

**2022 SEMI-ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

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

July 31, 2022

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This 2022 *Semi-Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Greene County Ash Pond* has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D), ADEM Admin. Code Ch. 335-13-15, and Part E of ADEM Administrative Order No. 18-097-GW, under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.

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7/31/2022

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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) 18-097-GW, this 2022 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 annual assessment groundwater monitoring activities at the Alabama Power Company Plant Greene County (Plant Greene County) Ash Pond and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(f), and Part E of AO No. 18-097-GW. Semi-annual assessment monitoring and associated reporting for the Plant Greene County Ash Pond (Site) is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

The CCR unit began the monitoring period in assessment monitoring pursuant to § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSIs) of Appendix III constituents over background were identified in the results of the first detection monitoring event and assessment monitoring was initiated in January 2018. Statistically significant levels (SSLs) of Appendix IV parameters above groundwater protection standards (GWPS) were identified while in assessment monitoring. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019 and completed on June 12, 2019 according to the requirements of § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and AO No.18-097-GW. The ACM was subsequently submitted to ADEM and posted to the site's CCR compliance web site. A public meeting to discuss the ACM was held on June 29, 2020.

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

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

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

SSLs of Appendix IV parameters arsenic, cobalt, and lithium were detected above GWPS during the first semi-annual monitoring event of 2022. The following summarizes results and activities conducted during the first semi-annual monitoring period of 2022:

- Collected soil and groundwater samples for treatability studies using Site aquifer media and impacted groundwater prior to field implementation of an injection treatment pilot study between February 16, 2022, and April 8, 2022. The treatability studies will evaluate the effectiveness of various treatment solutions and doses in removing constituents of interest (COIs) from impacted groundwater.
- Completed the first semi-annual assessment groundwater sampling event between March 21, 2022, and April 8, 2022. Additional groundwater samples were collected during the first semi-annual monitoring event for the proposed injection treatability studies.
- Pursuant to 40 CFR 257.90(e)(6), a Monitoring Period Summary table has been prepared to describe the status of groundwater monitoring and corrective action during the monitoring period for this report.

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

- Complete the installation, development, and sampling of two additional off-site delineation wells pending access agreement approval.
- Conduct batch testing to evaluate removal of COIs, and selection of the optimum reagents and doses for column tests.
- Conduct column testing to evaluate removal of COIs by mixing treatment reagents with site-specific impacted groundwater and applying to site-specific soils (aquifer solids) in columns; Appendix III and IV constituents will be measured in the column effluents to determine the reduction of COIs in groundwater, and to evaluate any unintended consequences of treatment (e.g., release of constituents from soils).

- Conduct selective sequential extraction of post-column (treated) soils to help determine the sequestration mechanisms and stability of the COIs and their host solids.
- After treatment, the post-column (treated) soils will be leached with upgradient (background) groundwater from the respective plant in additional column studies, to help assess long-term stability of the COIs and their host solids.
- Prepare Class V UIC permit.
- Conduct the second semi-annual assessment monitoring event in the fall of 2022 and submit the annual groundwater monitoring and corrective action report summarizing the findings to ADEM by January 31, 2023.

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

Assessment Monitoring Initiated: January 15, 2018
 Monitoring Period: January 1 - July 31, 2022
 Beginning Status: Corrective Action
 Ending Status: Corrective Action

Statistical Analysis Results *

Appendix III SSIs

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

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Parameter	Wells
Arsenic	GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18
Cobalt	GC-AP-MW-1, GC-AP-MW-14, GC-AP-MW-15
Lithium	GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21

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

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

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

Groundwater Remedy

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

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ABBREVIATIONS

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

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

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-097-GW, this 2022 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 semi-annual assessment groundwater monitoring activities at the Plant Greene County Ash Pond and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(f), and Part E of AO 18-097-GW. Semi-annual assessment monitoring and associated reporting for Plant Greene County Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

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

2.0 MONITORING PROGRAM STATUS

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

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

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

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

3.0 SITE LOCATION AND DESCRIPTION

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

3.1 PHYSICAL SETTING

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

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

3.2 SITE GEOLOGY AND HYDROGEOLOGY

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

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

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

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

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

3.2.1 Uppermost Aquifer

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

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

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

3.2.2 Flow Interpretation

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

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

A natural topographic high southwest of the pond provides a localized mound where groundwater elevations are higher than neighboring monitoring wells. From this topographic high, groundwater flow may be radial to semi-radial, depending on if conditions develop: (1) northeast flow toward the ash pond or (2) no flow between the topographic high and southwest corner of the ash pond. Potentiometric surface maps are presented in **Section 4.1**.

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

3.3 GROUNDWATER MONITORING SYSTEM

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

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

3.3.1 Monitoring Wells

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

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

3.3.1.1 Upgradient Wells

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

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

3.3.1.2 Downgradient Wells

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

3.3.1.3 Delineation Well Installation

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

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

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

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

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

Delineation wells are identified on **Figure 5** and detailed on **Table 1b**. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

3.3.1.4 Piezometers

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

3.3.1.5 Monitoring Well Replacement and Abandonment

No monitoring well replacements and/or abandonments were conducted during the reporting period. **Table 1d Abandoned Well Network Details** provides the monitoring well details for previously abandoned wells.

3.4 GROUNDWATER MONITORING HISTORY

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

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

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

3.4.1 Available Monitoring Data

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

3.4.2 Historical Groundwater Flow

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

3.4.3 Monitoring Variances

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

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

3.5 GROUNDWATER SAMPLING AND ANALYSIS

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

During routine semi-annual monitoring events, all compliance and delineation network wells are sampled and analyzed for Appendix III and Appendix IV constituents. Additional general chemistry constituents (major ions and anions) are now being collected routinely as well. These non-compliance parameters will be periodically analyzed to explore seasonal or closure-related changes to geochemical facies to site groundwater.

The following subsections summarize the sequential steps and process for the sampling, handling/transport, and analysis of compliance-related groundwater samples at the site.

3.5.1 Groundwater Sample Collection

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

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

- 0.2 standard units for pH.
- 5% for specific conductance.
- 0.2 Mg/L or 10% for DO > 0.5 mg/l (whichever is greater).

- Turbidity measurements less than 10 NTU.
- Temperature and ORP – record only, no stabilization criteria.

During purging and sampling, an In-Situ Aqua Troll instrument was used to monitor and record field parameters. Once stabilization was achieved, samples were collected and submitted to the laboratory following standard chain-of-custody (COC) protocol. Field data recorded in support of groundwater sampling activities for the monitoring events are included in **Appendix C, Laboratory and Field Records**.

3.5.2 Sample Preservation and Handling

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

3.5.3 Chain of Custody

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

3.5.4 Laboratory Analysis

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

3.5.5 Monitoring Period Sampling Events Summary

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f), the following describes monitoring-related activities performed during the monitoring period. The first semi-annual assessment monitoring event took place between March 22, 2022, and April 8, 2022. Additionally, a re-sampling event was conducted on May 17, 2022, due to the observation of a potential outlier for selenium in the results for well GC-AP-MW-13.

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

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

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

4.0 GROUNDWATER ELEVATIONS AND FLOW

During the March-April 2022 sampling event, depths to water ranged from 5.04 to 30.92 feet below top of casing (ft BTOC) and groundwater elevations ranged from 94.54 to 76.61 feet above mean seal level (ft MSL). **Figure 6, Potentiometric Surface Contour Map (March 22, 2022)** depicts groundwater elevations and inferred groundwater flow direction during the first semi-annual sampling event of 2022.

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

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

Notable changes to groundwater elevations have been noted. Groundwater elevations in multiple well locations were identified as potential lowerbound outliers based upon historical groundwater elevation data and screening with Interquartile Range (1.5 x IQR) statistics. The installation of the northern section of the slurry wall, implemented as a key aspect of ash pond closure and source control, appears to have significantly reduced groundwater elevations in GN-AP-MW-2, GN-AP-MW-3, and GN-AP-MW-6. A reduction in groundwater elevation has been noted to start in August 2020 and March 2021 – close to the completion date of the slurry wall section (July 2020).

In addition, groundwater elevations have decreased in downgradient compliance wells since the cease receipt date and initiation of closure activities. This pattern is chiefly observed immediately north, west, and south of ash pond boundaries. Wells along the eastern waste boundary have shown little change to date. Groundwater elevations are an average of 2.07 feet lower in compliance wells GC-AP-MW-1 through GC-AP-MW-14 when comparing historical data to data gathered after March 2019. Conversely, upgradient wells to the east of the barge canal have shown an increase in average groundwater elevation of around 2.5 to 3-ft between the same time periods. This data indicates that closure activities have lowered groundwater

elevations which signifies (1) that groundwater elevations are returning to more normal conditions and (2) some degree of source control.

Well	Lowerbound GW Elevation Threshold (IQR)	GW Elevation 3/22/2022	Distance below Lowerbound GW Elevation
GC-AP-MW-2	95.37	92.32	-3.05
GC-AP-MW-3	95.92	92.39	-3.53
GC-AP-MW-6	92.67	90.84	-1.83

4.1 GROUNDWATER FLOW VELOCITY CALCULATIONS

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

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

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

Where:

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

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

i = Horizontal hydraulic gradient

n_e = Effective porosity

Appendix D presents the estimated horizontal flow velocity calculated using groundwater elevation data from the first semi-annual sampling event in 2022.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

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

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

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

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

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where RPD is below 20%, the difference is considered acceptable, and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4A, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during the first semi-annual monitoring event of 2022. All RPDs were below 20% for the first 2022 semi-annual sampling event, with the exception of fluoride, in parent-duplicate pair GC-AP-MW-45H/GC-AP-MW-45H DUP. A qualifier was not needed because the results were less than five times the RL and the difference between the parent and duplicate results was less than the RL value.

Analytical data reviewed provided low-level or trace detections in field and or equipment blanks during the monitoring period sampling events. **Table 4B, Field QC: Blank Detections** provides a summary of low-level detections observed during the first semi-annual monitoring event. Each of these detections were estimated concentrations, above the MDL but below the RL, and qualified in the laboratory analytical reports with “J flags.” However, if concentrations are detected above the MDL in field QC samples, original results on the (1) date of a blank detection and (2) with a value less than 5 times the field QC detection are flagged with a (+) U* and MDL/RL values modified based upon the blank concentration.

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

5.2 STATISTICAL METHODOLOGY AND TESTS

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

5.2.1 Appendix III Evaluation

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

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

The following adjustments were made:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in the background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data
- Non-parametric prediction limits are used on data containing greater than 50% non-detects.

5.2.2 Appendix IV Evaluation

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

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

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

- (1) The maximum contaminant level (MCL) established under 40 CFR § 141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L.
 - (ii) Lead 0.015 mg/L.
 - (iii) Lithium 0.040 mg/L.

(iv) Molybdenum 0.100 mg/L.

- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

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

5.3 STATISTICAL EXCEEDANCES

Analytical data from the first semi-annual monitoring events in March-April 2022 were statistically analyzed in accordance with the professional engineer (PE)-certified Statistical Analysis Plan (October 2017 and revised in August 2020) by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents had returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

5.3.1 Appendix III Constituents

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

5.3.2 Appendix IV Constituents

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

Statistical analysis of Appendix IV data identified the following statistically significant levels (SSLs) over GWPS at the listed wells during the first semi-annual monitoring event of 2022:

- GC-AP-MW-1: Arsenic, Cobalt.
- GC-AP-MW-5: Arsenic, Lithium.
- GC-AP-MW-10: Arsenic, Lithium.
- GC-AP-MW-11: Lithium.
- GC-AP-MW-12: Lithium.
- GC-AP-MW-13: Lithium.

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

Table 6, First Semi-Annual Monitoring Event Analytical Summary provides a summary of all detected constituents for the first semi-annual sampling event.

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

5.3.2.1 Delineation Wells

Limited groundwater analytical data are available for delineation wells installed at the site in 2019, 2020, and 2021. Analytical data derived from delineation wells are not statistically analyzed. A review of analytical data from delineation wells identified concentrations over GWPS for the following well and analyte pairs during the first semi-annual sampling event of 2022:

- GC-AP-MW-37H: Arsenic, Cobalt.
- GC-AP-MW-39H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-40H: Lithium.
- GC-AP-MW-41H: Cobalt, Lithium.
- GC-AP-MW-42H: Cobalt.
- GC-AP-MW-43H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-44H: Cobalt.
- GC-AP-MW-45H: Lithium.
- GC-AP-MW-46HO: Lithium.
- GC-AP-MW-47HO: Lithium.
- GC-AP-MW-48H: Lithium.
- GC-AP-MW-49H: Lithium.

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

Details regarding the installation and sampling of these wells, and future proposed actions as a result of these exceedances, were submitted to ADEM in a Groundwater Investigation Report on May 13, 2019 and subsequent updates in September 2019, March 2020, and September 2020.

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

6.0 GROUNDWATER ASSESSMENT AND CORRECTIVE ACTION

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

A comprehensive groundwater delineation report summarizing findings was submitted to ADEM in September 2020. The conclusions and results presented indicated that groundwater delineation had been completed to a sufficient degree to define spatial extent of groundwater impacts and to inform a groundwater remedy selection plan. However, following a review of the March 2021 groundwater sampling event analytical data, it was determined that additional off-site delineation (Phase III) was necessary to further delineate the horizontal extent of groundwater impacts northwest, west, southwest, and south of the property boundary.

6.1 CHRONOLOGY OF DELINEATION ACTIVITIES

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

6.1.1 Delineation Wells

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

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

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

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

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

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

- Completed semi-annual assessment groundwater sampling event between September 9, 2019 and September 13, 2019.
- Submitted a semi-annual progress report to the department on September 30, 2019.

- Installed 7 additional on-site horizontal delineation wells located adjacent to the north and northwest property boundaries (GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-56H, and GN-AP-MW-57H) and the south and southwest property boundaries (GC-AP-MW-45H, GC-AP-MW-48H, and GC-AP-MW-49H) between December 5, 2019 and December 17, 2019.
- Developed all 7 additional on-site horizontal delineation wells between December 10, 2019 and December 11, 2019.
- Sampled the 7 additional on-site horizontal delineation wells between December 16, 2019 and December 17, 2019.
- Provided the Department with a response on December 30, 2019 to the ADEM letter of November 14, 2019, Responding to CCR Documents Submitted to the Department.
- Submitted the 2019 Annual Groundwater Monitoring and Corrective Action Report to the Department on January 31, 2020. The report identified wells that suggested additional investigation of adjacent properties was necessary to determine whether a plume of Appendix IV constituents may statistically exceed groundwater protection standards on that property.
- Submitted a semi-annual progress report to the department on March 30, 2020.
- Completed semi-annual assessment groundwater sampling event between April 20, 2020 and May 1, 2020.
- Installed four additional off-site horizontal delineation wells between May 12, 2020 and May 17, 2020. Horizontal delineation wells GC-AP-MW-47HO and GC-AP-MW-50HO were installed south and southwest of the property boundary. Horizontal delineation wells GC-AP-MW-59HO and GC-AP-MW-55HO were installed west and northwest of the property boundary.
- Developed and sampled off-site delineation wells, GC-AP-MW-47HO, GC-AP-MW-50HO GC-AP-MW-55HO, and GC-AP-MW-59HO between May 26, 2020 and May 28, 2020.
- Installed two additional off-site horizontal delineation wells between June 9, 2020 and June 15, 2020. Horizontal delineation wells GC-AP-MW-46HO and GC-AP-MW-52HO were installed south and west of the property boundaries respectively.
- Developed and sampled off-site delineation wells, GC-AP-MW-46HO and GC-AP-MW-52HO were successfully between June 25, 2020 and July 6, 2020. Analytical data is included in **Appendix B**.

- Submitted the 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report to the Department on July 31, 2020.
- Completed semi-annual assessment groundwater sampling event between August 10, 2020 and August 21, 2020 and submitted data in 2020 Annual Groundwater Monitoring and Corrective Action Report to the Department on January 31, 2021.

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

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

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

- Submitted the 2020 Annual Groundwater Monitoring and Corrective Action Report to the Department on January 31, 2021.
- Completed the first semi-annual assessment groundwater sampling event between March 8, 2021 and March 18, 2021.
- Installed five additional Phase III off-site horizontal delineation between June 1, 2021 and June 9, 2021. Horizontal delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed northwest of the property boundary and horizontal delineation wells GC-AP-MW-62HO, GC-AP-MW-63HO and GC-AP-MW-64HO were installed southwest and south of the property boundary.
- Submitted the Semi-Annual Remedy Selection and Design Progress Report on June 14, 2021.
- Completed the development, and sampling of five Phase III off-site delineation wells to further characterize spatial extent of potential impacts to groundwater from the CCR Unit on June 30, 2021.

6.2 NATURE AND ESTIMATED QUANTITY OF RELEASE

Part B of the Order requires collecting data on the nature and estimated quantity of material released. To collect data regarding the nature of the source and estimated quantity of material released leachability testing of 8 ash samples and sampling of ash pore-water at 3 locations was conducted. Leachability testing was conducted for EPA Resource and Recovery Act (RCRA) heavy metals, while ash pore-water was sampled for all EPA Appendix III and IV constituents. Groundwater quality data is compared to source water and leachate composition to provide a basis for evaluating the degree to which the source area has contributed constituents to groundwater.

6.3 DISCUSSION OF DELINEATION RESULTS

Analytical results identified concentrations above GWPS of EPA Appendix IV constituents: arsenic, cobalt, and lithium from onsite horizontal delineation wells and cobalt and lithium from offsite horizontal delineation wells during the first semi-annual monitoring period of 2022.

Arsenic concentrations above GWPS were not detected in any of the off-site horizontal delineation wells. Arsenic concentrations above GWPS were detected in five onsite horizontal delineation wells; GC-AP-MW-37H, GC-AP-MW-39H, GC-AP-MW-43H, GC-AP-MW-53H, and GC-AP-MW-54H. **Figure 7A, Arsenic Isoconcentration Map** illustrates the horizontal extent of arsenic impacts to groundwater.

Cobalt concentrations above GWPS were detected in nine onsite horizontal delineation wells; GC-AP-PZ-4, GC-AP-MW-37H, GC-AP-MW-39H, GC-AP-MW-41H, GC-AP-MW-42H, GC-AP-MW-43H, GC-AP-MW-44H, GC-AP-MW-54H, and GC-AP-MW-57H and one off-site horizontal delineation well GC-AP-MW-59HO. **Figure 7B, Cobalt Isoconcentration Map** illustrates the horizontal extent of cobalt impacts to groundwater.

Lithium concentrations above GWPS were detected in eight onsite horizontal delineation wells; GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, GC-AP-MW-43H, GC-AP-MW-45H, GC-AP-MW-48H, GC-AP-MW-49H, and GC-AP-MW-54H and four off-site horizontal delineation well GC-AP-MW-46HO, GC-AP-MW-47HO, GC-AP-MW-50HO, and GC-AP-MW-64HO. **Figure 7C, Lithium Isoconcentration Map** illustrates the horizontal extent of lithium impacts to groundwater.

Wells configured specifically for vertical delineation are not required at the site as the uppermost aquifer is confined at its base by 250 feet of low permeability chalk (10^{-8} cm/s) and the thickness of the aquifer is thin (10 to 30 feet). The Demopolis Chalk is encountered beneath the uppermost aquifer and provides a lower

confining unit. Vertical hydraulic conductivity (K_z) values obtained from two Shelby tube permeameter tests provide values of 5.0×10^{-8} cm/sec and 1.4×10^{-8} cm/sec (1.42×10^{-4} ft/d to 3.97×10^{-5} ft/d) for Unit 3 chalks.

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

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

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

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

As shown on **Table 1B**, 28 delineation wells have been installed at the site to assess potential impacts and one previously existing piezometer (GC-AP-PZ-4) redesignated for delineation. Additionally, one delineation well (GC-AP-MW-56H) was installed but did not produce sufficient groundwater yield to sample and was abandoned (**Table 1D**).

6.3.1 Arsenic Delineation

As shown on **Figure 7A, Arsenic Isoconcentration Map**, arsenic impacts to groundwater can be divided into two spatial zones: (1) a northern zone and (2) a central zone. The northern zone encompasses wells

GC-AP-MW-1, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-53H, and GC-AP-MW-54H. Arsenic is delineated onsite to the north as defined by delineation wells GC-AP-MW-44H, GC-AP-PZ-4, and GC-AP-MW-34HA and to the north/northeast as defined by delineation wells GC-AP-MW-35H and GC-AP-MW-36H and upgradient wells GC-AP-MW-23 and GC-AP-MW-24. Arsenic is delineated to the northwest by delineation well GC-AP-MW-57H, off-site delineation wells GC-AP-MW-55HO, GC-AP-MW-59HO, GC-AP-MW-60HO and GC-AP-MW-61HO, and downgradient wells GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33. Additionally, compliance well GC-AP-MW-3 exhibited an arsenic concentration at the GWPS (0.01 mg/L) during the first 2022 semi-annual sampling event.

The central zone includes two wells GC-AP-MW-10 and GC-AP-MW-43H to the west, two wells GC-AP-MW-14 and GC-AP-MW-39H to the southeast and four wells GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, and GC-AP-MW-37H to the east. Arsenic is delineated to the west as defined by delineation wells GC-AP-MW-52HO and GC-AP-MW-50HO. The installation of two additional off-site delineation wells to confirm delineation west of the property boundary is pending an access agreement with the landowner.

Additionally, compliance well GC-AP-MW-9 exhibited arsenic concentrations below GWPS during the first 2022 semi-annual sampling event (0.00316 mg/L) and the second semi-annual 2021 sampling event (0.00695 mg/L). Arsenic is delineated to the southeast as defined by delineation wells GC-AP-MW-40H and GC-AP-MW-41H and downgradient well GC-AP-MW-15. Arsenic is delineated to the east as defined by the upgradient wells located on the other side of the barge canal as determined by the potentiometric surface contour map (**Figure 6**).

6.3.2 Cobalt Delineation

As shown of **Figure 7B, Cobalt Isoconcentration Map**, cobalt concentrations display significant variations from well to well. However, like arsenic exceedances discussed above, cobalt exceedances can roughly be grouped into two similar spatial zones: northern and central. Only one off-site delineation well located northwest of the property boundary (GC-AP-MW-59HO) exhibited a concentration above GWPS. Phase III off-site delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed to further characterize spatial extent of potential impacts to groundwater from the CCR Unit to the northwest. Cobalt concentrations continue to be below GWPS in delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO.

The northern zone includes compliance wells GC-AP-MW-1 and GC-AP-MW-2 and delineation well GC-AP-PZ-4. Only one compliance well in this area (GC-AP-MW-1) was recorded as an SSL. However,

compliance well GC-AP-MW-2 has exhibited cobalt concentrations above the GWPS during recent sampling events but has not been recorded as an SSL. The remaining wells with cobalt exceedances above GWPS are located to the northwest and include horizontal delineation wells GC-AP-MW-44H, GC-AP-MW-54H, and GC-AP-MW-57H and off-site delineation well GC-AP-MW-59HO.

Cobalt is delineated to the north/northeast as defined by off-site delineation well GC-AP-MW-55HO, delineation wells C-AP-MW-35H and GC-AP-MW-36H, and upgradient wells GC-AP-MW-23 and GC-AP-MW-24. Cobalt is delineated to the northwest as defined by delineation wells GC-AP-MW-34HA, GC-AP-MW-60HO, and GC-AP-MW-61HO, and downgradient wells GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33.

The west central zone of cobalt exceedances include compliance wells GC-AP-MW-9, GC-AP-MW-10, and on-site delineation wells GC-AP-MW-42H and GC-AP-MW-43H. The east central zone of cobalt exceedances include compliance well GC-AP-MW-18 and delineation well GC-AP-MW-37H. and GC-AP-MW-39H to the east/southeast. The southeast central zone of cobalt exceedances include compliance wells GC-AP-MW-14, GC-AP-MW-15, and delineation well GC-AP-MW-39H. Compliance wells GC-AP-MW-14 and GC-AP-MW-15 were recorded as SSLs. Cobalt concentrations in compliance well GC-AP-MW-11 historically exceeded GWPS and were recorded as SSLs. However, the cobalt concentration was below GWPS during the first 2022 semi-annual sampling event and is no longer an SSL. Compliance wells GC-AP-MW-9, GC-AP-MW-10, and GC-AP-MW-18 have exhibited cobalt concentrations above the GWPS during the first 2022 semi-annual sampling event but were not recorded SSLs.

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

6.3.3 Lithium Delineation

As shown of **Figure 7C, Lithium Isoconcentration Map**, lithium concentrations exceeding the GWPS are mainly concentrated to the central and southern areas of the pond and adjacent areas. To the northwest, lithium was detected above the GWPS in two wells GC-AP-MW-5 and GC-AP-MW-54H. Compliance

well BY-AP-MW-6 exhibited a lithium concentration below the GWPS during the three most recent sampling events. Historically, lithium concentrations in GC-AP-MW-6 have been below GWPS only exceeding GWPS three of seventeen sampling events. Lithium is delineated to the northwest on-site by compliance well BY-AP-MW-6, GC-AP-MW-7, and delineation wells GC-AP-MW-57H and GC-AP-MW-44H and off-site by delineation wells GC-AP-MW-59HO, GC-AP-MW-60HO and GC-AP-MW-61HO, and downgradient wells GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33.

To the west, lithium was detected above the GWPS in wells GC-AP-MW-10 and GC-AP-MW-43H. Compliance well GC-AP-MW-9 exhibited lithium concentrations below the GWPS during the last two sampling events in March-April 2022 and August 2021. Lithium is delineated to the west as defined by onsite compliance wells GC-AP-MW-7, GC-AP-MW-8, and delineation well GC-AP-MW-42H and off-site delineation well GC-AP-MW-52HO. Two additional off-site delineation wells located to the west of the property boundary and delineation well GC-AP-MW-43H are pending access agreements with the landowner.

To the south/southwest, lithium was detected onsite above the GWPS in wells GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-21, GC-AP-MW-48H, and GC-AP-MW-49H. Lithium was detected above GWPS in off-site delineation wells GC-AP-MW-46HO, GC-AP-MW-47HO, GC-AP-MW-50HO, and GC-AP-MW-64HO. Lithium has been delineated to the southwest with the installation of two additional Phase III delineation wells GC-AP-MW-62HO and GC-AP-MW-63HO in June of 2021. A review of analytical data from delineation wells GC-AP-MW-62HO and GC-AP-MW-63HO indicated lithium concentrations have been non-detect during the June 2021, August 2021, and March 2022 sampling events. Phase III off-site delineation well, GC-AP-MW-64HO, was installed south of the property boundary along the Black Warrior River. Lithium was detected above the GWPS in delineation well GC-AP-MW-64HO during June 2021, August 2021, and March 2022 sampling events. The assumption is that this extends in the direction of prevailing groundwater flow for assessment of corrective measures.

To the east/southeast, lithium was detected onsite above the GWPS in compliance wells GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-18 and delineation wells GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, and GC-AP-MW-45H. Delineation wells GC-AP-MW-37H, GC-AP-MW-38H, GC-AP-MW-39H, GC-AP-MW-40H, were installed to laterally delineate groundwater impacts to the barge canal boundary and to the southeast GC-AP-MW-41H and GC-AP-MW-45H were installed downgradient proximal to the property boundary, the Black Warrior River. Lithium is below GWPS in delineation wells GC-AP-MW-37H and GC-AP-MW-38H along the northern end of the barge canal. Lithium exceedances extend to the southern end of the barge canal and to the

southeast of the property boundary with the Black Warrior River. However, delineation has been completed to the extent feasible as locations on the other side of the barge canal are upgradient of the Site as determined by potentiometric surface contour maps (**Figures 6**). Lithium concentrations in delineation wells GC-AP-MW-41H and GC-AP-MW-45H exceeded the GWPS, the assumption is that this extends in the direction of prevailing groundwater flow for assessment of corrective measures.

6.4 STATUS OF DELINEATION

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

A comprehensive groundwater delineation report summarizing findings was submitted to ADEM in September 2020. The conclusions and results presented indicated that groundwater delineation had been completed to a sufficient degree to define spatial extent of groundwater impacts and to inform a groundwater remedy selection plan. However, following a review of the March 2021 groundwater sampling event analytical data, it was determined that additional off-site delineation (Phase III) was necessary to further delineate the horizontal extent of groundwater impacts northwest, west, southwest, and south of the property boundary. Off-site access agreements were reached with two of the adjacent landowners and five additional delineation wells were installed and sampled between June 9, 2021 and June 30, 2021. An off-site access agreement with the third adjacent landowner is pending and two additional delineation wells are proposed to complete delineation to the west of the property boundary. Analytical results from the completed Phase III off-site delineation wells have confirmed groundwater delineation is completed to the northwest, southwest, and south of the property boundaries.

6.5 GROUNDWATER REMEDY AND CORRECTIVE ACTION

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

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

6.5.1 Groundwater Remedy Selection

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

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

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

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

6.5.2 Corrective Action – Groundwater Monitoring Program

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

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

Stage 1

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

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

Implementation of Monitored Natural Attenuation

MNA sampling parameters were added to the sampling plans and analyzed in the laboratory during the March 2022 sampling event (Table 6). These parameters in addition to field parameters, Appendix III, and Appendix IV parameters are utilized to study the processes that govern or facilitate MNA as well as changes in geochemical conditions. Parameters will be included into the site geochemical model.

Geochemical Injection Pilot Testing Program

Laboratory treatability studies using Site aquifer media and impacted groundwater to evaluate reagent composition, dosing, effectiveness, and sequencing (if applicable) for in situ groundwater treatment of COIs via injection is currently being conducted. The Laboratory Treatability Study Work Plan is presented in **Appendix F**. Treatability tests include the following tasks and procedures prior to field implementation of an injection treatment pilot study.

- Selection and formulation of reagent solutions based on previous similar studies.
- Batch testing using multiple treatment solutions to determine the most effective formulations to carry forward to column testing.
- Column testing to better simulate field conditions, determine effectiveness, and evaluate potential release of COIs due to treatment (unintended consequences).
- Post-column testing, using selective sequential extraction, on treated soils to determine the long-term stability of the accumulated COIs.
- Results from the treatability studies would be incorporated into an Underground Injection Control permit application to be submitted to ADEM for approval prior to field implementation of an injection treatment pilot study.

The tentative schedule for this initial foundation phase is outlined as:

- Aquifer solids (soils) and groundwater sample collection from the selected pilot test areas – First and Second quarters of 2022 (completed).
- Laboratory batch and column testing, and selective sequential extraction of treated soil – Third and Fourth quarters of 2022 (in progress).
- Underground Injection Permit application – First or Second quarter 2023.
- Geochemical Injection Pilot Program – TBD, pending requisite documents and approvals supporting the injection program.

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

AquaTROLL instrumentation will be installed during the 4th quarter of 2022 (pending supply chain issues) at the following monitoring locations:

- GC-AP-MW-1
- GC-AP-MW-10
- GC-AP-MW-11
- GC-AP-MW-14
- GC-AP-MW-16
- GC-AP-MW-39H
- GC-AP-MW-44H
- GC-AP-PZ-4

6.5.3 Groundwater Quality Changes and Trends

As described in **Section 4.0**, groundwater elevations west of a line from GC-AP-MW-1 through GC-AP-MW-14 have declined (~2-ft on average) in response to ash pond closure activities and with greater declines shown in select wells downgradient of the installed northern section of the slurry wall. This likely indicates that groundwater conditions are beginning to reflect change to more natural conditions.

During this period, pH values should decrease to a range more reflective of meteoric waters. In general, this trend may be occurring as pH values have shown a small decreasing trend since 2018. Average pH values from compliance boundary wells have decreased from 6.35 SU (2018) to 6.12 SU during the first sampling event of 2022. The exception appears to be wells GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-18 which are showing no or slightly increasing pH values – which agrees with observations of little or no changes in groundwater elevations.

Changes in pH, and other field parameters, can be drivers for changing concentrations in parameters such as cobalt and arsenic. Important groundwater quality changes or trends have been noted in **Section 6.3**. The key findings include:

- Compliance well GN-AP-MW-9 exhibited arsenic concentrations below GWPS during the two most recent sampling events (March 2022 and August 2021) and have exhibited a fairly sharp downward trend and reversal from a previously upward trend since March 2021. This overlaps with higher ORP values since August 2020, decreasing pH values, decreasing iron concentrations, and increasing sulfate.
- Compliance well GN-AP-MW-3 exhibited an arsenic concentration at the GWPS (0.01 mg/L) during the first 2022 semi-annual sampling event. Arsenic concentrations were above GWPS for the first time during the 2021 sampling events in March and August. Here arsenic correlates with increasing iron, increasing sulfate, decreasing conductivity, and initiated with a large pH oscillation.
- Delineation well GC-AP-MW-57H exhibited an arsenic concentration below GWPS for the first time during the March 2022 semi-annual sampling event. Here the decreasing arsenic trend correlates with decreasing pH, decreasing iron, decreasing sulfate, and increasing ORP.
- Compliance well GN-AP-MW-2 has exhibited cobalt concentrations above GWPS during the 2020, 2021, and first 2022 semi-annual sampling events but has not been recorded as an SSL. This increase correlates with an increase in conductivity and sulfate as well as shift to decreasing pH.
- Compliance well GC-AP-MW-11 exhibited a cobalt concentration below GWPS during the March 2022 semi-annual sampling event and is no longer a recorded SSL. Cobalt concentrations in well GC-AP-MW-11 appear related to oscillations in pH, ORP, and iron. Variability from event to event in well GC-AP-MW-11 shows greater range than many other Site wells.
- Compliance well GC-AP-MW-15 exhibited a cobalt concentration above GWPS during the March 2022 semi-annual sampling event and has been recorded as an SSL for the first time. The slight increase at this location appears primarily related to a small but similar increase in conductivity and decrease in DO. These trends began in late 2018 and 2019.
- Delineation well GC-AP-MW-53H exhibited a cobalt concentration below GWPS for the first time during the March 2022 semi-annual sampling event. This observation was noted as part of a decreasing trend starting with the second sampling event and is also marked by increasing DO,

ORP, and decreasing turbidity. Initially elevated cobalt at this location may have been influenced by temporary geochemical disequilibrium caused by the well installation process.

- Compliance well BY-AP-MW-6 exhibited a lithium concentration below the GWPS during the three most recent sampling events. Historically, lithium concentrations in GC-AP-MW-6 have been below GWPS only exceeding GWPS three of seventeen sampling events.
- Compliance well GN-AP-MW-9 exhibited a lithium concentration below the GWPS during the March 2022 sampling event as part of a downward trend that began in September 2019. This is similar to decreasing arsenic trend also observed at this well.

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

7.0 SUMMARY AND CONCLUSIONS

The first semi-annual assessment monitoring event was conducted in March and April 2022. Statistical evaluations of the assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. To address previously identified SSLs, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on September 30, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on December 29, 2021, for review.

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

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

- Complete the installation, development, and sampling of two additional off-site delineation wells pending access agreement approval.
- Conduct batch testing to evaluate removal of COIs, and selection of the optimum reagents and doses for column tests.
- Conduct column testing to evaluate removal of COIs by mixing treatment reagents with site-specific impacted groundwater and applying to site-specific soils (aquifer solids) in columns; Appendix III and IV constituents will be measured in the column effluents to determine the reduction of COIs in groundwater, and to evaluate any unintended consequences of treatment (e.g., release of constituents from soils).
- Conduct selective sequential extraction of post-column (treated) soils to help determine the sequestration mechanisms and stability of the COIs and their host solids.
- After treatment, the post-column (treated) soils will be leached with upgradient (background) groundwater from the respective plant in additional column studies, to help assess long-term stability of the COIs and their host solids.
- Prepare Class V UIC permit.

Plant Greene County Ash Pond
2022 Semi-Annual Groundwater Monitoring and Corrective Action Report

- Conduct the second semi-annual assessment monitoring event in the fall of 2022 and submit the annual groundwater monitoring and corrective action report summarizing the findings to ADEM by January 31, 2023.

8.0 REFERENCES

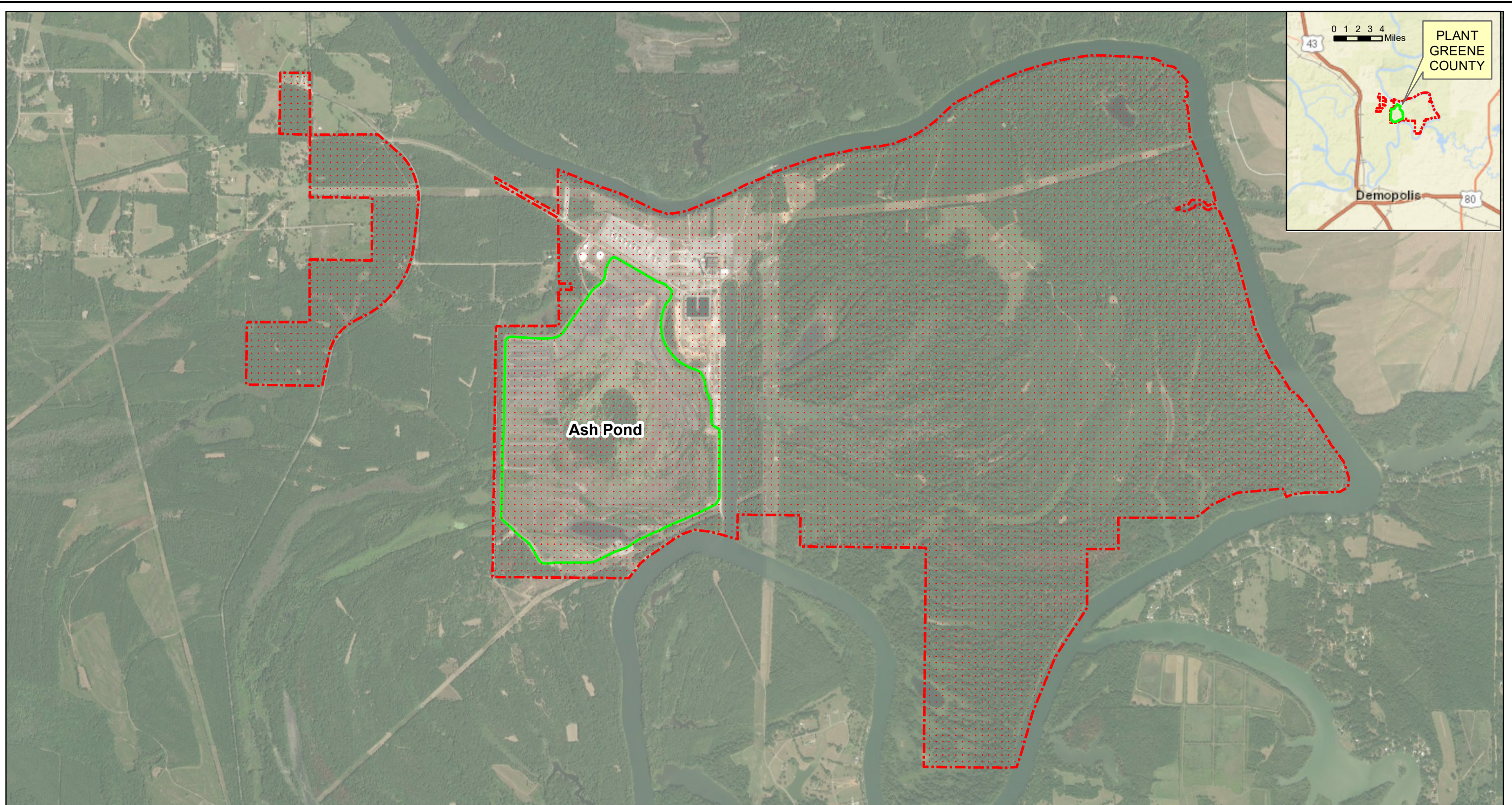
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Plant Greene County Ash Pond
2022 Semi-Annual Groundwater Monitoring and Corrective Action Report

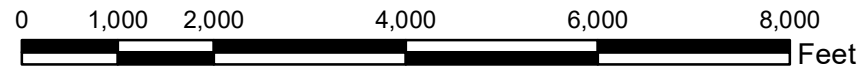
Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81. April.

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


Figures

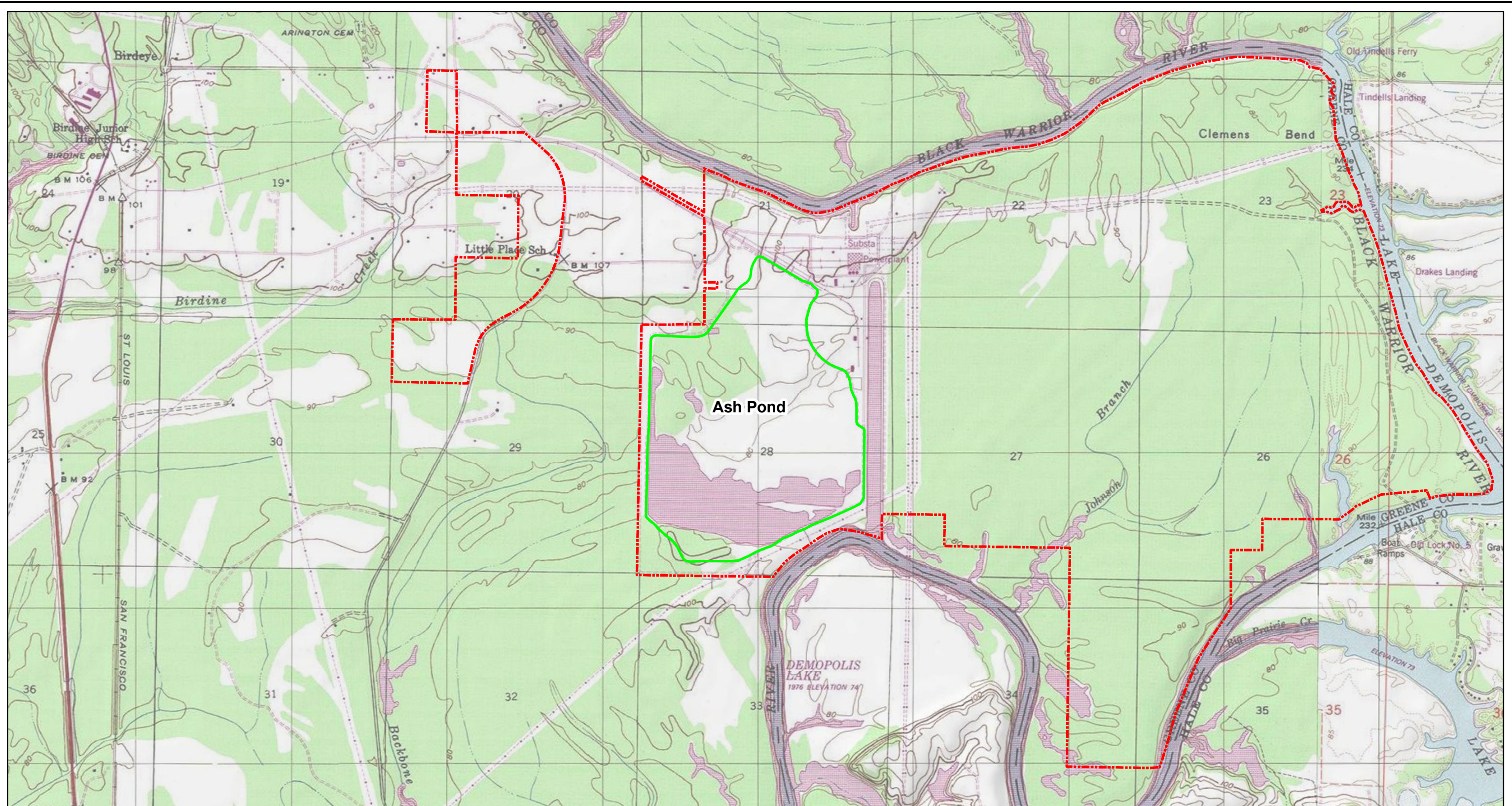


- Legend**
-  Property Boundary (Approximate)
 -  Ash Pond Boundary



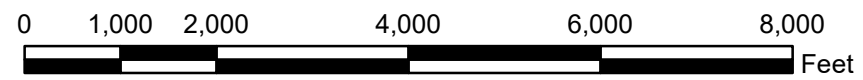
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DATE	10/28/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
SITE LOCATION MAP PLANT GREENE COUNTY ASH POND	
FIGURE NO	
FIGURE 1	



Legend

- Property Boundary (Approximate)
- Ash Pond Boundary



SCALE	1:24000
DATE	12/19/2019
DRAWN BY	KAR
CHECKED BY	GBD

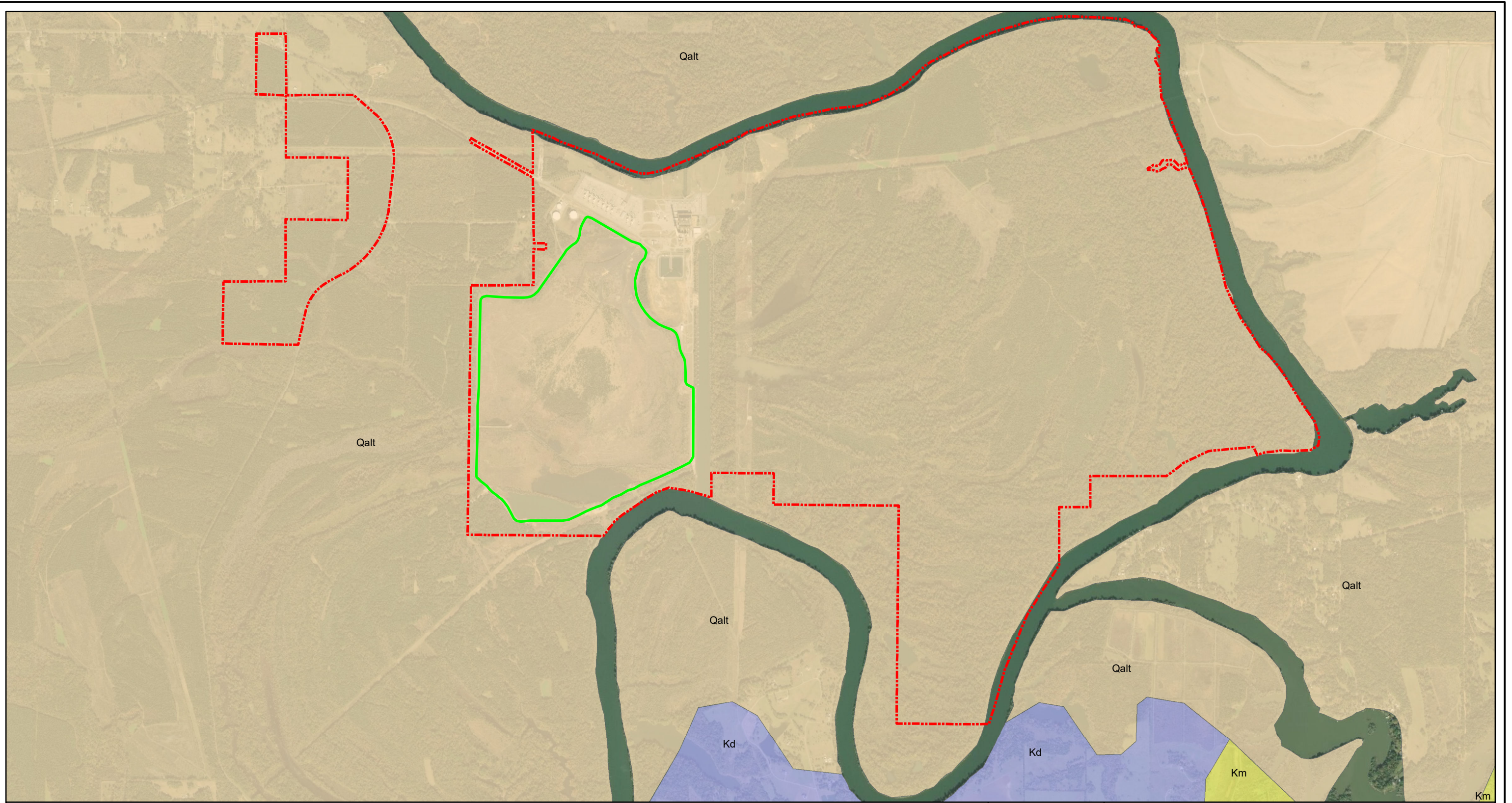
DRAWING TITLE

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

FIGURE NO

FIGURE 2

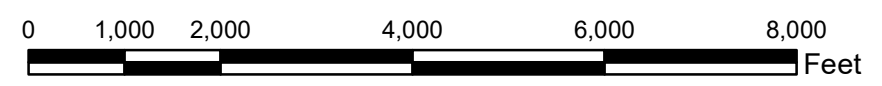




Legend

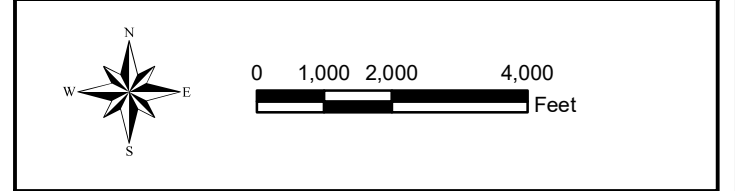
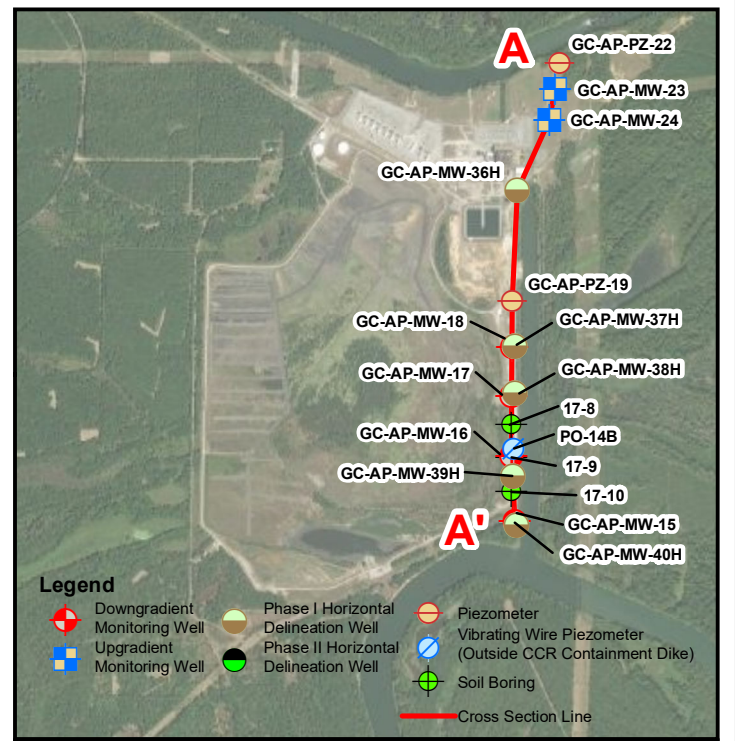
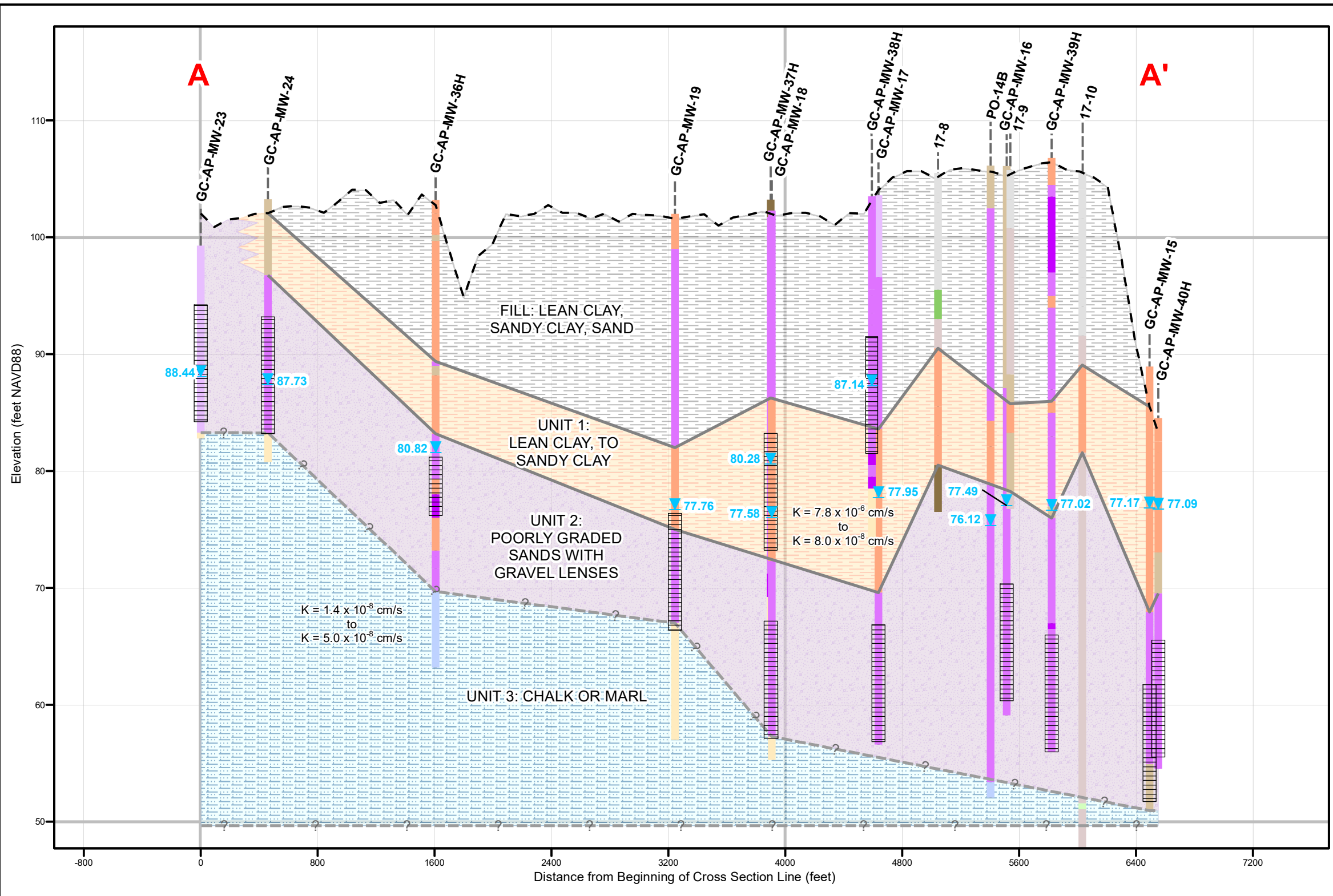
- ▭ Ash Pond Boundary
- - - Property Boundary (Approximate)

- Geologic Unit**
- ▭ Alluvial, coastal, and low terrace deposits (Qalt)
 - ▭ Demopolis Chalk (Kd)
 - ▭ Mooreville Chalk (Km)



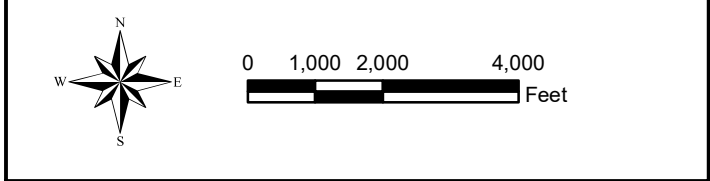
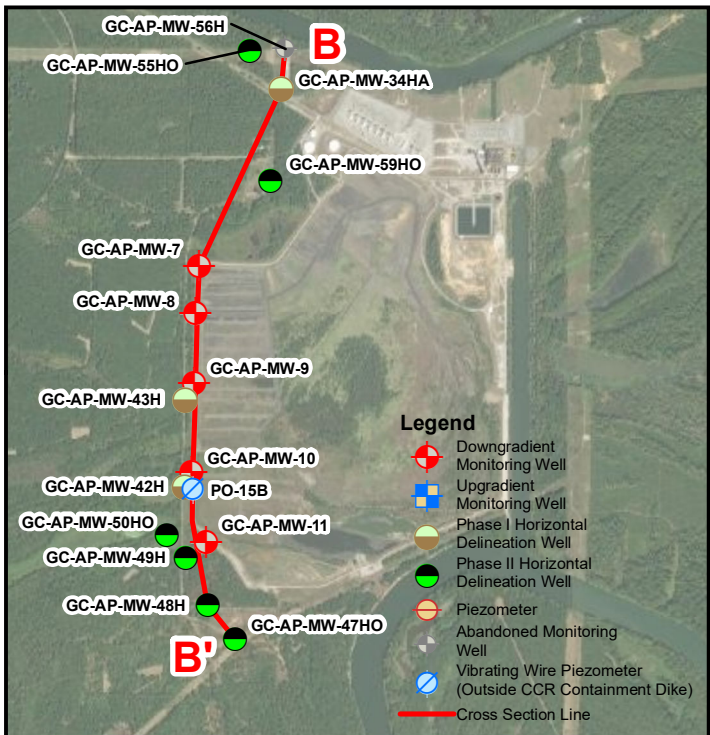
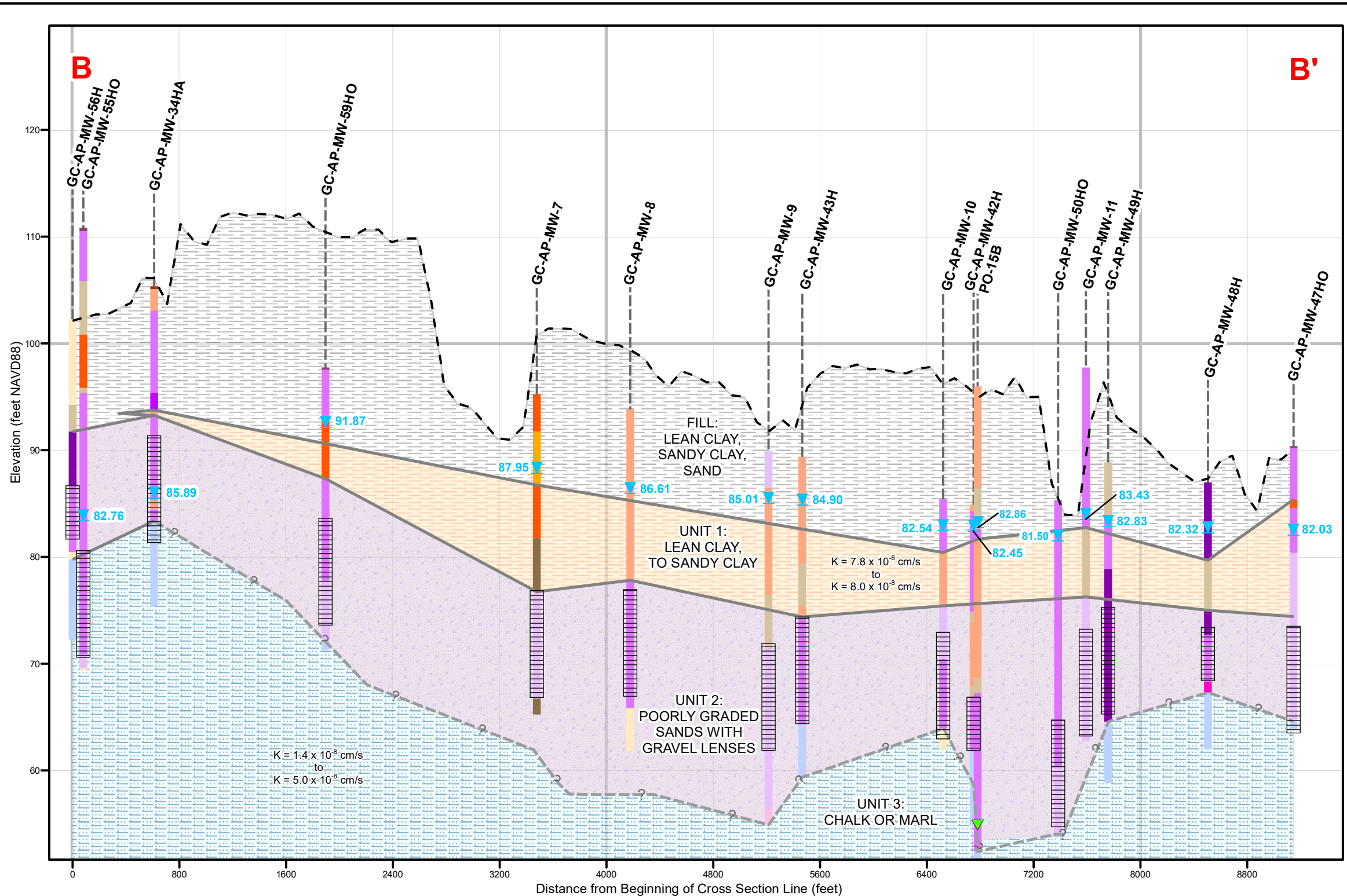
SCALE	1:24000
DATE	12/19/2019
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
SITE GEOLOGIC MAP PLANT GREENE COUNTY ASH POND	
FIGURE NO	FIGURE 3
Southern Company	



- Notes:
1. Source of ground surface elevation data: June 2020 Lidar and 2019 USGS 3DEP.
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on March 8, 2021.
 4. K = Hydraulic Conductivity.
 5. Vertical exaggeration = 80.
 6. Soil borings 17-8, 17-9, and 17-10 are utilized for soil characterization and were drilled on July 18, 2017 (17-10) and July 20, 2017 (17-8 and 17-9).
 7. Boring data from Vibrating Wire Piezometer (VWP) PO-14B were recorded on May 21, 2020, and the VWP was installed on September 24, 2020.

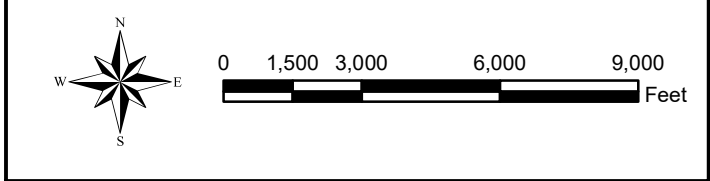
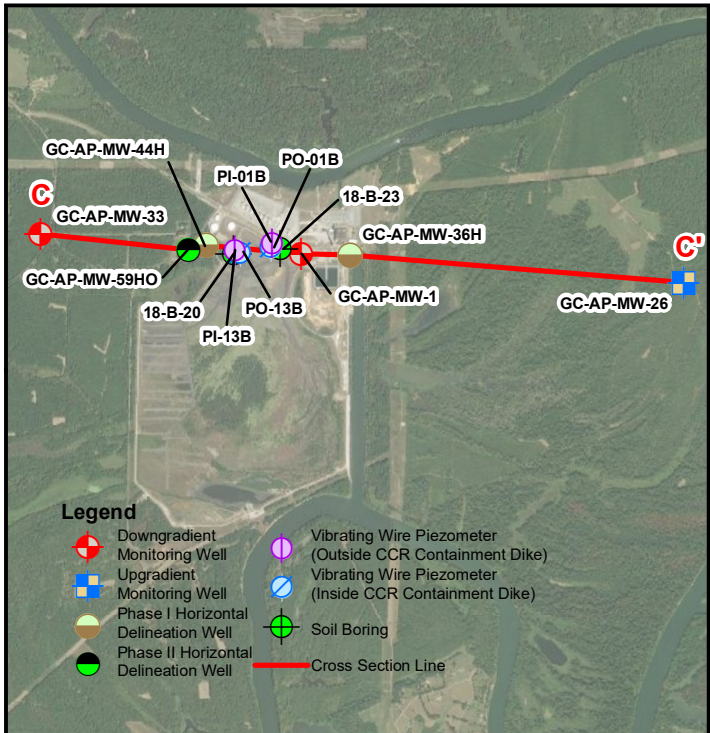
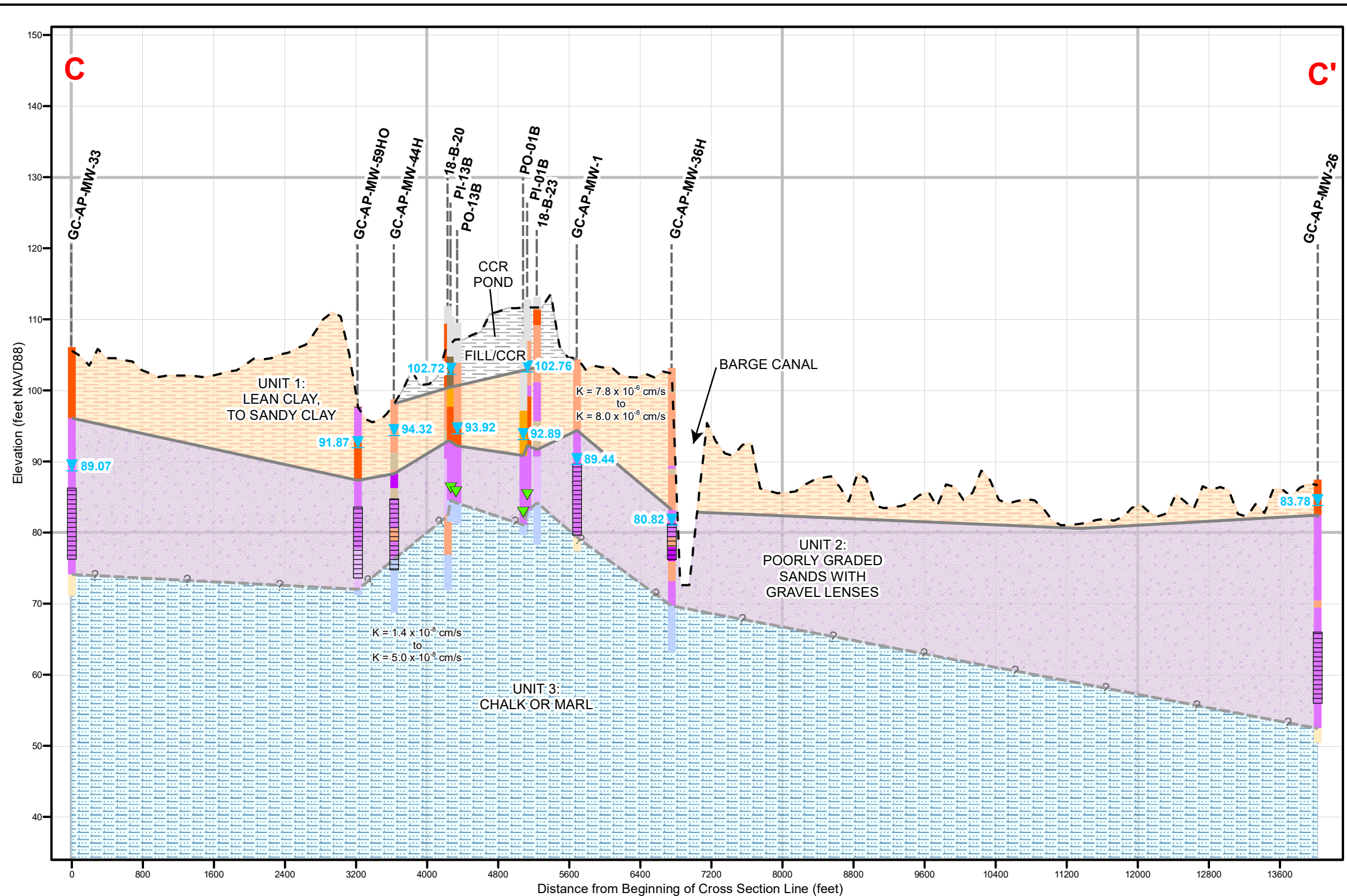
Legend		Borehole Description		Geologic Units		SCALE	DRAWING TITLE	
Groundwater Elevation	Well Location	Unit Boundary (inferred)	Fill	Sand	Fill: Lean Clay, Sandy Clay, Sand	As Shown	GEOLOGIC CROSS SECTION A - A' PLANT GREENE COUNTY ASH POND	
Ground Surface Elevation	Unit Boundary	Fat Clay	Well-graded Sand	Unit 1: Lean Clay to Sandy Clay	Unit 2: Poorly Graded Sands with Gravel Lenses	7/19/2021		
Screen Interval		Silt	Poorly-graded Sand	Unit 3: Chalk or Marl		DRAWN BY	FIGURE NO FIGURE 4A	
Vibrating Wire Piezometer Tip Elevation		Sandy Silt	Poorly-graded Sand with Clay			KWR		
		Clayey Sand	Chalk			CHECKED BY	Southern Company	
		Silty Sand				GBD		



- Notes:
1. Source of ground surface elevation data: June 2020 Lidar and 2019 USGS 3DEP.
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevation data were measured on March 8, 2021.
 4. The ground surface shown on the cross section was derived from a digital elevation model raster along the cross section line drawn as shown in the inset map. In addition to boring data from wells located directly on the cross section line, boring data from wells location near but not directly on the cross section line were also utilized for lithologic correlation. These well's boring data are projected onto the cross section line, and, as such, the ground surface shown on the cross section is higher in elevation than what the ground surface actually is at those locations.
 5. K = Hydraulic Conductivity.
 6. MW-56H was abandoned on May 16, 2020.
 7. Vertical exaggeration = 80.
 8. Boring data from Vibrating Wire Piezometer (VWP) PO-15B were recorded on May 20, 2020, and the VWP was installed on September 25, 2020

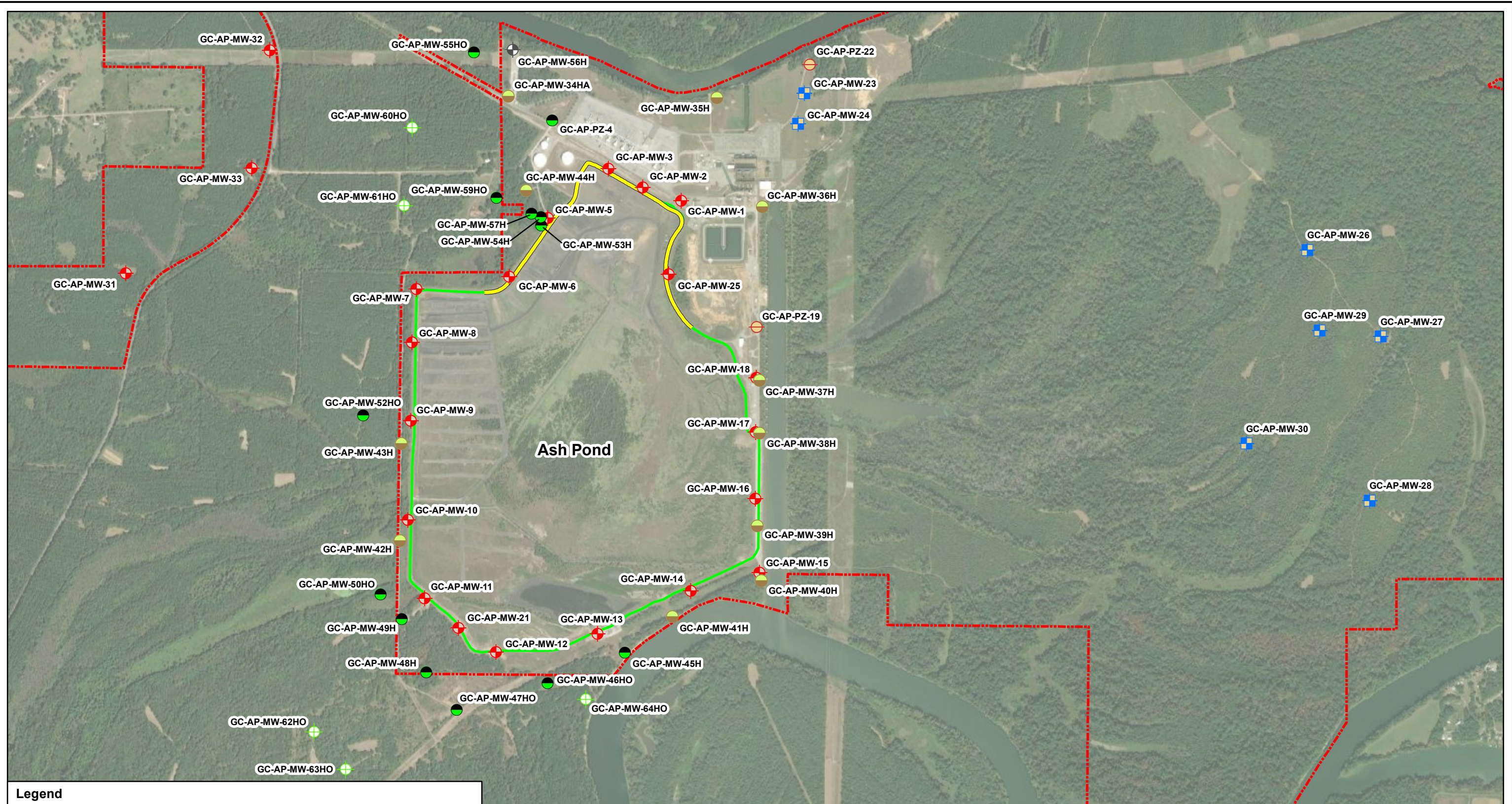
Legend		Borehole Description		Geologic Units	
	Groundwater Elevation		Well-graded Sand		Fill: Lean Clay, Sandy Clay, Sand
	Vibrating Wire Piezometer Tip Elevation		Poorly-graded Sand		Unit 1: Lean Clay to Sandy Clay
	Ground Surface Elevation		Poorly-graded Sand with Clay		Unit 2: Poorly Graded Sands with Gravel Lenses
	Screen Interval		Poorly-graded Sand with Silt		Unit 3: Chalk or Marl
	Unit Boundary (Inferred)		Well-graded Gravel		
	Unit Boundary		Poorly-graded Gravel		
			Chalk		
			Silty Sand		
			Fat Clay		
			Lean Clay		
			Silty Clay		
			Sandy Lean Clay		
			Sandy Silt		
			Clayey Sand		
			Silty Sand		
			Well Location		

SCALE	As Shown	DRAWING TITLE
DATE	7/19/2021	
DRAWN BY	KWR	
CHECKED BY	GFB	
FIGURE NO		
FIGURE 4B		



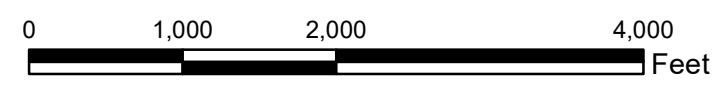
- Notes:**
- Source of ground surface elevation data: June 2020 Lidar and 2019 USGS 3DEP.
 - NAVD88 indicates North American Vertical Datum of 1988.
 - Groundwater elevation data were measured on March 8, 2021.
 - The ground surface shown on the cross section was derived from a digital elevation model raster along the cross section line drawn as shown in the inset map. In addition to boring data from wells located directly on the cross section line, boring data from wells location near but not directly on the cross section line were also utilized for lithologic correlation. These well's boring data are projected onto the cross section line, and, as such, the ground surface shown on the cross section is higher in elevation than what the ground surface actually is at those locations.
 - K = Hydraulic Conductivity.
 - Vertical exaggeration = 80.
 - Boring data from Vibrating Wire Piezometers (VWP) PO-01B, PI-01B, PO-13B, and PI-13B were recorded on May 19 and 21, 2020, and the VWPs were installed between September 22 and October 1, 2020.

Legend		Borehole Description		Geologic Units		SCALE	DRAWING TITLE
Groundwater Elevation	Vibrating Wire Piezometer Tip Elevation	Fill	Sandy Silt	Poorly-graded Sand with Clay	Fill/CCR	As Shown	GEOLOGIC CROSS SECTION C - C' PLANT GREENE COUNTY ASH POND
Ground Elevation	Fat Clay	Topsoil	Clayey Sand	Poorly-graded Sand with Silt	Unit 1: Lean Clay to Sandy Clay	DATE 7/19/2021	
Screen Interval	Lean Clay	Well-graded Sand	Silty Sand	Well-graded Gravel	Unit 2: Poorly-Graded Sands with Gravel Lenses	DRAWN BY KWR	
Unit Boundary (Inferred)	Silty Clay	Poorly-graded Sand	Well-graded Gravel	Poorly-graded Gravel	Unit 3: Chalk or Marl	CHECKED BY GFB	FIGURE NO FIGURE 4C
Unit Boundary	Sandy Lean Clay	Chalk					Southern Company
Well Location							



Legend

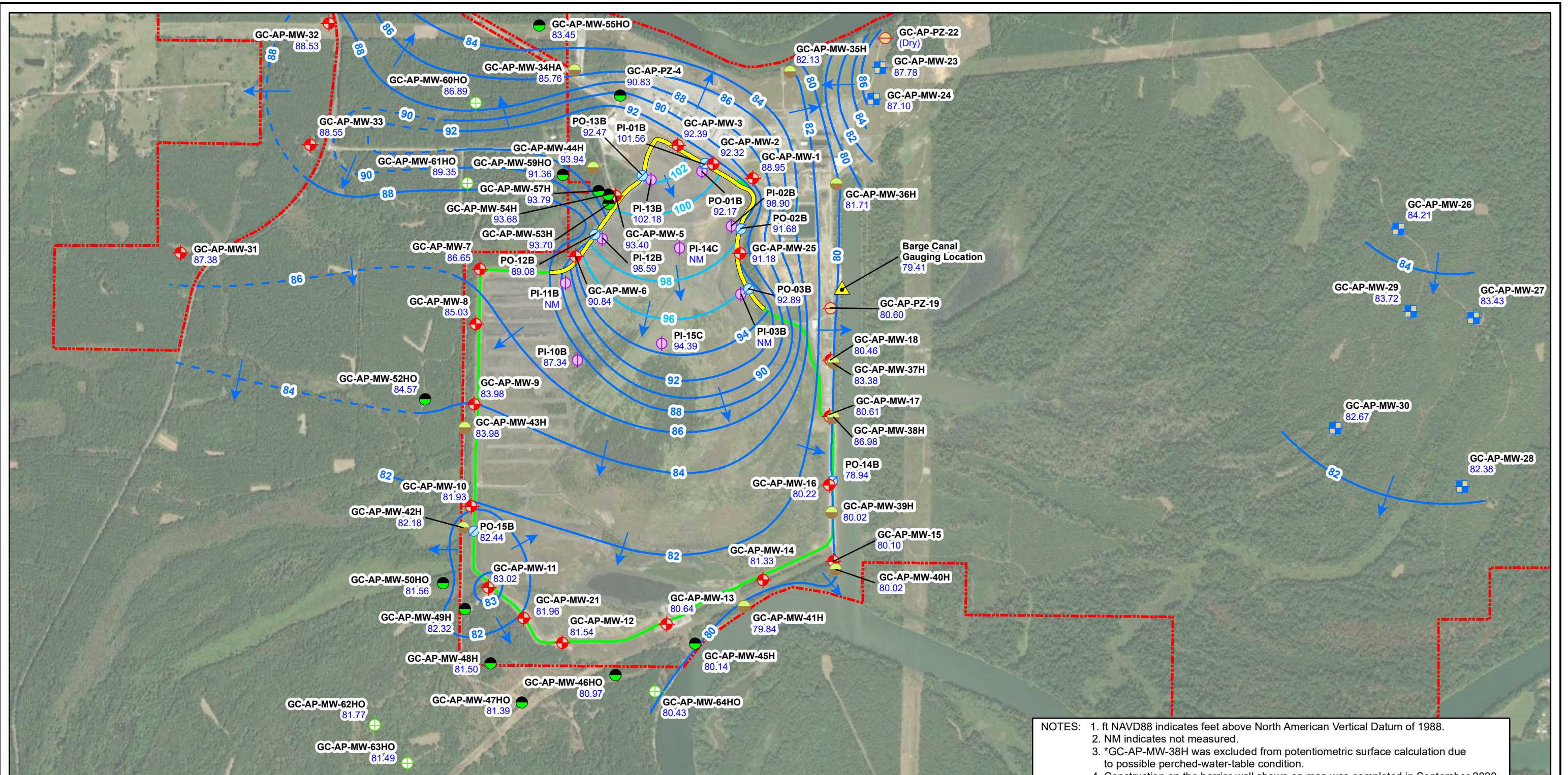
Downgradient Monitoring Well	Phase II Horizontal Delineation Well
Upgradient Monitoring Well	Phase III Horizontal Delineation Well
Piezometer	Abandoned Monitoring Well
Phase I Horizontal Delineation Well	Slurry Wall Alignment
	Ash Pond Boundary
	Property Boundary



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

SCALE	1:15000
DATE	1/19/2022
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE	
MONITORING WELL LOCATION MAP PLANT GREENE COUNTY ASH POND	
FIGURE NO	FIGURE 5

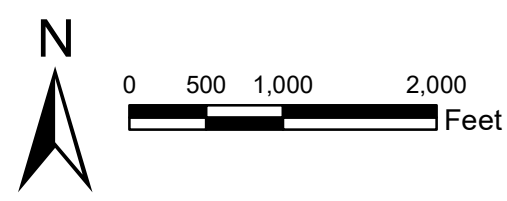


NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. NM indicates not measured.
 3. *GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.
 4. Construction on the barrier wall shown on map was completed in September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

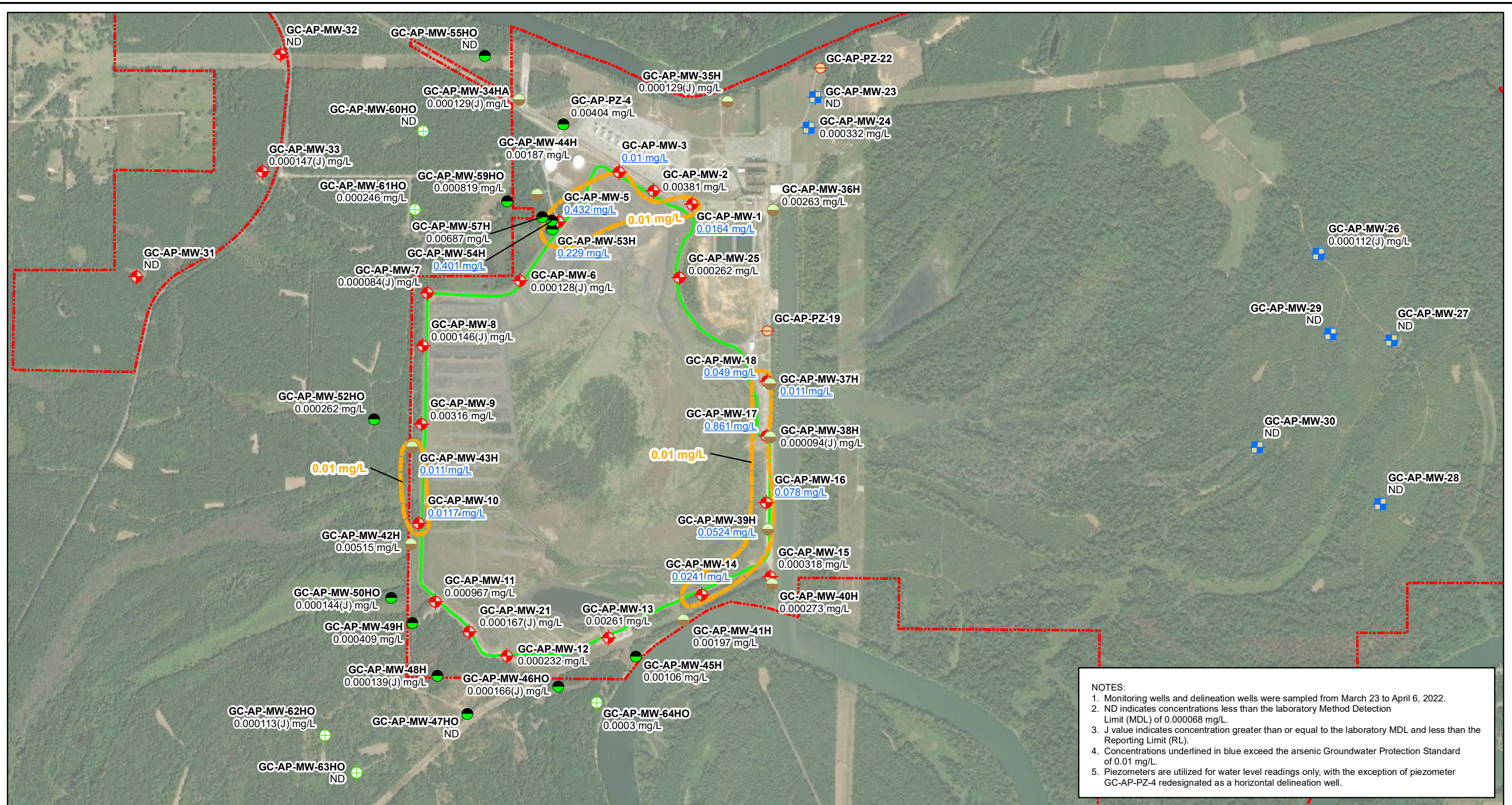
Legend

Barge Canal Gauging Location	Vibrating Wire Piezometer (Inside CCR Containment Dike)	Approximate Potentiometric Surface Contour (ft NAVD88) (Inside Barrier Wall)
Downgradient Monitoring Well	Vibrating Wire Piezometer (Outside CCR Containment Dike)	Inferred Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)
Upgradient Monitoring Well	Slurry Wall Alignment	Approximate Groundwater Flow Direction
Piezometer	Approximate Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)	Ash Pond Boundary
Phase I Horizontal Delineation Well		Property Boundary
Phase II Horizontal Delineation Well		
Phase III Horizontal Delineation Well		
Abandoned Monitoring Well		

GC-AP-MW-7 Well ID
86.65 Groundwater Elevation (ft NAVD88)

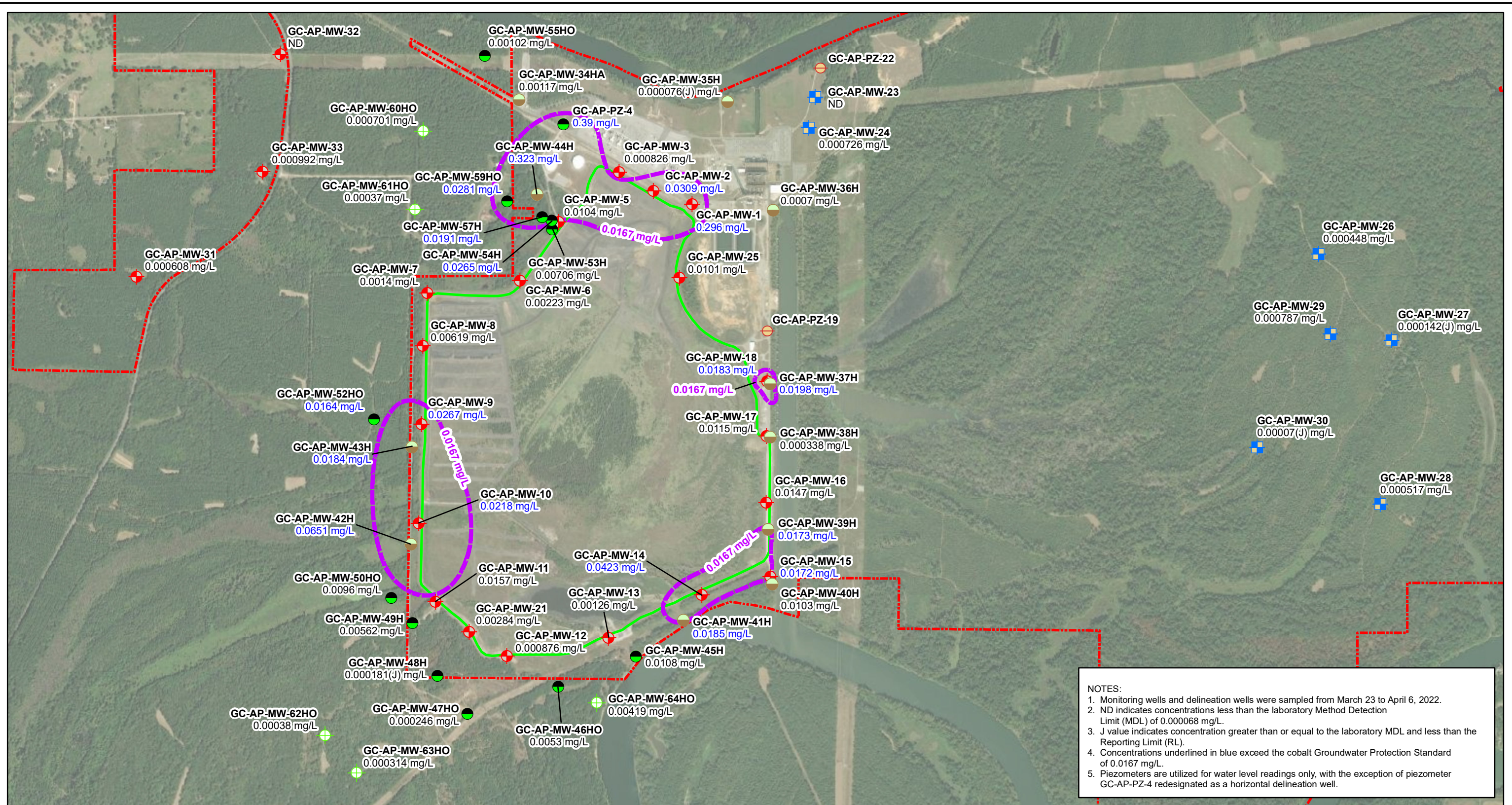


SCALE	1:15000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 22, 2022 PLANT GREENE COUNTY ASH POND
DATE	7/1/2022	
DRAWN BY	KWR	FIGURE NO FIGURE 6
CHECKED BY	GFB	
		Southern Company



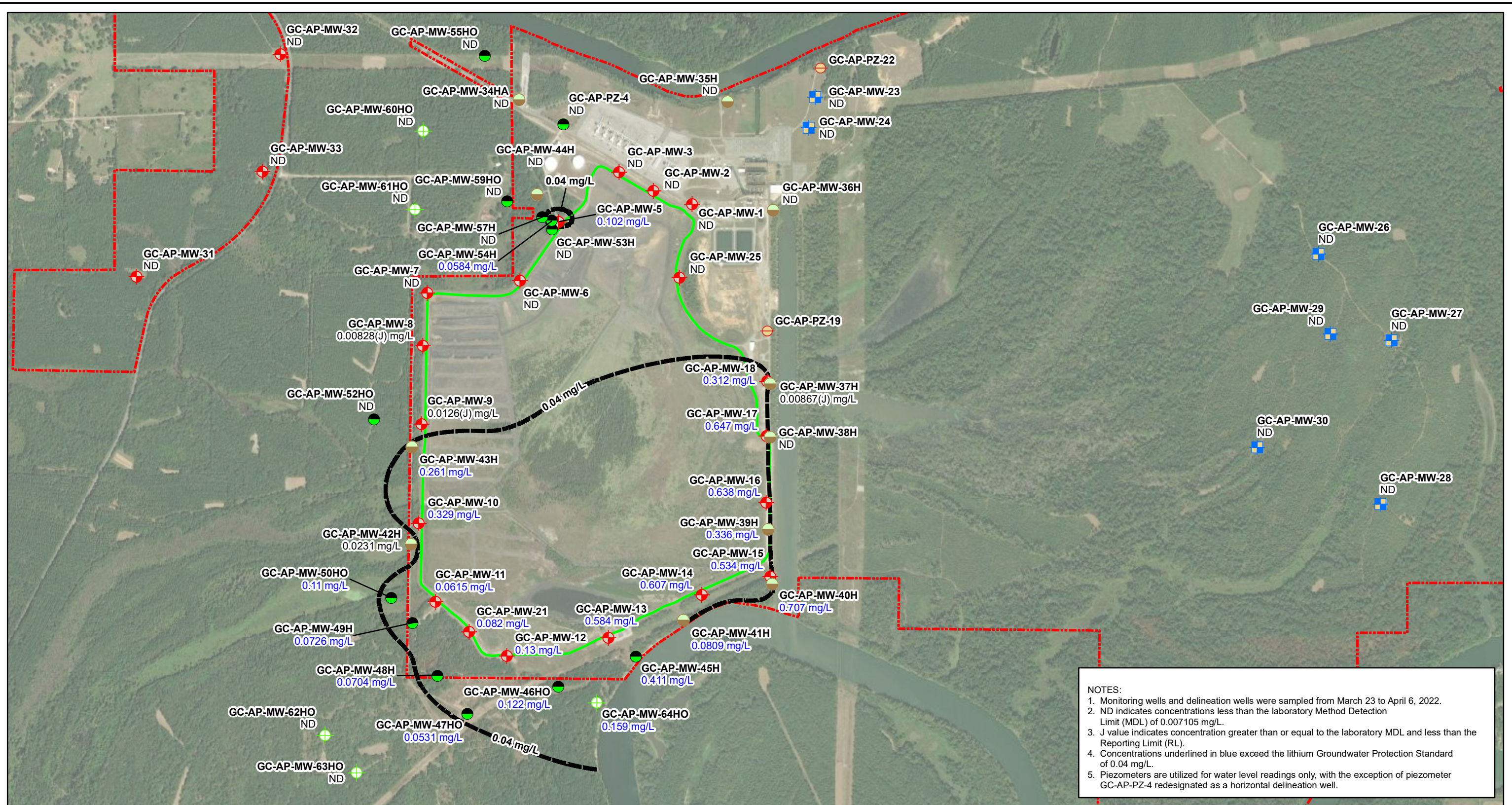
NOTES:
 1. Monitoring wells and delineation wells were sampled from March 23 to April 6, 2022.
 2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.000068 mg/L.
 3. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
 4. Concentrations underlined in blue exceed the arsenic Groundwater Protection Standard of 0.01 mg/L.
 5. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

Legend 	SCALE	1:15000	DRAWING TITLE	
	DATE	7/11/2022		
	DRAWN BY	KWR	FIGURE NO	
	CHECKED BY	GFB	FIGURE 7A	



NOTES:
 1. Monitoring wells and delineation wells were sampled from March 23 to April 6, 2022.
 2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.000068 mg/L.
 3. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
 4. Concentrations underlined in blue exceed the cobalt Groundwater Protection Standard of 0.0167 mg/L.
 5. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

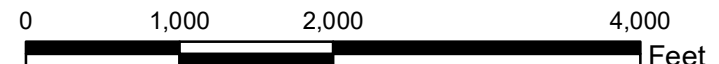
Legend 				SCALE 1:15000	DRAWING TITLE COBALT ISOCONCENTRATION MAP PLANT GREENE COUNTY ASH POND
				DATE 7/28/2022	
				DRAWN BY KWR	
				CHECKED BY GFB	



NOTES:
 1. Monitoring wells and delineation wells were sampled from March 23 to April 6, 2022.
 2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL) of 0.007105 mg/L.
 3. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
 4. Concentrations underlined in blue exceed the lithium Groundwater Protection Standard of 0.04 mg/L.
 5. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

- Legend**
- Downgradient Monitoring Well
 - Upgradient Monitoring Well
 - Piezometer
 - Phase I Horizontal Delineation Well
 - Phase II Horizontal Delineation Well
 - Phase III Horizontal Delineation Well

- Lithium GWPS Isoconcentration Contour (mg/L)
- Ash Pond Boundary
- Property Boundary



SCALE	1:15000
DATE	7/11/2022
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE	
LITHIUM ISOCONCENTRATION MAP PLANT GREENE COUNTY ASH POND	
FIGURE NO	FIGURE 7C
Southern Company	

Tables



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

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

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



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

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

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



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

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

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



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

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

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



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

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

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



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

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

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



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

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

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



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

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

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



Table 2. Parameters And Reporting Limits

Plant Greene County Ash Pond
03/23/2022 - 04/06/2022

Appendix III Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Boron	EPA 200.7	0.1015	mg/L
Calcium	EPA 200.7	0.406-20.299999	mg/L
Chloride	SM4500Cl E	1-25	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-80	mg/L
TDS	NA	NA	mg/L
Appendix IV Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Antimony	EPA 200.8	0.001015	mg/L
Arsenic	EPA 200.8	0.000203	mg/L
Barium	EPA 200.8	0.000203	mg/L
Beryllium	EPA 200.8	0.001015	mg/L
Cadmium	EPA 200.8	0.000203	mg/L
Chromium	EPA 200.8	0.001015	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.8	0.000203	mg/L
Selenium	EPA 200.8	0.001015	mg/L
Thallium	EPA 200.8	0.000203	mg/L
Combined Radium 226 + 228	Total Radium Calculation	NA	pCi/L

Notes:

1. Reporting Limit values can display range depending upon matrix interferences and dilution factors
2. pH is a field acquired parameter and does not have a laboratory method or reporting limit
3. Combined Radium 226 + 228 – product of radium-226 + radium-228; reporting limits presented are sum of radium 226, radium 228 reporting limits
4. EPA 200.7 – EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry"
5. EPA 200.8 - EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)"
6. SM 2320, 2540, 4500 – Standard Methods for Examination of Water and Wastewater.
7. Total Radium Calculation – Term used herein for EPA9315 + EPA9320
8. EPA 9315 – Used for Radium-226; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical Methods
9. EPA 9320 – Used for Radium-228; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical Methods



Table 3. Groundwater Elevations Summary

Plant Greene County Ash Pond
03/22/2022 - 03/22/2022

Well	Measure Date	TOCElevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
GC-AP-MW-1	03/22/2022	107.79	18.84	88.95
GC-AP-MW-2	03/22/2022	106.14	13.82	92.32
GC-AP-MW-3	03/22/2022	106.39	14	92.39
GC-AP-PZ-4	03/22/2022	103.53	12.7	90.83
GC-AP-MW-5	03/22/2022	108.43	15.03	93.40
GC-AP-MW-6	03/22/2022	102.05	11.21	90.84
GC-AP-MW-7	03/22/2022	98.56	11.91	86.65
GC-AP-MW-8	03/22/2022	97.11	12.08	85.03
GC-AP-MW-9	03/22/2022	93.19	9.21	83.98
GC-AP-MW-10	03/22/2022	87.83	5.91	81.92
GC-AP-MW-11	03/22/2022	101.18	18.16	83.02
GC-AP-MW-12	03/22/2022	103.26	21.72	81.54
GC-AP-MW-13	03/22/2022	101.18	20.54	80.64
GC-AP-MW-14	03/22/2022	85.61	4.28	81.33
GC-AP-MW-15	03/22/2022	91.69	11.59	80.10
GC-AP-MW-16	03/22/2022	108.79	28.57	80.22
GC-AP-MW-17	03/22/2022	106.4	25.79	80.61
GC-AP-MW-18	03/22/2022	105.04	24.58	80.46
GC-AP-PZ-19	03/22/2022	104.91	24.31	80.60
GC-AP-MW-21	03/22/2022	105.72	23.76	81.96
GC-AP-PZ-22	03/22/2022	104.64	Dry	Dry
GC-AP-MW-23	03/22/2022	102.64	14.86	87.78
GC-AP-MW-24	03/22/2022	106.05	18.95	87.10
GC-AP-MW-25	03/22/2022	104.98	13.8	91.18
GC-AP-MW-26	03/22/2022	89.25	5.04	84.21
GC-AP-MW-27	03/22/2022	90.68	7.25	83.43
GC-AP-MW-28	03/22/2022	89.36	6.98	82.38
GC-AP-MW-29	03/22/2022	89.32	5.6	83.72
GC-AP-MW-30	03/22/2022	89.87	7.2	82.67
GC-AP-MW-31	03/22/2022	94.19	6.81	87.38
GC-AP-MW-32	03/22/2022	105.85	17.32	88.53
GC-AP-MW-33	03/22/2022	108.99	20.44	88.55
GC-AP-MW-34HA	03/22/2022	108.38	22.62	85.76
GC-AP-MW-35H	03/22/2022	102.64	20.51	82.13
GC-AP-MW-36H	03/22/2022	105.17	23.46	81.71
GC-AP-MW-37H	03/22/2022	106.04	22.66	83.38
GC-AP-MW-38H	03/22/2022	106.58	19.6	86.98
GC-AP-MW-39H	03/22/2022	109.89	29.87	80.02
GC-AP-MW-40H	03/22/2022	87.53	7.51	80.02
GC-AP-MW-41H	03/22/2022	86.57	6.73	79.84
GC-AP-MW-42H	03/22/2022	87.56	5.38	82.18

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing



Table 3. Groundwater Elevations Summary

Plant Greene County Ash Pond
03/22/2022 - 03/22/2022

Well	Measure Date	TOCElevation (ft. NAVD)	Depth To Water (ft. BTOC)	Groundwater Elevation (ft. NAVD)
GC-AP-MW-43H	03/22/2022	91.76	7.78	83.98
GC-AP-MW-44H	03/22/2022	101.13	7.19	93.94
GC-AP-MW-45H	03/22/2022	95.14	15	80.14
GC-AP-MW-48H	03/22/2022	90.11	8.61	81.50
GC-AP-MW-49H	03/22/2022	91.71	9.39	82.32
GC-AP-MW-53H	03/22/2022	102.31	8.61	93.70
GC-AP-MW-54H	03/22/2022	102.94	9.26	93.68
GC-AP-MW-57H	03/22/2022	100.43	6.64	93.79
GC-AP-MW-47HO	03/22/2022	93.86	12.47	81.39
GC-AP-MW-50HO	03/22/2022	88.92	7.36	81.56
GC-AP-MW-55HO	03/22/2022	114.37	30.92	83.45
GC-AP-MW-59HO	03/22/2022	101.69	10.33	91.36
GC-AP-MW-46HO	03/22/2022	93.35	12.38	80.97
GC-AP-MW-52HO	03/22/2022	91.77	7.2	84.57
GC-AP-MW-60HO	03/22/2022	108.47	21.58	86.89
GC-AP-MW-61HO	03/22/2022	109.69	20.34	89.35
GC-AP-MW-62HO	03/22/2022	89.89	8.12	81.77
GC-AP-MW-63HO	03/22/2022	91.08	9.59	81.49
GC-AP-MW-64HO	03/22/2022	95.65	15.22	80.43
Barge Canal	03/22/2022	103.51	24.1	79.41

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

GC-AP-MW-13				
Sample Date = 5/17/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Selenium	mg/L	0.0452	0.0457	1.10%
GC-AP-MW-11				
Sample Date = 3/30/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.472	0.465	1.49%
Calcium	mg/L	39.6	40.2	1.50%
Chloride	mg/L	12.7	13.2	3.86%
Sulfate	mg/L	125	141	12.03%
Arsenic	mg/L	0.00097	0.00096	0.83%
Barium	mg/L	0.0485	0.0503	3.64%
Cobalt	mg/L	0.0157	0.0155	1.28%
Lithium	mg/L	0.0615	0.0619	0.65%
Molybdenum	mg/L	0.00425	0.00403	5.31%
GC-AP-MW-45H				
Sample Date = 3/29/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.567	0.57	0.53%
Calcium	mg/L	110	104	5.61%
Chloride	mg/L	9.58	9.44	1.47%
Fluoride	mg/L	0.162	0.13	21.92%
Sulfate	mg/L	337	361	6.88%
Arsenic	mg/L	0.00106	0.00095	10.74%
Barium	mg/L	0.0534	0.0558	4.40%
Cobalt	mg/L	0.0108	0.0113	4.53%
Lithium	mg/L	0.411	0.407	0.98%
Molybdenum	mg/L	0.0652	0.069	5.66%
GC-AP-MW-9				
Sample Date = 3/29/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.71	0.72	1.40%
Calcium	mg/L	72.1	69.7	3.39%
Chloride	mg/L	225	239	6.03%
Sulfate	mg/L	193	187	3.16%
Arsenic	mg/L	0.00316	0.00331	4.64%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

GC-AP-MW-9				
Sample Date = 3/29/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Barium	mg/L	0.139	0.139	0.00%
Cobalt	mg/L	0.0267	0.0266	0.38%
GC-AP-MW-2				
Sample Date = 3/28/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.125	0.127	1.59%
Calcium	mg/L	157	164	4.36%
Chloride	mg/L	11.5	11.5	0.00%
Sulfate	mg/L	563	553	1.79%
Arsenic	mg/L	0.00381	0.00326	15.56%
Barium	mg/L	0.0301	0.031	2.95%
Cobalt	mg/L	0.0309	0.0324	4.74%
Lead	mg/L	0.00066	0.00059	12.29%
GC-AP-MW-29				
Sample Date = 3/28/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Chloride	mg/L	1.24	1.24	0.00%
Barium	mg/L	0.0337	0.032	5.18%
Cobalt	mg/L	0.00079	0.00069	13.28%
GC-AP-MW-46HO				
Sample Date = 3/23/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.355	0.355	0.00%
Calcium	mg/L	53.1	49.6	6.82%
Chloride	mg/L	7.84	7.95	1.39%
Fluoride	mg/L	0.158	0.166	4.94%
Sulfate	mg/L	131	131	0.00%
Barium	mg/L	0.0595	0.0584	1.87%
Cobalt	mg/L	0.0053	0.00516	2.68%
Lithium	mg/L	0.122	0.123	0.82%
Molybdenum	mg/L	0.0489	0.0484	1.03%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

GC-AP-MW-47HO				
Sample Date = 3/23/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.159	0.158	0.63%
Calcium	mg/L	21.1	20.7	1.91%
Chloride	mg/L	8.8	8.82	0.23%
Sulfate	mg/L	61.1	61.6	0.82%
Barium	mg/L	0.0332	0.0343	3.26%
Cobalt	mg/L	0.00025	0.00024	3.31%
Lithium	mg/L	0.0531	0.0521	1.90%
GC-AP-MW-52HO				
Sample Date = 3/23/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	1.33	1.32	0.76%
Calcium	mg/L	66	63.2	4.33%
Chloride	mg/L	123	119	3.31%
Sulfate	mg/L	38.9	38.4	1.29%
Arsenic	mg/L	0.00026	0.00024	10.44%
Barium	mg/L	0.149	0.153	2.65%
Cobalt	mg/L	0.0164	0.0167	1.81%

Notes:

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



Table 4b. - Field QC: Blank Detections

Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
03/23/2022	FB-1	Barium	0.00023 v	mg/L	0.0001
04/06/2022	EB-1	Chromium	0.00032 J	mg/L	0.0002
04/06/2022	FB-5	Chromium	0.00029 J	mg/L	0.0002
04/04/2022	FB-4	Chromium	0.00022 J	mg/L	0.0002
03/29/2022	FB-2	Chromium	0.00025 J	mg/L	0.0002
03/29/2022	FB-3	Chromium	0.00025 J	mg/L	0.0002
03/28/2022	FB-1	Chromium	0.00025 J	mg/L	0.0002
03/23/2022	EB-1	Chromium	0.00021 J	mg/L	0.0002
03/23/2022	FB-1	Chromium	0.00035 J	mg/L	0.0002
03/23/2022	EB-1	Chromium	0.00027 J	mg/L	0.0002
03/23/2022	EB-1	Chromium	0.00033 J	mg/L	0.0002
03/23/2022	FB-1	Chromium	0.00031 J	mg/L	0.0002
03/23/2022	FB-1	Chromium	0.0003 J	mg/L	0.0002

Notes:

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



Table 5. Summary of Background Levels and Groundwater Protection Standards

Plant Greene County Ash Pond

Appendix III Analytes			
Analyte	Units	Background	GWPS
Fluoride	mg/L	0.31	4
Appendix IV Analytes			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.05	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002
Combined Radium 226 + 228	pCi/L	3.88	5

Notes:

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

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Greene County Ash Pond 03/23/2022 - 05/17/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	DO mg/L	ORP mv	Turbidity NTU	Field Temperature C	pH_Field SU	Conductivity uS/cm
Upgradient	GC-AP-MW-23	03/28/2022	5.9	154.79	1.04	17.73	6.08	144.72
Upgradient	GC-AP-MW-24	04/04/2022	4.18	152.36	1.22	19.36	4.4	233.12
Upgradient	GC-AP-MW-26	04/04/2022	2.51	129.49	1.04	18.43	5.2	61.7
Upgradient	GC-AP-MW-27	03/28/2022	6.88	241.1	0.78	18.72	4.73	33.75
Upgradient	GC-AP-MW-28	03/28/2022	7.7	235.31	0.59	18.26	4.69	44.28
Upgradient	GC-AP-MW-29	03/28/2022	9.13	203.25	1.34	17.65	4.67	12.5
Upgradient	GC-AP-MW-30	03/28/2022	4.36	226.73	0.61	17.81	4.93	26.46
Downgradient	GC-AP-MW-1	04/04/2022	1.06	53.31	4.22	20.06	5.17	1465.42
Downgradient	GC-AP-MW-10	04/04/2022	0.19	-71.76	0.4	25.5	6.21	627.33
Downgradient	GC-AP-MW-11	03/30/2022	0.95	58.23	0.42	19.61	6.02	462.47
Downgradient	GC-AP-MW-12	03/29/2022	1.2	123.61	0.69	19.81	6.44	474.84
Downgradient	GC-AP-MW-13	04/06/2022	0.93	60.05	0.68	26.7	6.24	423.79
Downgradient	GC-AP-MW-14	04/04/2022	0.23	-81.39	0.96	23.4	6.39	891.38
Downgradient	GC-AP-MW-15	03/29/2022	0.33	55.92	0.97	23.13	5.81	595.79
Downgradient	GC-AP-MW-16	04/06/2022	0.06	-48.49	4.33	26.29	6.42	746.84
Downgradient	GC-AP-MW-17	04/04/2022	0.13	-120.55	2.05	26.47	6.71	773.09
Downgradient	GC-AP-MW-18	04/06/2022	0.11	-26.21	2.48	27.48	6.29	636.34
Downgradient	GC-AP-MW-2	03/28/2022	0.93	86.36	2.91	19.67	5.32	1136.48
Downgradient	GC-AP-MW-21	03/30/2022	0.03	79.82	0.33	21.1	6.09	527.48
Downgradient	GC-AP-MW-25	03/29/2022	0.97	124.93	2.92	20.56	5.26	398.3
Downgradient	GC-AP-MW-3	04/05/2022	0.45	-53.4	1.8	26.33	6.27	532.06

Notes:

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

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	DO mg/L	ORP mv	Turbidity NTU	Field Temperature C	pH_Field SU	Conductivity uS/cm
Downgradient	GC-AP-MW-31	03/28/2022	3.5	136.06	3.36	17.18	5.05	66.43
Downgradient	GC-AP-MW-32	03/28/2022	4.28	175.87	0.41	20.08	5.01	73.1
Downgradient	GC-AP-MW-33	03/28/2022	5.94	170.7	0.23	18.2	4.29	91.81
Downgradient	GC-AP-MW-5	04/04/2022	0.43	-86.8	4.78	25.49	6.42	508.59
Downgradient	GC-AP-MW-6	03/29/2022	0.92	101.76	1.15	20.48	5.99	1178.36
Downgradient	GC-AP-MW-7	03/29/2022	0.95	104.42	0.71	18.93	6.62	1399.3
Downgradient	GC-AP-MW-8	03/29/2022	0.71	101.3	1.12	19.67	6.21	1211.2
Downgradient	GC-AP-MW-9	03/29/2022	0.82	93.15	0.62	19.59	5.61	1442.55
Horiz. Delineation	GC-AP-MW-34HA	03/28/2022	2.14	190.27	1.92	20.96	4.44	139.06
Horiz. Delineation	GC-AP-MW-35H	04/06/2022	7.61	108.5	1.06	19.54	5.24	150.13
Horiz. Delineation	GC-AP-MW-36H	03/30/2022	0.18	73.03	6.4	26.48	7.81	282.76
Horiz. Delineation	GC-AP-MW-37H	03/29/2022	0.71	-64.32	2.74	19.77	6.36	846.53
Horiz. Delineation	GC-AP-MW-38H	03/30/2022	2.99	128.45	0.95	23.34	6.62	479.43
Horiz. Delineation	GC-AP-MW-39H	04/06/2022	0.49	-33.75	2.32	19.59	6.31	805.88
Horiz. Delineation	GC-AP-MW-40H	03/30/2022	0.13	124.28	0.3	22.37	5.69	670.34
Horiz. Delineation	GC-AP-MW-41H	04/06/2022	0.25	-3.37	8.36	18.6	6.16	723.95
Horiz. Delineation	GC-AP-MW-42H	04/06/2022	0.14	-24.33	3.33	24.82	6.1	577.97
Horiz. Delineation	GC-AP-MW-43H	04/06/2022	0.12	-40.63	4.25	25.25	6.43	839.57
Horiz. Delineation	GC-AP-MW-44H	04/04/2022	0.31	73.11	4.89	17.32	5.56	870.22
Horiz. Delineation	GC-AP-MW-45H	03/29/2022	0.27	-18.32	3.62	24.72	6.83	841.42
Horiz. Delineation	GC-AP-MW-46HO	03/23/2022	0.18	70.74	2.24	19.2	6.55	464

Notes:

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5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	DO mg/L	ORP mv	Turbidity NTU	Field Temperature C	pH_Field SU	Conductivity uS/cm
Horiz. Delineation	GC-AP-MW-47HO	03/23/2022	0.23	163.87	2.98	19.03	5.3	235.66
Horiz. Delineation	GC-AP-MW-48H	03/30/2022	0.42	119.38	0.33	17.78	5.4	134.45
Horiz. Delineation	GC-AP-MW-49H	03/30/2022	0.1	103.85	1.21	18.99	5.72	313.62
Horiz. Delineation	GC-AP-MW-50HO	03/23/2022	0.08	144.36	4.51	20.47	6.17	392.31
Horiz. Delineation	GC-AP-MW-52HO	03/23/2022	0.23	41.73	4.36	17.45	6.14	850.17
Horiz. Delineation	GC-AP-MW-53H	04/06/2022	0.38	-60.82	4.15	16.97	6.23	715.12
Horiz. Delineation	GC-AP-MW-54H	04/05/2022	0.32	-82.01	4.62	16.8	6.59	693.2
Horiz. Delineation	GC-AP-MW-55HO	03/23/2022	6.15	250.88	4.37	18.3	5.2	57.34
Horiz. Delineation	GC-AP-MW-57H	04/05/2022	0.32	78.5	4.92	16.57	5.41	251.21
Horiz. Delineation	GC-AP-MW-59HO	03/23/2022	0.05	162.27	4.69	19.88	5.88	531.35
Horiz. Delineation	GC-AP-MW-60HO	03/23/2022	5.38	294.21	2.57	21.05	5.22	55.19
Horiz. Delineation	GC-AP-MW-61HO	03/23/2022	6.06	194.79	3.48	20.7	6.38	119.36
Horiz. Delineation	GC-AP-MW-62HO	03/23/2022	6.45	195.63	6	17.93	5.82	72.9
Horiz. Delineation	GC-AP-MW-63HO	03/23/2022	8.25	135.08	1.08	17.04	5.34	58.17
Horiz. Delineation	GC-AP-MW-64HO	03/23/2022	0.2	43.44	4.84	19.49	6.92	581.15
Horiz. Delineation	GC-AP-PZ-4	04/05/2022	0.23	-21.08	4.61	27.79	5.95	1260.99

Notes:

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

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	GC-AP-MW-23	03/28/2022	<0.03	26	1.09	<0.06	6.08	11.8
Upgradient	GC-AP-MW-24	04/04/2022	<0.03	37	3.09	<0.06	4.4	90.2
Upgradient	GC-AP-MW-26	04/04/2022	<0.03	6.7	2.93	<0.06	5.2	12.5
Upgradient	GC-AP-MW-27	03/28/2022	<0.03	1.37	1.96	<0.06	4.73	6.24
Upgradient	GC-AP-MW-28	03/28/2022	<0.03	1.94	1.35	<0.06	4.69	11.2
Upgradient	GC-AP-MW-29	03/28/2022	<0.03	0.172 J	1.24	<0.06	4.67	1.29 J
Upgradient	GC-AP-MW-30	03/28/2022	<0.03	0.542	4.12	<0.06	4.93	0.951 J
Downgradient	GC-AP-MW-1	04/04/2022	0.269	106	41.2	0.087 J	5.17	824
Downgradient	GC-AP-MW-10	04/04/2022	1.92	93.7	16.8	0.281	6.21	122
Downgradient	GC-AP-MW-11	03/30/2022	0.472	40.2	12.7	0.0814 J	6.02	125
Downgradient	GC-AP-MW-12	03/29/2022	0.416	52	11.8	0.107 J	6.44	108
Downgradient	GC-AP-MW-13	04/06/2022	0.26	55.5	3.71	<0.06	6.2	157
Downgradient	GC-AP-MW-14	04/04/2022	1.89	117	10	0.207	6.39	199
Downgradient	GC-AP-MW-15	03/29/2022	0.848	75.7	10.3	0.117 J	5.81	165
Downgradient	GC-AP-MW-16	04/06/2022	2.17	101	12	0.213	6.42	45.3
Downgradient	GC-AP-MW-17	04/04/2022	2.32	104	8.06	0.607	6.71	72.3
Downgradient	GC-AP-MW-18	04/06/2022	1.6	96.1	24.7	0.115 J	6.29	15.8
Downgradient	GC-AP-MW-2	03/28/2022	0.125	164	11.5	<0.06	5.32	563
Downgradient	GC-AP-MW-21	03/30/2022	0.696	51	12.1	<0.06	6.09	115
Downgradient	GC-AP-MW-25	03/29/2022	0.122	31.9	29.6	0.0724 J	5.26	68.6
Downgradient	GC-AP-MW-3	04/05/2022	0.0453 J	67.4	21.3	0.107 J	6.27	14.7

Notes:

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

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Downgradient	GC-AP-MW-31	03/28/2022	<0.03	5.95	6	<0.06	5.05	3.34
Downgradient	GC-AP-MW-32	03/28/2022	<0.03	9.61	3.98	<0.06	5.01	2.55
Downgradient	GC-AP-MW-33	03/28/2022	<0.03	2.21	5.47	<0.06	4.29	11.8
Downgradient	GC-AP-MW-5	04/04/2022	0.615	98.8	9.63	0.216	6.42	160
Downgradient	GC-AP-MW-6	03/29/2022	1.39	128	45.3	0.193	5.99	190
Downgradient	GC-AP-MW-7	03/29/2022	0.0842 J	126	94.7	0.104 J	6.62	187
Downgradient	GC-AP-MW-8	03/29/2022	1.08	92.8	95.4	0.108 J	6.21	75.3
Downgradient	GC-AP-MW-9	03/29/2022	0.71	72.1	225	<0.06	5.61	193
Horiz. Delineation	GC-AP-MW-34HA	03/28/2022	<0.03	10.8	3.52	<0.06	4.44	27
Horiz. Delineation	GC-AP-MW-35H	04/06/2022	<0.03	22.5	1.48	<0.06	5.24	32.3
Horiz. Delineation	GC-AP-MW-36H	03/30/2022	0.145	1.01	3.04	0.301	7.81	10.3
Horiz. Delineation	GC-AP-MW-37H	03/29/2022	0.157	118	5.57	0.189	6.36	303
Horiz. Delineation	GC-AP-MW-38H	03/30/2022	0.102	93.5	3.8	0.0661 J	6.62	51.9
Horiz. Delineation	GC-AP-MW-39H	04/06/2022	2.21	119	8.43	0.39	6.31	34.9
Horiz. Delineation	GC-AP-MW-40H	03/30/2022	0.506	96	5.72	<0.06	5.69	290
Horiz. Delineation	GC-AP-MW-41H	04/06/2022	0.607	110	13.6	<0.06	6.16	236
Horiz. Delineation	GC-AP-MW-42H	04/06/2022	1.46	69.6	15.9	<0.06	6.1	94.3
Horiz. Delineation	GC-AP-MW-43H	04/06/2022	1.29	110	37.1	0.0977 J	6.43	105
Horiz. Delineation	GC-AP-MW-44H	04/04/2022	0.202	137	13.7	<0.06	5.56	390
Horiz. Delineation	GC-AP-MW-45H	03/29/2022	0.567	110	9.58	0.162	6.83	337
Horiz. Delineation	GC-AP-MW-46HO	03/23/2022	0.355	53.1	7.84	0.158	6.55	131
Horiz. Delineation	GC-AP-MW-47HO	03/23/2022	0.159	21.1	8.8	<0.06	5.3	61.1

Notes:

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

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Greene County Ash Pond 03/23/2022 - 05/17/2022

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Horiz. Delineation	GC-AP-MW-48H	03/30/2022	0.0985 J	13.4	3.44	<0.06	5.4	36.4
Horiz. Delineation	GC-AP-MW-49H	03/30/2022	0.33	27.8	8.12	0.0724 J	5.72	106
Horiz. Delineation	GC-AP-MW-50HO	03/23/2022	0.508	38.7	17.7	0.16	6.17	60.4
Horiz. Delineation	GC-AP-MW-52HO	03/23/2022	1.33	66	123	0.0894 J	6.14	38.9
Horiz. Delineation	GC-AP-MW-53H	04/06/2022	0.329	78.5	8.07	0.101 J	6.23	117
Horiz. Delineation	GC-AP-MW-54H	04/05/2022	0.462	95.6	8.13	0.246	6.59	114
Horiz. Delineation	GC-AP-MW-55HO	03/23/2022	0.0337 J	2.26	4.56	<0.06	5.2	8.46
Horiz. Delineation	GC-AP-MW-57H	04/05/2022	0.104	17.8	20	<0.06	5.41	49.5
Horiz. Delineation	GC-AP-MW-59HO	03/23/2022	0.197	63.2	9.19	0.0775 J	5.88	225
Horiz. Delineation	GC-AP-MW-60HO	03/23/2022	<0.03	2.95	4.08	<0.06	5.22	6.73
Horiz. Delineation	GC-AP-MW-61HO	03/23/2022	<0.03	22.4	2.07	0.0871 J	6.38	10.1
Horiz. Delineation	GC-AP-MW-62HO	03/23/2022	0.0339 J	8.23	3.19	<0.06	5.82	15.9
Horiz. Delineation	GC-AP-MW-63HO	03/23/2022	0.0339 J	6.43	2.42	<0.06	5.34	18.5
Horiz. Delineation	GC-AP-MW-64HO	03/23/2022	0.567	63.2	16.1	0.251	6.92	156
Horiz. Delineation	GC-AP-PZ-4	04/05/2022	0.351	209	7.86	0.0841 J	5.95	812

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	GC-AP-MW-23	03/28/2022	<0.000508	<8.1e-005	0.0264	<0.000406	<6.8e-005	0.000337 J	<6.8e-005	<0.06
Upgradient	GC-AP-MW-24	04/04/2022	<0.000508	0.000332	0.0635	<0.000406	<6.8e-005	0.000371 J	0.000726	<0.06
Upgradient	GC-AP-MW-26	04/04/2022	<0.000508	0.000112 J	0.0335	<0.000406	<6.8e-005	0.000295 J	0.000448	<0.06
Upgradient	GC-AP-MW-27	03/28/2022	<0.000508	<8.1e-005	0.0625	<0.000406	0.000182 J	0.000306 J	0.000142 J	<0.06
Upgradient	GC-AP-MW-28	03/28/2022	<0.000508	<8.1e-005	0.186	<0.000406	0.000429	0.000723 J	0.000517	<0.06
Upgradient	GC-AP-MW-29	03/28/2022	<0.000508	<8.1e-005	0.0337	<0.000406	0.000162 J	0.000351 J	0.000787	<0.06
Upgradient	GC-AP-MW-30	03/28/2022	<0.000508	<8.1e-005	0.0286	<0.000406	<6.8e-005	0.000396 J	7e-005 J	<0.06
Downgradient	GC-AP-MW-1	04/04/2022	<0.000508	0.0164	0.0235	<0.000406	<6.8e-005	0.000449 J	0.296	0.161
Downgradient	GC-AP-MW-10	04/04/2022	<0.000508	0.0117	0.26	<0.000406	<6.8e-005	<0.000203	0.0218	0.276
Downgradient	GC-AP-MW-11	03/30/2022	<0.000508	0.000967	0.0485	<0.000406	<6.8e-005	0.000226 J	0.0157	<0.06
Downgradient	GC-AP-MW-12	03/29/2022	<0.000508	0.000232	0.0355	<0.000406	<6.8e-005	0.000433 J	0.000876	0.107 J
Downgradient	GC-AP-MW-13	04/06/2022	0.002	0.00261	0.0701	<0.000406	7.92e-005 J	0.000299 J	0.00126	<0.06
Downgradient	GC-AP-MW-14	04/04/2022	<0.000508	0.0241	0.103	<0.000406	<6.8e-005	0.000248 J	0.0423	0.245
Downgradient	GC-AP-MW-15	03/29/2022	<0.000508	0.000318	0.0381	<0.000406	0.000459	<0.000203	0.0172	0.117 J
Downgradient	GC-AP-MW-16	04/06/2022	<0.000508	0.078	0.103	<0.000406	<6.8e-005	0.00034 J	0.0147	0.266
Downgradient	GC-AP-MW-17	04/04/2022	<0.000508	0.861	0.27	<0.000406	<6.8e-005	0.000224 J	0.0115	0.564
Downgradient	GC-AP-MW-18	04/06/2022	<0.000508	0.049	0.0769	<0.000406	<6.8e-005	0.000313 J	0.0183	0.162
Downgradient	GC-AP-MW-2	03/28/2022	<0.000508	0.00381	0.0301	<0.000406	0.000115 J	0.000304 J	0.0309	0.105 J
Downgradient	GC-AP-MW-21	03/30/2022	<0.000508	0.000167 J	0.112	<0.000406	6.83e-005 J	0.000217 J	0.00284	<0.06
Downgradient	GC-AP-MW-25	03/29/2022	<0.000508	0.000262	0.0717	<0.000406	6.91e-005 J	0.000415 J	0.0101	0.0724 J
Downgradient	GC-AP-MW-3	04/05/2022	<0.000508	0.01	0.145	<0.000406	<6.8e-005	0.00039 J	0.000826	0.185

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- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Greene County Ash Pond 03/23/2022 - 05/17/2022

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Upgradient	GC-AP-MW-23	03/28/2022	<6.8e-005	<0.007105	<0.0003	0.000124 J	0.000989 J	<6.8e-005
Upgradient	GC-AP-MW-24	04/04/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	0.000931 J	<6.8e-005
Upgradient	GC-AP-MW-26	04/04/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-27	03/28/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-28	03/28/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-29	03/28/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-30	03/28/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-1	04/04/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	0.00221	0.000155 J
Downgradient	GC-AP-MW-10	04/04/2022	<6.8e-005	0.329	<0.0003	0.0117	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-11	03/30/2022	<6.8e-005	0.0615	<0.0003	0.00403	<0.000508	8.03e-005 J
Downgradient	GC-AP-MW-12	03/29/2022	<6.8e-005	0.13	<0.0003	0.0514	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-13	04/06/2022	<6.8e-005	0.584	<0.0003	0.0201	0.0452	0.00169
Downgradient	GC-AP-MW-14	04/04/2022	<6.8e-005	0.607	<0.0003	0.0166	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-15	03/29/2022	<6.8e-005	0.534	<0.0003	<0.000102	<0.000508	0.000115 J
Downgradient	GC-AP-MW-16	04/06/2022	8.65e-005 J	0.638	<0.0003	0.000149 J	<0.000508	0.000353
Downgradient	GC-AP-MW-17	04/04/2022	<6.8e-005	0.647	<0.0003	0.054	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-18	04/06/2022	<6.8e-005	0.312	<0.0003	0.000321	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-2	03/28/2022	0.000588	<0.007105	<0.0003	<0.000102	0.000585 J	0.000158 J
Downgradient	GC-AP-MW-21	03/30/2022	<6.8e-005	0.082	<0.0003	0.00682	<0.000508	0.000107 J
Downgradient	GC-AP-MW-25	03/29/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-3	04/05/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	0.000744 J	<6.8e-005

Notes:

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Downgradient	GC-AP-MW-31	03/28/2022	<0.000508	<8.1e-005	0.0325	<0.000406	<6.8e-005	0.000392 J	0.000608	<0.06
Downgradient	GC-AP-MW-32	03/28/2022	<0.000508	<8.1e-005	0.0132	<0.000406	<6.8e-005	0.00042 J	<6.8e-005	<0.06
Downgradient	GC-AP-MW-33	03/28/2022	<0.000508	0.000147 J	0.0773	<0.000406	<6.8e-005	0.000436 J	0.000992	<0.06
Downgradient	GC-AP-MW-5	04/04/2022	<0.000508	0.432	0.131	<0.000406	<6.8e-005	0.000249 J	0.0104	0.216
Downgradient	GC-AP-MW-6	03/29/2022	<0.000508	0.000128 J	0.0614	<0.000406	0.000497	<0.000203	0.00223	0.193
Downgradient	GC-AP-MW-7	03/29/2022	0.000659 J	8.41e-005 J	0.0639	<0.000406	<6.8e-005	0.000239 J	0.0014	0.104 J
Downgradient	GC-AP-MW-8	03/29/2022	<0.000508	0.000146 J	0.104	<0.000406	<6.8e-005	0.000267 J	0.00619	0.108 J
Downgradient	GC-AP-MW-9	03/29/2022	<0.000508	0.00316	0.139	<0.000406	<6.8e-005	0.00027 J	0.0267	<0.06
Horiz. Delineation	GC-AP-MW-34HA	03/28/2022	<0.000508	0.000129 J	0.0481	<0.000406	<6.8e-005	0.000354 J	0.00117	<0.06
Horiz. Delineation	GC-AP-MW-35H	04/06/2022	<0.000508	0.000129 J	0.0385	<0.000406	<6.8e-005	0.000514 J	7.55e-005 J	<0.06
Horiz. Delineation	GC-AP-MW-36H	03/30/2022	<0.000508	0.00263	0.00372	<0.000406	<6.8e-005	0.00108	0.0007	0.301
Horiz. Delineation	GC-AP-MW-37H	03/29/2022	<0.000508	0.011	0.0235	<0.000406	<6.8e-005	0.000366 J	0.0198	0.189
Horiz. Delineation	GC-AP-MW-38H	03/30/2022	<0.000508	9.44e-005 J	0.0702	<0.000406	<6.8e-005	0.000372 J	0.000338	0.0661 J
Horiz. Delineation	GC-AP-MW-39H	04/06/2022	<0.000508	0.0524	0.178	<0.000406	<6.8e-005	0.000286 J	0.0173	0.39
Horiz. Delineation	GC-AP-MW-40H	03/30/2022	<0.000508	0.000273	0.0277	<0.000406	0.00018 J	0.000304 J	0.0103	<0.06
Horiz. Delineation	GC-AP-MW-41H	04/06/2022	<0.000508	0.00197	0.145	<0.000406	<6.8e-005	0.000525 J	0.0185	<0.06
Horiz. Delineation	GC-AP-MW-42H	04/06/2022	<0.000508	0.00515	0.147	<0.000406	0.000241	0.000278 J	0.0651	0.0664 J
Horiz. Delineation	GC-AP-MW-43H	04/06/2022	<0.000508	0.011	0.168	<0.000406	<6.8e-005	0.000264 J	0.0184	0.133
Horiz. Delineation	GC-AP-MW-44H	04/04/2022	<0.000508	0.00187	0.0482	<0.000406	0.000301	0.000225 J	0.323	<0.06
Horiz. Delineation	GC-AP-MW-45H	03/29/2022	<0.000508	0.000952	0.0534	<0.000406	<6.8e-005	0.00028 J	0.0108	0.13
Horiz. Delineation	GC-AP-MW-46HO	03/23/2022	<0.000508	0.000164 J	0.0595	<0.000406	<6.8e-005	0.000282 J	0.0053	0.158
Horiz. Delineation	GC-AP-MW-47HO	03/23/2022	<0.000508	<8.1e-005	0.0332	<0.000406	<6.8e-005	0.000307 J	0.000246	<0.06

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Downgradient	GC-AP-MW-31	03/28/2022	0.000146 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-32	03/28/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-33	03/28/2022	0.000154 J	<0.007105	<0.0003	<0.000102	0.000715 J	<6.8e-005
Downgradient	GC-AP-MW-5	04/04/2022	<6.8e-005	0.102	<0.0003	0.00354	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-6	03/29/2022	<6.8e-005	<0.007105	<0.0003	0.00142	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-7	03/29/2022	<6.8e-005	<0.007105	<0.0003	0.000161 J	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-8	03/29/2022	<6.8e-005	0.00828 J	<0.0003	<0.000102	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-9	03/29/2022	<6.8e-005	0.0126 J	<0.0003	<0.000102	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-34HA	03/28/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	0.0006 J	<6.8e-005
Horiz. Delineation	GC-AP-MW-35H	04/06/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	0.00364	<6.8e-005
Horiz. Delineation	GC-AP-MW-36H	03/30/2022	0.000368	<0.007105	<0.0003	0.000175 J	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-37H	03/29/2022	<6.8e-005	0.00867 J	<0.0003	0.00079	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-38H	03/30/2022	<6.8e-005	<0.007105	<0.0003	0.000759	0.00902	<6.8e-005
Horiz. Delineation	GC-AP-MW-39H	04/06/2022	<6.8e-005	0.336	<0.0003	0.00174	<0.000508	0.000594
Horiz. Delineation	GC-AP-MW-40H	03/30/2022	<6.8e-005	0.707	<0.0003	<0.000102	<0.000508	0.000168 J
Horiz. Delineation	GC-AP-MW-41H	04/06/2022	7.51e-005 J	0.0809	<0.0003	0.000131 J	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-42H	04/06/2022	<6.8e-005	0.0231	<0.0003	0.000233	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-43H	04/06/2022	<6.8e-005	0.261	<0.0003	0.00264	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-44H	04/04/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-45H	03/29/2022	<6.8e-005	0.411	<0.0003	0.069	<0.000508	0.000127 J
Horiz. Delineation	GC-AP-MW-46HO	03/23/2022	<6.8e-005	0.122	<0.0003	0.0484	<0.000508	6.96e-005 J
Horiz. Delineation	GC-AP-MW-47HO	03/23/2022	<6.8e-005	0.0521	<0.0003	<0.000102	<0.000508	<6.8e-005

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Analytical Results Summary Plant Greene County Ash Pond 03/23/2022 - 05/17/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Horiz. Delineation	GC-AP-MW-48H	03/30/2022	<0.000508	0.000139 J	0.0253	<0.000406	<6.8e-005	0.000237 J	0.000181 J	<0.06
Horiz. Delineation	GC-AP-MW-49H	03/30/2022	<0.000508	0.000409	0.0642	<0.000406	0.000286	0.000211 J	0.00562	0.0724 J
Horiz. Delineation	GC-AP-MW-50HO	03/23/2022	<0.000508	0.000144 J	0.0762	<0.000406	0.000372	0.00051 J	0.0096	0.16
Horiz. Delineation	GC-AP-MW-52HO	03/23/2022	<0.000508	0.000262	0.149	<0.000406	0.000141 J	0.000352 J	0.0164	0.0894 J
Horiz. Delineation	GC-AP-MW-53H	04/06/2022	<0.000508	0.229	0.382	<0.000406	<6.8e-005	0.000467 J	0.00706	0.101 J
Horiz. Delineation	GC-AP-MW-54H	04/05/2022	<0.000508	0.401	0.18	<0.000406	<6.8e-005	0.000304 J	0.0265	0.246
Horiz. Delineation	GC-AP-MW-55HO	03/23/2022	<0.000508	<8.1e-005	0.0352	<0.000406	<6.8e-005	0.00107	0.00102	<0.06
Horiz. Delineation	GC-AP-MW-57H	04/05/2022	<0.000508	0.00687	0.088	<0.000406	<6.8e-005	0.000416 J	0.0191	<0.06
Horiz. Delineation	GC-AP-MW-59HO	03/23/2022	<0.000508	0.000819	0.0627	<0.000406	0.000116 J	0.000309 J	0.0281	0.0775 J
Horiz. Delineation	GC-AP-MW-60HO	03/23/2022	<0.000508	<8.1e-005	0.0338	<0.000406	<6.8e-005	0.00111	0.000701	<0.06
Horiz. Delineation	GC-AP-MW-61HO	03/23/2022	<0.000508	0.000246	0.0411	<0.000406	<6.8e-005	0.000654 J	0.00037	0.0871 J
Horiz. Delineation	GC-AP-MW-62HO	03/23/2022	<0.000508	0.000113 J	0.0807	<0.000406	7.13e-005 J	0.000723 J	0.00038	<0.06
Horiz. Delineation	GC-AP-MW-63HO	03/23/2022	<0.000508	<8.1e-005	0.0498	<0.000406	0.000104 J	0.000448 J	0.000314	<0.06
Horiz. Delineation	GC-AP-MW-64HO	03/23/2022	<0.000508	0.0003	0.094	<0.000406	0.000131 J	0.000614 J	0.00419	0.251
Horiz. Delineation	GC-AP-PZ-4	04/05/2022	<0.000508	0.00404	0.0665	<0.000406	7.92e-005 J	0.000468 J	0.39	0.158

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Horiz. Delineation	GC-AP-MW-48H	03/30/2022	<6.8e-005	0.0704	<0.0003	<0.000102	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-49H	03/30/2022	<6.8e-005	0.0726	<0.0003	0.000187 J	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-50HO	03/23/2022	0.00013 J	0.11	<0.0003	<0.000102	<0.000508	0.000108 J
Horiz. Delineation	GC-AP-MW-52HO	03/23/2022	8.39e-005 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-53H	04/06/2022	8.2e-005 J	<0.007105	<0.0003	0.000823	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-54H	04/05/2022	<6.8e-005	0.0584	<0.0003	0.00291	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-55HO	03/23/2022	0.000102 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-57H	04/05/2022	0.000314	<0.007105	<0.0003	0.000396	0.00059 J	<6.8e-005
Horiz. Delineation	GC-AP-MW-59HO	03/23/2022	<6.8e-005	<0.007105	<0.0003	0.000116 J	0.00097 J	0.000126 J
Horiz. Delineation	GC-AP-MW-60HO	03/23/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	0.00122	<6.8e-005
Horiz. Delineation	GC-AP-MW-61HO	03/23/2022	<6.8e-005	<0.007105	<0.0003	0.000524	0.000711 J	<6.8e-005
Horiz. Delineation	GC-AP-MW-62HO	03/23/2022	0.000159 J	<0.007105	<0.0003	0.000126 J	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-63HO	03/23/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-64HO	03/23/2022	0.000157 J	0.159	<0.0003	0.0639	<0.000508	9.41e-005 J
Horiz. Delineation	GC-AP-PZ-4	04/05/2022	0.0002 J	<0.007105	<0.0003	<0.000102	0.00192	9.45e-005 J

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5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Iron Total mg/L	Magnesium Total mg/L	Silicon mg/L	Sodium mg/L	Calcium mg/L	Silica mg/L	Aluminum mg/L
Upgradient	GC-AP-MW-23	03/28/2022	0	0.0159 J	2.12	3.51	2.33	26	7.51	0.0118
Upgradient	GC-AP-MW-24	04/04/2022	0	0.359	4.39	5.49	2.48	37	11.7	0.0321
Upgradient	GC-AP-MW-26	04/04/2022	0	<0.00812	0.899	5.88	4.35	6.7	12.6	0.0677
Upgradient	GC-AP-MW-27	03/28/2022	0	<0.00812	0.586	4.86	3.56	1.37	10.4	0.0131
Upgradient	GC-AP-MW-28	03/28/2022	0	<0.00812	1.74	3.72	1.36	1.94	7.96	0.0607
Upgradient	GC-AP-MW-29	03/28/2022	0	0.0137 J	0.257 J	3.9	0.897	0.172 J	8.35	0.0331
Upgradient	GC-AP-MW-30	03/28/2022	0	<0.00812	0.164 J	4.94	4.76	0.542	10.6	0.00974 J
Downgradient	GC-AP-MW-1	04/04/2022	0	210	36.6	5.42	55.4	106	11.6	0.0471
Downgradient	GC-AP-MW-10	04/04/2022	0	19.4	20.2	4.49	28.6	93.7	9.61	<0.00609
Downgradient	GC-AP-MW-11	03/30/2022	0	0.319	13.1	2.6	30.7	39.6	5.56	<0.00609
Downgradient	GC-AP-MW-12	03/29/2022	0	<0.00812	16.1	2.8	21.9	52	5.99	<0.00609
Downgradient	GC-AP-MW-13	04/06/2022	0	0.312	13.9	3.49	9.98	55.5	7.47	<0.00609
Downgradient	GC-AP-MW-14	04/04/2022	0	51.1	27.7	6.02	33.6	117	12.9	<0.00609
Downgradient	GC-AP-MW-15	03/29/2022	0	1.25	18.6	5.69	30	75.7	12.2	<0.00609
Downgradient	GC-AP-MW-16	04/06/2022	0	13.3	25.8	5.94	39.3	101	12.7	<0.00609
Downgradient	GC-AP-MW-17	04/04/2022	0	26.6	29	9.15	42.8	104	19.6	<0.00609
Downgradient	GC-AP-MW-18	04/06/2022	0	12.7	15.6	7.83	49.2	96.1	16.8	<0.00609
Downgradient	GC-AP-MW-2	03/28/2022	0	48.5	23.3	4.96	33	157	10.6	0.0398
Downgradient	GC-AP-MW-21	03/30/2022	0	0.0331 J	16.5	3.99	32.6	51	8.54	<0.00609
Downgradient	GC-AP-MW-25	03/29/2022	0	0.903	7.3	10.7	34.4	31.9	22.9	0.0155

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.

Analytical Results Summary Plant Greene County Ash Pond 03/23/2022 - 05/17/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Alkalinity Total as CaCO3 mg/L	Carbonate Alkalinity as CaCO3 mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Carbon, Total Organic mg/L	Chloride mg/L
Upgradient	GC-AP-MW-23	03/28/2022	0.000308	0.65	0.219 J	78.8	-10000	78.3	<1	1.09
Upgradient	GC-AP-MW-24	04/04/2022	0.18	1.36	0.399	15.2	-10000	15.2	<1	3.09
Upgradient	GC-AP-MW-26	04/04/2022	0.0443	0.462 J	<0.2	12.8	-10000	12.8	<1	2.93
Upgradient	GC-AP-MW-27	03/28/2022	0.0135	0.812	1.05	3.24	-10000	3.24	<1	1.96
Upgradient	GC-AP-MW-28	03/28/2022	0.0719	1.7	0.945	0.56	-10000	-10000	<1	1.35
Upgradient	GC-AP-MW-29	03/28/2022	0.0126	0.735	0.307	0.84	-10000	-10000	<1	1.24
Upgradient	GC-AP-MW-30	03/28/2022	0.00447	0.662	0.625	3.96	-10000	3.95	<1	4.12
Downgradient	GC-AP-MW-1	04/04/2022	15.3	3.54	0.36	47.6	-10000	47.6	2.86	41.2
Downgradient	GC-AP-MW-10	04/04/2022	3.27	6.35	<0.2	267	1.44	266	2.64	16.8
Downgradient	GC-AP-MW-11	03/30/2022	4.5	7.52	<0.2	118	0.579	117	1.27 J	12.7
Downgradient	GC-AP-MW-12	03/29/2022	2.29	6.17	<0.2	126	-10000	126	1.07 J	11.8
Downgradient	GC-AP-MW-13	04/06/2022	2.05	6.61	0.746	66.8	-10000	66.8	1.84 J	3.71
Downgradient	GC-AP-MW-14	04/04/2022	4.91	10.4	0.263 J	405	0.741	404	2.77	9.75
Downgradient	GC-AP-MW-15	03/29/2022	2.25	10.3	<0.2	183	-10000	183	1.41 J	10.3
Downgradient	GC-AP-MW-16	04/06/2022	3.32	12.6	<0.2	449	0.61	448	2.05	12
Downgradient	GC-AP-MW-17	04/04/2022	2.42	12.5	<0.2	505	6.18	499	2.06	8.06
Downgradient	GC-AP-MW-18	04/06/2022	3.57	6.15	<0.2	371	-10000	371	2.32	24.7
Downgradient	GC-AP-MW-2	03/28/2022	6.02	5.82	<0.2	26.2	-10000	26.2	1.79 J	11.5
Downgradient	GC-AP-MW-21	03/30/2022	1.94	8.06	<0.2	190	-10000	190	1.26 J	12.1
Downgradient	GC-AP-MW-25	03/29/2022	0.286	1.02	<0.2	70.3	-10000	69.8	1 J	29.6

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.

**Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfate mg/L
Upgradient	GC-AP-MW-23	03/28/2022	11.8
Upgradient	GC-AP-MW-24	04/04/2022	90.2
Upgradient	GC-AP-MW-26	04/04/2022	12.5
Upgradient	GC-AP-MW-27	03/28/2022	6.24
Upgradient	GC-AP-MW-28	03/28/2022	11.2
Upgradient	GC-AP-MW-29	03/28/2022	1.29 J
Upgradient	GC-AP-MW-30	03/28/2022	0.951 J
Downgradient	GC-AP-MW-1	04/04/2022	801
Downgradient	GC-AP-MW-10	04/04/2022	111
Downgradient	GC-AP-MW-11	03/30/2022	125
Downgradient	GC-AP-MW-12	03/29/2022	108
Downgradient	GC-AP-MW-13	04/06/2022	157
Downgradient	GC-AP-MW-14	04/04/2022	192
Downgradient	GC-AP-MW-15	03/29/2022	165
Downgradient	GC-AP-MW-16	04/06/2022	45.3
Downgradient	GC-AP-MW-17	04/04/2022	65.5
Downgradient	GC-AP-MW-18	04/06/2022	16.3
Downgradient	GC-AP-MW-2	03/28/2022	563
Downgradient	GC-AP-MW-21	03/30/2022	115
Downgradient	GC-AP-MW-25	03/29/2022	68.6

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5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.

**Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Iron Total mg/L	Magnesium Total mg/L	Silicon mg/L	Sodium mg/L	Calcium mg/L	Silica mg/L	Aluminum mg/L
Downgradient	GC-AP-MW-3	04/05/2022	0	45.2	4.51	4.4	29.6	67.4	9.42	<0.00609
Downgradient	GC-AP-MW-31	03/28/2022	0	0.116	1.23	4.63	6.17	5.95	9.91	0.0347
Downgradient	GC-AP-MW-32	03/28/2022	0	<0.00812	0.709	5.46	3.92	9.61	11.7	0.00656 J
Downgradient	GC-AP-MW-33	03/28/2022	0	0.00821 J	2.92	3.35	5.32	2.21	7.17	0.151
Downgradient	GC-AP-MW-5	04/04/2022	0	34	20.2	8.43	21.5	98.8	18	<0.00609
Downgradient	GC-AP-MW-6	03/29/2022	0	0.504	26.1	9.59	115	128	20.5	<0.00609
Downgradient	GC-AP-MW-7	03/29/2022	0	0.0181 J	15.7	7.91	192	126	16.9	<0.00609
Downgradient	GC-AP-MW-8	03/29/2022	0	0.0273 J	18.2	6.99	168	92.8	15	<0.00609
Downgradient	GC-AP-MW-9	03/29/2022	0	5.27	30.1	4.08	171	72.1	8.73	<0.00609
Horiz. Delineation	GC-AP-MW-34HA	03/28/2022	0	<0.00812	1.9	4.7	14	10.8	10.1	0.0131
Horiz. Delineation	GC-AP-MW-35H	04/06/2022	0	<0.00812	2.95	3.3	2.05	22.5	7.06	<0.00609
Horiz. Delineation	GC-AP-MW-36H	03/30/2022	0	0.25	0.093 J	6.06	68.5	1.01	13	0.715
Horiz. Delineation	GC-AP-MW-37H	03/29/2022	0	43.4	19.9	7.05	21.2	118	15.1	<0.00609
Horiz. Delineation	GC-AP-MW-38H	03/30/2022	0	0.021 J	7.55	4.5	3.63	93.5	9.63	0.00814 J
Horiz. Delineation	GC-AP-MW-39H	04/06/2022	0	27.4	22.8	4.78	30.5	119	10.2	<0.00609
Horiz. Delineation	GC-AP-MW-40H	03/30/2022	0	0.39	24.9	2.97	19.4	96	6.36	<0.00609
Horiz. Delineation	GC-AP-MW-41H	04/06/2022	0	9.97	14.1	4.22	30	110	9.03	0.0471
Horiz. Delineation	GC-AP-MW-42H	04/06/2022	0	17.6	13.4	4.77	36.8	69.6	10.2	0.0104
Horiz. Delineation	GC-AP-MW-43H	04/06/2022	0	11.9	31.7	4.28	49.9	110	9.16	0.0061 J
Horiz. Delineation	GC-AP-MW-44H	04/04/2022	0	6.24	19.7	4.36	28.3	137	9.33	0.00863 J

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**Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Alkalinity Total as CaCO3 mg/L	Carbonate Alkalinity as CaCO3 mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Carbon, Total Organic mg/L	Chloride mg/L
Downgradient	GC-AP-MW-3	04/05/2022	0.356	0.817	0.207 J	287	-10000	287	9.87	21.3
Downgradient	GC-AP-MW-31	03/28/2022	0.00643	1.07	0.854	24.7	-10000	24.7	<1	6
Downgradient	GC-AP-MW-32	03/28/2022	<0.000152	0.712	0.385	29.2	-10000	29.2	<1	3.98
Downgradient	GC-AP-MW-33	03/28/2022	0.0176	3.87	3.6	1.92	-10000	1.92	<1	5.47
Downgradient	GC-AP-MW-5	04/04/2022	1.99	6.46	0.224 J	234	0.551	233	1.69 J	9.63
Downgradient	GC-AP-MW-6	03/29/2022	0.743	0.797	<0.2	436	-10000	436	1.35 J	45.3
Downgradient	GC-AP-MW-7	03/29/2022	0.59	0.942	<0.2	493	2.59	490	1.22 J	94.7
Downgradient	GC-AP-MW-8	03/29/2022	1.53	0.741	<0.2	473	0.672	472	1.71 J	95.4
Downgradient	GC-AP-MW-9	03/29/2022	5.83	5.57	<0.2	227	1.31	226	1.9 J	225
Horiz. Delineation	GC-AP-MW-34HA	03/28/2022	0.00627	0.844	1.54	32.9	-10000	32.9	1.28 J	3.52
Horiz. Delineation	GC-AP-MW-35H	04/06/2022	0.00197	1.46	0.878	40.9	-10000	40.9	<1	1.48
Horiz. Delineation	GC-AP-MW-36H	03/30/2022	0.0035	0.628	<0.2	139	2.18	137	<1	3.04
Horiz. Delineation	GC-AP-MW-37H	03/29/2022	4.06	1.79	<0.2	182	-10000	182	2.88	5.57
Horiz. Delineation	GC-AP-MW-38H	03/30/2022	0.0272	2.1	0.386	222	-10000	222	1.25 J	3.8
Horiz. Delineation	GC-AP-MW-39H	04/06/2022	4.23	11.2	<0.2	369	-10000	369	1.78 J	8.43
Horiz. Delineation	GC-AP-MW-40H	03/30/2022	3.33	10.1	<0.2	96.2	-10000	96.2	1.28 J	5.72
Horiz. Delineation	GC-AP-MW-41H	04/06/2022	4.07	6.27	<0.2	148	-10000	148	1.62 J	13.6
Horiz. Delineation	GC-AP-MW-42H	04/06/2022	6.7	4.25	<0.2	221	-10000	221	2.63	15.9
Horiz. Delineation	GC-AP-MW-43H	04/06/2022	9.68	8.8	<0.2	370	-10000	370	2.1	37.1
Horiz. Delineation	GC-AP-MW-44H	04/04/2022	9.81	2.72	<0.2	91.1	-10000	91	1.27 J	13.7

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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Greene County Ash Pond 03/23/2022 - 05/17/2022

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfate mg/L
Downgradient	GC-AP-MW-3	04/05/2022	15.2
Downgradient	GC-AP-MW-31	03/28/2022	3.34
Downgradient	GC-AP-MW-32	03/28/2022	2.55
Downgradient	GC-AP-MW-33	03/28/2022	11.8
Downgradient	GC-AP-MW-5	04/04/2022	160
Downgradient	GC-AP-MW-6	03/29/2022	190
Downgradient	GC-AP-MW-7	03/29/2022	187
Downgradient	GC-AP-MW-8	03/29/2022	75.3
Downgradient	GC-AP-MW-9	03/29/2022	193
Horiz. Delineation	GC-AP-MW-34HA	03/28/2022	27
Horiz. Delineation	GC-AP-MW-35H	04/06/2022	32.3
Horiz. Delineation	GC-AP-MW-36H	03/30/2022	10.3
Horiz. Delineation	GC-AP-MW-37H	03/29/2022	303
Horiz. Delineation	GC-AP-MW-38H	03/30/2022	51.9
Horiz. Delineation	GC-AP-MW-39H	04/06/2022	34.9
Horiz. Delineation	GC-AP-MW-40H	03/30/2022	290
Horiz. Delineation	GC-AP-MW-41H	04/06/2022	236
Horiz. Delineation	GC-AP-MW-42H	04/06/2022	95.9
Horiz. Delineation	GC-AP-MW-43H	04/06/2022	106
Horiz. Delineation	GC-AP-MW-44H	04/04/2022	390

Notes:

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

Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Iron Total mg/L	Magnesium Total mg/L	Silicon mg/L	Sodium mg/L	Calcium mg/L	Silica mg/L	Aluminum mg/L
Horiz. Delineation	GC-AP-MW-45H	03/29/2022	0	0.516	38.1	2.54	25.9	110	5.44	0.0199
Horiz. Delineation	GC-AP-MW-46HO	03/23/2022	--	0.0155 J	19.5	2.3	15.1	53.1	4.92	0.0164
Horiz. Delineation	GC-AP-MW-47HO	03/23/2022	--	0.0147 J	5.45	3.37	16.4	21.1	7.21	0.0132
Horiz. Delineation	GC-AP-MW-48H	03/30/2022	0	<0.00812	3.64	4.02	6.31	13.4	8.6	<0.00609
Horiz. Delineation	GC-AP-MW-49H	03/30/2022	0	0.154	7.85	2.97	18.5	27.8	6.36	0.0667
Horiz. Delineation	GC-AP-MW-50HO	03/23/2022	--	0.118	7.34	3.96	31.4	38.7	8.47	0.0679
Horiz. Delineation	GC-AP-MW-52HO	03/23/2022	--	0.57	23.7	4.46	71.6	66	9.54	0.0218
Horiz. Delineation	GC-AP-MW-53H	04/06/2022	0	65.8	11.3	6.54	22.1	78.5	14	0.0512
Horiz. Delineation	GC-AP-MW-54H	04/05/2022	0	38.9	19.5	7.1	20	95.6	15.2	0.041
Horiz. Delineation	GC-AP-MW-55HO	03/23/2022	--	0.132	1.73	4.97	5.78	2.26	10.6	0.0871
Horiz. Delineation	GC-AP-MW-57H	04/05/2022	0	8.59	5.06	5.24	22.1	17.8	11.2	0.165
Horiz. Delineation	GC-AP-MW-59HO	03/23/2022	--	0.353	16.6	3.16	27.7	63.2	6.76	0.0335
Horiz. Delineation	GC-AP-MW-60HO	03/23/2022	--	0.0117 J	0.857	4.77	6.25	2.95	10.2	0.0343
Horiz. Delineation	GC-AP-MW-61HO	03/23/2022	--	0.0281 J	1.33	3.48	1.6	22.4	7.45	0.0619
Horiz. Delineation	GC-AP-MW-62HO	03/23/2022	--	0.192	1.26	3.16	3.28	8.23	6.76	0.157
Horiz. Delineation	GC-AP-MW-63HO	03/23/2022	--	0.015 J	1.28	3.05	2.92	6.43	6.53	0.03
Horiz. Delineation	GC-AP-MW-64HO	03/23/2022	--	0.142	22.4	3.06	24.6	63.2	6.55	0.0956
Horiz. Delineation	GC-AP-PZ-4	04/05/2022	0	73.3	43.4	5.02	24.6	209	10.7	0.233

Notes:

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

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Greene County Ash Pond 03/23/2022 - 05/17/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Alkalinity Total as CaCO3 mg/L	Carbonate Alkalinity as CaCO3 mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Carbon, Total Organic mg/L	Chloride mg/L
Horiz. Delineation	GC-AP-MW-45H	03/29/2022	6.27	7.63	<0.2	133	1.27	132	1.38 J	9.58
Horiz. Delineation	GC-AP-MW-46HO	03/23/2022	5.17	5.5	<0.2	103	0.58	102	1.06 J	7.84
Horiz. Delineation	GC-AP-MW-47HO	03/23/2022	0.127	3.48	<0.2	42.9	-10000	42.6	<1	8.8
Horiz. Delineation	GC-AP-MW-48H	03/30/2022	0.0906	2.65	<0.2	30.5	-10000	30.5	<1	3.44
Horiz. Delineation	GC-AP-MW-49H	03/30/2022	1.9	4.72	<0.2	45.3	-10000	45.3	<1	8.12
Horiz. Delineation	GC-AP-MW-50HO	03/23/2022	7.15	5.56	<0.2	138	1.02	137	1.08 J	17.7
Horiz. Delineation	GC-AP-MW-52HO	03/23/2022	10.7	4.16	<0.2	265	0.768	264	1.66 J	123
Horiz. Delineation	GC-AP-MW-53H	04/06/2022	2.65	4.57	0.32	225	-10000	225	5.42	8.07
Horiz. Delineation	GC-AP-MW-54H	04/05/2022	1.86	5.86	0.217 J	285	-10000	285	2.09	8.13
Horiz. Delineation	GC-AP-MW-55HO	03/23/2022	0.00971	1.85	0.283 J	10	-10000	10	<1	4.56
Horiz. Delineation	GC-AP-MW-57H	04/05/2022	0.493	3.1	0.445	55.1	-10000	55.1	5.11	20
Horiz. Delineation	GC-AP-MW-59HO	03/23/2022	10.3	3.94	<0.2	63.3	-10000	62.9	1.07 J	9.19
Horiz. Delineation	GC-AP-MW-60HO	03/23/2022	0.0149	1.07	<0.2	12.4	-10000	12.4	<1	4.08
Horiz. Delineation	GC-AP-MW-61HO	03/23/2022	0.0117	1.2	<0.2	60.2	-10000	60.1	<1	2.07
Horiz. Delineation	GC-AP-MW-62HO	03/23/2022	0.0309	0.836	<0.2	13.5	-10000	13.5	<1	3.19
Horiz. Delineation	GC-AP-MW-63HO	03/23/2022	0.0193	0.824	0.211 J	4.04	-10000	4.03	<1	2.42
Horiz. Delineation	GC-AP-MW-64HO	03/23/2022	5.42	5.66	<0.2	142	0.78	141	1.07 J	16.1
Horiz. Delineation	GC-AP-PZ-4	04/05/2022	13.3	6.97	0.382	66	-10000	66	1.44 J	7.86

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.

**Analytical Results Summary
Plant Greene County Ash Pond
03/23/2022 - 05/17/2022**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfate mg/L
Horiz. Delineation	GC-AP-MW-45H	03/29/2022	337
Horiz. Delineation	GC-AP-MW-46HO	03/23/2022	131
Horiz. Delineation	GC-AP-MW-47HO	03/23/2022	61.1
Horiz. Delineation	GC-AP-MW-48H	03/30/2022	36.4
Horiz. Delineation	GC-AP-MW-49H	03/30/2022	106
Horiz. Delineation	GC-AP-MW-50HO	03/23/2022	60.4
Horiz. Delineation	GC-AP-MW-52HO	03/23/2022	38.9
Horiz. Delineation	GC-AP-MW-53H	04/06/2022	117
Horiz. Delineation	GC-AP-MW-54H	04/05/2022	114
Horiz. Delineation	GC-AP-MW-55HO	03/23/2022	8.46
Horiz. Delineation	GC-AP-MW-57H	04/05/2022	52
Horiz. Delineation	GC-AP-MW-59HO	03/23/2022	225
Horiz. Delineation	GC-AP-MW-60HO	03/23/2022	6.73
Horiz. Delineation	GC-AP-MW-61HO	03/23/2022	10.1
Horiz. Delineation	GC-AP-MW-62HO	03/23/2022	15.9
Horiz. Delineation	GC-AP-MW-63HO	03/23/2022	18.5
Horiz. Delineation	GC-AP-MW-64HO	03/23/2022	156
Horiz. Delineation	GC-AP-PZ-4	04/05/2022	833

Notes:

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

Appendix A



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-23																					
		02/17/2016	04/12/2016	06/01/2016	08/16/2016	10/11/2016	11/02/2016	01/24/2017	03/14/2017	05/09/2017	06/27/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/12/2020	03/10/2021	08/24/2021	03/28/2022
Appendix III																							
Boron	mg/L	0.0271 J	<0.02	<0.02	<0.02	0.024 J	--	0.0333 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	38.7	42.7	41.8	40.9	38.1	--	27.7	--	29.3	28.6	32.3	--	34.5	32	30.3	31.3	30.7	30.8	28	26.6	26.3	26.3
Chloride	mg/L	1.54	1.51	1.46	1.5	1.52	--	1.38	--	2.4	2.1	2.4	--	1.7 J	1.5 J	1.4 J	1.23	1.38	1.08	1.28	1.3	1.19	1.09
Fluoride	mg/L	0.08 J	0.077 J	0.101 J	0.093 J	0.059 J	--	--	0.07 J	0.08 J	0.08 J	0.1	0.08 J	0.09 J	--	0.08 J	0.123	0.0914 J	0.095 J	0.0867 J	0.085 J	0.0713 J	<0.06
pH_Field	pH	6.8	6.54	6.49	6.57	6.54	--	6.42	--	6.42	6.44	6.43	6.49	6.43	6.35	6.37	6.46	5.85	6.26	6.03	6.17	6.09	6.08
Sulfate	mg/L	14.7	20	20.1	19.1	18.4	--	15	--	14	14	16	--	14	13	14	12.3	12.4	10.2	10.2	11.8	11.6	11.8
TDS	mg/L	142	155	148	132	--	115	107	--	80.7	96.7	120	--	113	108	96.7	103	107	107	96	105	96.7	96
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000886 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	7.36e-005 J	<8.1e-005
Barium	mg/L	0.0285	0.035	0.0328	0.033	0.0352	--	0.0286	--	0.0257	0.0246	--	0.0287	0.0279	--	0.0281	0.0295	0.0338	0.0296	0.0311	0.0305	0.0311	0.0264
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000432 J	0.000426 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.044 U	0.213 U	0.184 U	--	0.251 U	--	0.631	0.145 U	--	0.402 U	0.313 U	--	0.496 U	0.315 U	0.219 U	0.166 U	0.986	1.01 U	0.735 U	0.99 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000179 J	0.000167 J	0.000124 J
Selenium	mg/L	<0.002	0.00205 J	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00117	0.00113	0.000989 J
Thallium	mg/L	0.000364 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-24																					
		02/17/2016	04/12/2016	06/01/2016	08/16/2016	10/11/2016	11/02/2016	01/24/2017	03/14/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/22/2020	08/12/2020	03/10/2021	08/24/2021	04/04/2022
Appendix III																							
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	6.54	6.15	5.7	6.77	8.84	--	12.8	--	12.4	17.9	19	--	30	28.7	30.7	32.3	32.8	31.4	35.8	42.8	36.5	38.3
Chloride	mg/L	3.3	3.25	3.55	3.45	3.78	--	4.61	--	5.9	5.7	6.8	--	7.9	6.1	5.2	6.92	4.39	2.75	4.14	3.51	3.45	3.09
Fluoride	mg/L	0.02 J	0.026 J	0.057 J	0.046 J	<0.01	--	--	<0.032	<0.032	<0.032	0.04 J	<0.032	0.04 J	--	<0.032	<0.05	0.0545 J	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	5.39	5.29	5.39	5.51	5.44	--	5.44	--	5.43	5.49	5.46	5.48	5.31	5.36	5.34	5.32	4.9	5.3	5.04	5.14	5.16	4.4
Sulfate	mg/L	10.4	11.3	10.4	12.2	19.8	--	30.7	--	33	56	61	--	97	83	91	103	83.4	84.7	82.2	99.9	83.3	90.2
TDS	mg/L	53	38.7	46	48	--	66.7	78.7	--	92.7	118	128	--	171	170	163	174	167	162	165	179	167	155
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000858 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00045	0.000244	0.000297
Barium	mg/L	0.0305	0.0312	0.0298	0.0308	0.042	--	0.0446	--	0.0568	0.0663	--	0.101	0.108	--	0.1	0.0978	0.0967	0.0738	0.0788	0.0873	0.0695	0.0637
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000433 J	0.000339 J	0.000232 J
Cobalt	mg/L	0.00219 J	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000676	0.000699	0.000726
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.407	0.547 U	0.845	--	0.403 U	--	0.645	0.93	--	1.88	1.13	--	1.72	1.21	1.21	0.791	0.919	2.15	1.23	1.43
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	0.00268 J	--	0.00281 J	0.00294 J	--	<0.002	0.00208 J	<0.002	<0.002	<0.002	0.00139	0.000957 J	0.000931 J
Thallium	mg/L	0.00039 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-26																						
		08/17/2016	09/20/2016	10/12/2016	11/15/2016	11/29/2016	01/04/2017	01/23/2017	03/13/2017	05/09/2017	06/27/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	04/04/2022	
Appendix III																								
Boron	mg/L	<0.02	<0.02	<0.02	<0.02	--	<0.02	0.0217 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	5.88	5.95	6.1	6.28	--	4.97	5.17	--	15.7	14.2	11.1	--	3.93	3.76	4.81	3.18	3.98	3.83	4.58	4.67	4.84	6.7	
Chloride	mg/L	2.44	2.54	2.67	2.94	--	2.92	3.21	--	2.5	3	3.6	--	2.2	1.5 J	2.5	2	2.34	2.04	2.16	2.83	2.97	2.93	
Fluoride	mg/L	0.159 J	0.126 J	0.1 J	0.016 J	--	<0.01	--	0.31	0.25	0.22	0.22	0.08 J	0.07 J	--	0.07 J	<0.05	0.0716 J	<0.06	<0.06	<0.06	<0.06	<0.06	
pH_Field	pH	5.85	5.82	5.76	5.79	--	5.69	5.45	--	4.82	5.27	5.28	5.11	5.24	5.28	5.54	5.4	5.53	5.3	4.79	5.32	5.25	5.2	
Sulfate	mg/L	16.2	14.9	12.4	8.6	--	12.2	16	--	55	45	37	--	9.3	7.8	6	6.86	5.29	6.28	9.57	7.66	7.07	12.5	
TDS	mg/L	64	60	54.7	--	42	56	50.7	--	126	93.3	84	--	38.7	35.3	40.7	36.7	40.7	39.3	42	42.7	43.3	40.7	
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	0.001 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	0.0017 J	0.00283 J	0.00218 J	0.00124 J	--	0.0028 J	0.00257 J	--	0.00138 J	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000125 J	0.000157 J	0.000112 J	
Barium	mg/L	0.0476	0.0436	0.0397	0.0369	--	0.0518	0.0662	--	0.0691	0.0603	--	0.0386	0.0356	--	0.0387	0.0419	0.0468	0.0439	0.0409	0.0351	0.0311	0.0345	
Beryllium	mg/L	0.00161 J	0.00155 J	0.00138 J	0.00109 J	--	0.00141 J	0.00171 J	--	0.00226 J	0.0017 J	--	0.00147 J	0.000821 J	--	0.000757 J	0.00092 J	<0.0006	0.000756 J	0.000828 J	0.000453 J	0.000409 J	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	0.000706 J	0.000429 J	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000474 J	0.000225 J	0.000266 J	
Cobalt	mg/L	0.0167	0.0122	0.00839 J	0.00562 J	--	0.00655 J	0.0116	--	0.0167	0.0109	--	0.00278 J	0.00223 J	--	0.00202 J	<0.002	<0.002	<0.002	0.00279 J	0.000606	0.000669	0.000448	
Combined Radium 226 + 228	pCi/L	0.66	0.582	-0.183 U	0.262 U	--	0.255 U	0.871	--	0.575	0.459	--	1.3	0.269 U	--	0.328 U	0.571	0.561	0.215 U	2.3	0.347 U	0.327 U	0.55 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	6.99e-005 J	6.96e-005 J	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00247 J	--	0.0072 J	0.00443 J	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-27																					
		08/17/2016	09/20/2016	10/12/2016	11/15/2016	11/29/2016	01/04/2017	01/23/2017	03/14/2017	05/09/2017	06/27/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	03/28/2022
Appendix III																							
Boron	mg/L	<0.02	<0.02	0.02 J	<0.02	--	<0.02	0.0287 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	1.1	0.771	0.711	0.641	--	0.797	0.655	--	0.538	0.413 J	0.504	--	0.339 J	0.776	0.746	0.526	0.638	1.15	0.884	0.745	1.11	1.37
Chloride	mg/L	1.78	1.61	1.51	1.5	--	1.53	1.62	--	2.2	1.9 J	2	--	1.9 J	<1.4	1.9 J	2.18	1.7	1.9	1.63	2.46	2.45	1.96
Fluoride	mg/L	0.039 J	0.01 J	<0.01	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	5.47	5.22	5.1	5.07	--	5.3	5.12	--	4.83	4.87	4.71	4.96	5	4.94	4.9	4.96	4.85	4.29	4.75	4.73	4.52	4.73
Sulfate	mg/L	0.928 J	0.478 J	0.727 J	0.448 J	--	0.627 J	1.34	--	<1.4	<1.4	<1.4	--	2.1 J	<1.4	<1.4	1.66	1.29	2.21	1.57	2.5	3.18	6.24
TDS	mg/L	36.7	25.3	--	--	--	27.3	--	--	28.7	27.3	30.7	--	26	--	26	--	27.3	30.7	27.3	30.7	28.7	32.7
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	0.00083 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.00137 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<8.1e-005
Barium	mg/L	0.0803	0.0679	0.0644	0.0628	--	0.0477	0.0482	--	0.0611	0.0492	--	0.0463	0.0298	--	0.0582	0.0499	0.0574	0.0827	0.0734	0.069	0.0607	0.0613
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	0.000211 J	<0.0002	<0.0002	0.000216 J	--	<0.0002	0.000231 J	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0001 J	0.000184 J	0.000172 J
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000541 J	0.000321 J	0.000205 J
Cobalt	mg/L	0.00692 J	0.00232 J	<0.002	<0.002	--	<0.002	0.00203 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000139 J	0.00016 J	0.00016 J
Combined Radium 226 + 228	pCi/L	0.386 U	0.794	0.81	0.366 U	--	0.356 U	0.429 U	--	0.62	0.319 U	--	0.271 U	0.391	--	0.646	0.498	0.368 U	0.55	0.504 U	0.578 U	0.941 U	0.733 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-28																						
		08/17/2016	09/20/2016	10/12/2016	10/31/2016	11/15/2016	11/29/2016	01/04/2017	01/24/2017	03/14/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	03/28/2022
Appendix III																								
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	0.0331 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	7.74	2.43	2.46	--	2.28	--	2.7	4.19	--	3.28	3.76	2.31	--	2.76	2.04	2	2.13	1.98	2.41	2.23	1.73	1.94	1.94
Chloride	mg/L	1.77	1.56	1.54	--	1.53	--	1.58	1.71	--	2.1	2	1.5 J	--	1.2 J	<1.4	<1.4	1.2	1.26	1.32	1.38	1.27	1.42	1.35
Fluoride	mg/L	0.055 J	0.021 J	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	0.0649 J	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	6.15	4.99	4.88	--	4.81	--	4.88	5.4	--	4.96	5.34	4.69	4.91	4.87	4.65	4.67	4.92	4.33	4.07	4.59	4.45	3.78	4.69
Sulfate	mg/L	6.46	8.3	8.36	--	8.75	--	7.85	6.62	--	5.6	5.3	8.2	--	8.3	8.9	8.6	10.1	10.6	9.4	10.3	10.4	10.1	11.2
TDS	mg/L	65.3	44	--	38.7	--	34	42	45.3	--	49.3	46	38.7	--	34.7	34.7	36	30	40	36	35.3	30	32	38.7
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00096 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.000975 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	9.03e-005 J	<8.1e-005
Barium	mg/L	0.336	0.341	0.347	--	0.332	--	0.299	0.264	--	0.322	0.278	0.312	0.243	--	0.249	0.232	0.246	0.219	0.211	0.222	0.198	0.184	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	0.000742 J	0.000857 J	0.000912 J	--	0.000821 J	--	0.000718 J	0.000716 J	--	0.000746 J	0.00065 J	--	0.000752 J	0.000731 J	--	0.000646 J	0.000582 J	0.000573 J	0.00052 J	0.000476 J	0.000536	0.000421	0.000379
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000995 J	0.000708 J	0.000634 J
Cobalt	mg/L	0.00599 J	0.00466 J	0.00394 J	--	0.00296 J	--	0.00448 J	0.00259 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000452	0.000362	0.000517
Combined Radium 226 + 228	pCi/L	1.47	1.24	0.899	--	0.933	--	1.54	0.868	--	1.22	0.925	--	0.0271 U	0.792	--	0.926	1.08	0.995	0.307 U	0.797	1.5	0.779 U	0.554 U
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-29																						
		08/16/2016	09/20/2016	10/11/2016	10/31/2016	11/15/2016	11/29/2016	01/04/2017	01/26/2017	03/13/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	03/28/2022
Appendix III																								
Boron	mg/L	<0.02	<0.02	<0.02	--	0.0229 J	--	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	2.02	1.22	1.48	--	1.36	--	1.11	1.03	--	0.289 J	0.292 J	0.336 J	--	0.2 J	0.171 J	0.193 J	0.223 J	0.158 J	0.287 J	0.231 J	0.239 J	0.283 J	0.172 J
Chloride	mg/L	2.21	2.12	2.24	--	6.65	--	2.15	2.31	--	2.3	2.1	2.8	--	1.8 J	<1.4	<1.4	1.07	1.19	1.09	1.05	1.25	1.42	1.24
Fluoride	mg/L	0.05 J	0.015 J	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	6.21	6.05	6.2	--	6.64	--	6.06	6.02	--	5.05	4.9	4.73	4.87	4.89	4.88	4.86	4.97	3.96	3.9	4.22	4.79	3.94	4.67
Sulfate	mg/L	0.894 J	<0.3	<0.3	--	1.19	--	<0.3	0.6 J	--	<1.4	<1.4	<1.4	--	1.4 J	<1.4	<1.4	0.594 J	<0.5	0.694 J	0.608 J	<0.5	0.86 J	1.24 J
TDS	mg/L	41.3	42.7	--	140	--	78	34	32.7	--	--	30.7	25.3	--	--	--	--	--	--	--	--	--	--	--
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00092 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00199 J	0.00155 J	0.00231 J	--	0.0044 J	--	0.00123 J	0.00169 J	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	9.45e-005 J	<8.1e-005
Barium	mg/L	0.0527	0.0698	0.0799	--	0.0479	--	0.0513	0.0674	--	0.0836	0.0661	--	0.05	0.0433	--	0.0379	0.0348	0.0404	0.0542	0.0442	0.0545	0.0554	0.0329
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	0.000228 J	--	0.000277 J	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000204	0.000193 J	0.000159 J
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000393 J	0.000256 J	0.00025 J
Cobalt	mg/L	0.0122	0.012	0.0135	--	0.00938 J	--	0.00859 J	0.0104	--	0.0119	0.0106	--	0.0027 J	0.00317 J	--	0.00367 J	<0.002	0.00265 J	<0.002	0.00224 J	0.00145	0.0019	0.000787
Combined Radium 226 + 228	pCi/L	0.522	0.746	0.819	--	0.516	--	0.648 U	0.852	--	0.148 U	0.393	--	0.695	0.145 U	--	0.513 U	0.598	0.237 U	0.201 U	3.88	0.618 U	0.937 U	0.529 U
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	0.00308 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-30																						
		08/16/2016	09/20/2016	10/11/2016	10/31/2016	11/15/2016	11/29/2016	01/04/2017	01/23/2017	03/14/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	03/28/2022
Appendix III																								
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	1.24	1.11	1.22	--	1.34	--	2.39	1.83	--	0.823	0.956	1.04	--	1.18	1.5	1.64	1.3	0.925	0.864	0.926	0.646	0.716	0.542
Chloride	mg/L	2.54	2.51	2.34	--	2.1	--	2.44	2.37	--	2.8	2.1	3	--	2.3	1.5 J	1.4 J	2.28	3.72	3.89	3.8	4.38	4.46	4.12
Fluoride	mg/L	0.036 J	<0.01	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	5.39	5.37	5.39	--	5.33	--	5.49	5.48	--	5.11	5.29	5.09	5.25	5.12	5.19	5.12	5.16	4.11	4.44	4.76	5.02	4.01	4.93
Sulfate	mg/L	0.702 J	<0.3	<0.3	--	<0.3	--	<0.3	0.493 J	--	<1.4	<1.4	<1.4	--	<1.4	<1.4	<1.4	<0.5	<0.5	<0.5	<0.5	<0.5	0.754 J	0.951 J
TDS	mg/L	--	26.7	--	25.3	--	--	34.7	33.3	--	--	--	28	--	28.7	29.3	--	27.3	34	26.7	30	30	28.7	27.3
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.000701 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<8.1e-005
Barium	mg/L	0.0376	0.0348	0.0396	--	0.0359	--	0.0238	0.029	--	0.0409	0.0303	--	0.0383	0.0633	--	0.0463	0.104	0.0855	0.0485	0.0529	0.0462	0.0329	0.0286
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	8.19e-005 J	8.39e-005 J
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000502 J	0.000326 J
Cobalt	mg/L	0.00548 J	0.0026 J	0.00214 J	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000137 J	0.000112 J
Combined Radium 226 + 228	pCi/L	0.434 U	0.51	0.166 U	--	0.589	--	0.659	0.227 U	--	0.436 U	0.197 U	--	0.896	0.342 U	--	0.928	1.3	0.995	0.00976 U	3.33	0.601 U	1.22 U	0.714 U
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-1																				
		02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/04/2018	09/10/2018	11/06/2018	03/27/2019	09/10/2019	04/21/2020	08/17/2020	03/16/2021	08/17/2021	04/04/2022
Appendix III																						
Boron	mg/L	0.219	0.211	0.2	0.211	0.23	0.218	--	0.235	0.206	0.138	--	0.242	--	0.247	0.488	0.398	0.347	0.496	0.313	0.281	0.269
Calcium	mg/L	204	152	183	197	186	193	--	184	184	182	--	157	219	186	73.8	147	90.5	81.5	109	103	106
Chloride	mg/L	16	21.5	52.5	33.3	22.2	18.4	--	30	29	23	--	22	22	17	18	18.1	19.5	23.2	16.6	34.4	41.2
Fluoride	mg/L	0.05 J	0.061 J	0.079 J	0.081 J	0.049 J	--	0.04 J	0.05 J	0.04 J	0.04 J	0.07 J	0.07 J	--	0.04 J	0.192	0.179	0.12	0.115	0.129	0.158	0.161
pH_Field	pH	5.8	5.85	5.92	5.99	6.02	5.92	5.96	5.93	5.86	5.88	5.92	5.89	5.89	5.95	5.8	5.88	5.72	5.54	5.67	5.49	5.17
Sulfate	mg/L	785	715	832	862	888	906	--	810	830	910	--	850	920	880	1090	992	874	919	933	745	801
TDS	mg/L	1540	1200	1440	1420	1420	1350	--	1540	1470	1530	--	1370	1380	1450	1910	1740	1530	1590	1620	1340	1280
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000799 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0181	0.0178	0.016	0.0182	0.0186	0.0173	--	0.0176	0.0165	--	0.0201	0.0195	--	0.0189	0.0267	0.0226	0.0219	0.0265	0.0238	0.0206	0.0164
Barium	mg/L	0.0364	0.0344	0.0353	0.0395	0.0455	0.0428	--	0.0399	0.0348	--	0.0398	0.0314	--	0.0348	0.0286	0.0283	0.0206	0.0218	0.024	0.0211	0.0235
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000341 J	0.000336 J	0.000279 J
Cobalt	mg/L	0.0395	0.0452	0.0576	0.0573	0.0531	0.0539	--	0.057	0.0664	--	0.0652	0.0758	--	0.0898	0.176	0.104	0.206	0.195	0.257	0.24	0.298
Combined Radium 226 + 228	pCi/L	1 U	1.0468 U	1.43	1.42	1.6	1.3	--	0.844	1.32	--	0.815	1.01	--	0.938	1.17	1.39	0.712	1.46	1.45	1.36	0.899
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	0.0194 J	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000117 J	<6.8e-005	<0.000102
Selenium	mg/L	0.00277 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00206 J	--	0.00206 J	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00163	0.00209	0.00221
Thallium	mg/L	0.000601 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000107 J	0.000124 J	0.000158 J

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-2																				
		02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/30/2017	02/27/2018	06/04/2018	09/10/2018	11/06/2018	03/27/2019	09/09/2019	04/21/2020	08/17/2020	03/16/2021	08/17/2021	03/28/2022
Appendix III																						
Boron	mg/L	0.146	0.125	0.114	0.128	0.129	0.124	--	0.121	0.111	0.0915 J	--	0.134	--	0.131	0.138	0.157	0.14	0.152	0.134	0.131	0.0991 J
Calcium	mg/L	75	70.2	71.2	72.2	73.8	72.2	--	66.4	65.4	67.8	--	68.3	73.9	75.1	96.1	111	133	156	145	143	152
Chloride	mg/L	14.7	14.3	14.6	14.7	14.8	15	--	16	15	15	--	16	17	17	14.8	14	12.3	13.1	11.6	12.7	11.5
Fluoride	mg/L	0.09 J	0.092 J	0.108 J	0.105 J	0.062 J	--	<0.032	0.07 J	0.09 J	0.07 J	0.08 J	0.09 J	--	0.07 J	0.089 J	0.163	0.126	0.0753 J	0.185	0.0974 J	0.105 J
pH_Field	pH	6.01	6.17	6.18	6.12	6.09	6.04	6.11	6.1	6.09	6.07	6.09	6.07	6	6.04	6.06	6.13	5.99	5.91	5.87	5.99	5.32
Sulfate	mg/L	304	307	273	275	284	302	--	250	230	250	--	260	280	280	375	385	522	497	548	502	563
TDS	mg/L	516	508	494	476	508	510	--	510	480	478	--	528	472	522	562	666	878	818	890	808	892
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00084 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0142	0.0145	0.0112	0.0154	0.0113	0.0115	--	0.00989	0.00848	--	0.0106	0.0124	--	0.0085	0.0101	0.022	0.013	0.00768	0.0045	0.00514	0.00323
Barium	mg/L	0.0311	0.0334	0.029	0.0317	0.0339	0.0276	--	0.0285	0.0273	--	0.0292	0.0298	--	0.0286	0.0311	0.035	0.0335	0.0376	0.033	0.0347	0.0345
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00013 J	<6.8e-005	0.000159 J
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.0004 J	0.00267	0.00031 J
Cobalt	mg/L	0.00989 J	0.0106	0.011	0.0117	0.0117	0.00863 J	--	0.00975 J	0.0102	--	0.00924 J	0.00866 J	--	0.0101	0.0131	0.0154	0.0194	0.0249	0.0272	0.0296	0.0324
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.758	0.638	0.701	0.515 U	--	0.393 U	0.374	--	0.334 U	0.64	--	0.803	0.77	0.3 U	0.663 U	0.817	1.05 U	2.01	0.745 U
Lead	mg/L	<0.001	<0.001	<0.001	0.00104 J	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000736	0.000591	0.000497
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	8.04e-005 J	0.00017 J	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.000542 J	0.0006 J
Thallium	mg/L	0.000388 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000101 J	0.000132 J	0.00014 J

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-3																				
		02/17/2016	04/12/2016	06/01/2016	08/15/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/30/2017	02/27/2018	06/04/2018	09/12/2018	11/06/2018	03/27/2019	09/09/2019	04/20/2020	08/17/2020	03/16/2021	08/17/2021	04/05/2022
Appendix III																						
Boron	mg/L	0.0288 J	0.0293 J	0.0279 J	0.0332 J	0.0328 J	0.0262 J	--	0.0298 J	0.0226 J	<0.02	--	0.0296 J	--	0.0268 J	0.0316 J	0.035 J	<0.03	0.0636 J	0.0445 J	0.0518 J	0.0549 J
Calcium	mg/L	106	95.2	86.1	89.7	90.6	94.2	--	90.3	80.7	84	--	98.8	109	110	111	98.5	91.2	78.9	66.6	55.4	69.9
Chloride	mg/L	25.2	24.6	24.5	24.2	24.4	24.6	--	27	26	26	--	27	26	26	24.8	23.8	24.5	24.6	24.4	21.3	20.9
Fluoride	mg/L	0.08 J	0.083 J	0.118 J	0.109 J	0.066 J	--	0.07 J	0.09 J	0.1	0.12	0.09 J	0.1	--	0.1	0.13	0.121	0.112	0.148	0.23	0.184	0.185
pH_Field	pH	6.29	6.33	6.4	6.36	6.38	6.34	6.42	6.35	6.32	6.32	6.39	6.4	6.35	6.34	6.44	6.22	6.4	5.85	6.23	6.13	6.27
Sulfate	mg/L	<0.3	0.49 J	0.544 J	0.332 J	<0.3	<0.3	--	2.1 J	<1.4	<1.4	--	1.4 J	<1.4	<1.4	6.64	6.56	10.5	17.3	7.62	12	15.2
TDS	mg/L	358	393	381	348	379	354	--	368	368	370	--	369	354	354	362	371	371	361	340	297	337
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000906 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00668	0.00827	0.00768	0.00798	0.008	0.00722	--	0.00766	0.00745	--	0.00699	0.00731	--	0.00685	0.00596	0.00806	0.00751	0.00909	0.0112	0.0119	0.01
Barium	mg/L	0.0896	0.0994	0.104	0.102	0.11	0.0942	--	0.105	0.104	--	0.0989	0.0936	--	0.0936	0.0951	0.111	0.109	0.139	0.159	0.15	0.137
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000347 J	0.000324 J	0.000219 J
Cobalt	mg/L	0.00507 J	0.0047 J	0.00372 J	0.0039 J	0.00415 J	0.00383 J	--	0.00396 J	0.00336 J	--	0.00442 J	0.0038 J	--	0.00439 J	0.00463 J	0.00413 J	0.00396 J	<0.002	0.00076	0.000388	0.000826
Combined Radium 226 + 228	pCi/L	1 U	1 U	1.06	0.972	0.802	1.1	--	0.74	0.867	--	0.905	0.954	--	1.27	1.47	1.12	0.899	0.738	0.553 U	1.09	0.532 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000959 J	0.000974 J	0.000744 J
Thallium	mg/L	0.00038 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-5																				
		02/17/2016	04/12/2016	05/31/2016	08/17/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/27/2019	09/11/2019	04/21/2020	08/12/2020	03/16/2021	08/23/2021	04/04/2022
Appendix III																						
Boron	mg/L	0.478	0.467	0.443	0.477	0.489	0.475	--	0.479	0.448	0.407	--	0.489	--	0.508	0.502	0.595	0.72	0.695	0.694	0.628	0.615
Calcium	mg/L	59.8	56.1	56.6	61	61.3	61	--	61.7	66.1	78.9	--	64.8	72.2	78.9	69.1	90.8	93	92.2	99.7	87.6	98.8
Chloride	mg/L	16.4	16.6	16.8	16.4	15.2	15.1	--	17	17	17	--	15	14	13	16.1	11.6	12.3	13	10.9	11.6	9.63
Fluoride	mg/L	0.22 J	0.214 J	0.232 J	0.225 J	0.19 J	--	0.22	0.21	0.21	0.25	0.23	0.24	--	0.22	0.208	0.2	0.224	0.221	0.282	0.322	0.216
pH_Field	pH	6.63	6.59	6.57	6.72	6.69	6.61	6.55	6.65	6.66	6.66	6.73	6.63	6.65	6.65	6.59	6.36	6.5	6.36	6.64	6.5	6.42
Sulfate	mg/L	<0.3	0.483 J	0.518 J	3.63	15.6	28.9	--	25	45	96	--	36	48	93	33.4	149	163	132	167	155	160
TDS	mg/L	238	316	320	325	333	336	--	317	373	432	--	347	370	409	328	455	494	433	510	481	488
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000728 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.353	0.402	0.33	0.369	0.378	0.386	--	0.406	0.353	--	0.425	0.454	--	0.432	0.455	0.406	0.42	0.415	0.473	0.368	0.432
Barium	mg/L	0.397	0.434	0.354	0.397	0.485	0.472	--	0.512	0.48	--	0.269	0.27	--	0.306	0.251	0.323	0.138	0.134	0.143	0.139	0.125
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000285 J	0.000272 J	0.000249 J
Cobalt	mg/L	0.0216	0.0205	0.0196	0.0169	0.0157	0.00858 J	--	0.00755 J	0.0069 J	--	0.00471 J	0.00481 J	--	0.00545	0.00614	0.00767	0.00601	0.00678	0.00857	0.00645	0.0104
Combined Radium 226 + 228	pCi/L	1 U	1.01205 U	2.11	2.28	1.83	1.92	--	3.05	2.24	--	1.01	1.39	--	1.72	1.56	1.46	0.882	2.08	1.71	2.11	1.13
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0883	0.0862	0.085	0.093	0.0928	0.094	--	0.0865	0.0879	--	0.113	0.101	--	0.116	0.0988	0.117	0.13	0.132	0.149	0.116	0.111
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00347 J	0.00297 J	0.00261 J	0.0033 J	0.0041 J	0.00336 J	--	0.0031 J	0.00356 J	--	0.0042 J	0.00293 J	--	0.00318 J	0.00284 J	0.00328 J	0.00255 J	0.00292 J	0.00358	0.0031	0.00354
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	0.000779 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-6																					
		02/17/2016	04/12/2016	05/31/2016	08/17/2016	10/11/2016	01/24/2017	03/14/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/19/2020	03/09/2021	08/24/2021	03/29/2022	
Appendix III																							
Boron	mg/L	2.12	2.06	1.97	2.01	1.91	1.62	--	1.62	1.71	1.7	--	1.56	--	1.6	1.63	1.83	1.77	1.86	1.49	1.36	1.4	
Calcium	mg/L	128	115	118	120	119	110	--	104	98	108	--	121	119	124	148	164	142	162	119	129	134	
Chloride	mg/L	31.8	28.9	28.7	32.2	34.2	38.1	--	41	36	35	--	32	36	30	31.9	27.3	37.4	39.6	47.5	56.6	45.3	
Fluoride	mg/L	0.17 J	0.203 J	0.212 J	0.19 J	0.15 J	--	0.18	0.19	0.18	0.22	0.22	0.23	--	0.22	0.253	0.227	0.218	0.223	0.17	0.161	0.193	
pH_Field	pH	6.46	6.45	6.51	6.54	6.53	6.44	6.4	6.4	6.46	6.47	6.53	6.49	6.48	6.48	6.54	6.55	6.54	6.49	6.43	6.22	5.99	
Sulfate	mg/L	132	130	111	95.8	101	129	--	120	100	95	--	98	100	97	120	140	153	163	187	210	190	
TDS	mg/L	640	610	626	628	636	696	--	687	622	616	--	582	616	576	682	744	742	788	716	792	722	
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000792 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.00141 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000303	0.000279	0.000127 J	
Barium	mg/L	0.0455	0.0455	0.0407	0.0434	0.0514	0.0476	--	0.0543	0.0402	--	0.0463	0.051	--	0.0527	0.0682	0.0789	0.0728	0.0784	0.0664	0.0737	0.0604	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00278	0.000181 J	0.000439
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000347 J	0.000262 J	<0.000203	
Cobalt	mg/L	<0.002	<0.002	0.00389 J	0.00234 J	0.00202 J	<0.002	--	<0.002	<0.002	--	<0.002	0.00237 J	--	0.00258 J	0.00223 J	0.00306 J	0.00228 J	0.00278 J	0.00367	0.00419	0.00223	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.453 U	0.381 U	0.139 U	0.496	--	0.278 U	0.724	--	0.214 U	0.176 U	--	1.39	0.904	1.14	0.679 U	0.96	1.12 U	0.645 U	0.394 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.0591	--	0.0519	0.0403 J	--	0.0201 J	0.0218 J	--	0.0141 J	0.0192 J	0.0267	0.0518	0.0197 J	0.013 J	0.00951 J	0.00733 J	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.0024	0.00211	0.00142	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	
Thallium	mg/L	0.000639 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-7																					
		02/17/2016	04/13/2016	05/31/2016	08/17/2016	10/12/2016	01/25/2017	03/14/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/19/2020	03/09/2021	08/24/2021	03/29/2022	
Appendix III																							
Boron	mg/L	0.503	0.478	0.452	0.492	0.487	0.529	--	0.533	0.501	0.51	--	0.605	--	0.677	0.727	0.764	0.793	0.561	0.397	0.216	0.0852 J	
Calcium	mg/L	158	151	158	152	150	137	--	111	108	113	--	186	209	175	193	188	155	147	160	123	129	
Chloride	mg/L	62.7	57.8	55.6	53.3	51.2	44.8	--	44	45	43	--	49	52	58	71	67	66.2	123	80.7	91.7	94.7	
Fluoride	mg/L	0.07 J	0.081 J	0.103 J	0.078 J	0.041 J	--	0.07 J	0.09 J	0.08 J	0.09 J	0.08 J	0.08 J	--	0.08 J	0.106	0.086 J	0.0951 J	0.103	0.0949 J	0.1	0.104 J	
pH_Field	pH	6.45	6.49	6.43	6.43	6.46	6.43	6.41	6.41	6.46	6.46	6.45	6.36	6.38	6.37	6.39	6.39	6.39	6.14	6.45	6.4	6.62	
Sulfate	mg/L	311	330	324	306	296	243	--	210	210	220	--	390	360	390	430	409	318	296	347	234	187	
TDS	mg/L	892	1010	1100	1070	1040	972	--	740	914	924	--	1060	1020	1050	1100	1100	1010	1050	1090	930	894	
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000839 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	0.000747 J	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00015 J	9.91e-005 J	8.41e-005 J	
Barium	mg/L	0.0772	0.0886	0.0823	0.0789	0.0883	0.067	--	0.0644	0.0582	--	0.0669	0.0672	--	0.0739	0.0796	0.0887	0.0762	0.0816	0.083	0.0782	0.0654	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000351 J	0.000363 J	0.000239 J	
Cobalt	mg/L	<0.002	0.00218 J	0.00328 J	0.00217 J	0.00225 J	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	0.00277 J	0.0024 J	0.0034 J	0.00206 J	0.0046 J	0.00181	0.00333	0.0014	
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.658	0.936	0.668	0.718	--	0.56	0.526	--	0.803	0.577	--	1.51	0.841	0.569 U	0.549 U	1.04	0.545 U	0.865 U	0.575 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000156 J	0.000128 J	0.000161 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	
Thallium	mg/L	0.00042 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-8																				
		02/16/2016	04/13/2016	06/01/2016	08/17/2016	10/12/2016	01/25/2017	03/15/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/19/2020	03/09/2021	08/24/2021	03/29/2022
Appendix III																						
Boron	mg/L	1.54	1.56	1.49	1.57	1.65	1.89	--	1.94	1.72	1.63	--	1.73	--	1.8	1.81	1.82	1.89	1.94	1.57	1.23	1.1
Calcium	mg/L	75.9	74.1	76.4	74.2	75.7	76.1	--	78.6	76.4	74.1	--	58	64.9	68.1	72	91	84.8	98.6	100	86.4	92.8
Chloride	mg/L	67.9	64.1	66.3	56.7	56.1	53.6	--	48	49	52	--	38	37	41	39.7	56.1	69.5	70.5	106	90.8	95.4
Fluoride	mg/L	0.08 J	0.088 J	0.109 J	0.089 J	0.048 J	--	0.08 J	0.1	0.09 J	0.11	0.11	0.11	--	0.11	0.162	0.113	0.114	0.116	0.109	0.141	0.108 J
pH_Field	pH	6.16	6.29	6.33	6.27	6.3	6.27	6.27	6.25	6.25	6.32	6.36	6.3	6.36	6.31	6.32	6.31	6.06	6.06	6.31	6.16	6.21
Sulfate	mg/L	49.4	51.7	51.2	42.9	39.5	31.3	--	30	35	40	--	25	23	30	21.6	37.4	43.3	44.5	71.7	71.4	75.3
TDS	mg/L	656	634	672	624	586	596	--	576	612	640	--	474	496	514	546	602	638	658	746	690	730
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000833 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000248	0.000271	0.000166 J
Barium	mg/L	0.117	0.113	0.105	0.105	0.111	0.0963	--	0.103	0.0935	--	0.0808	0.0789	--	0.0855	0.0911	0.11	0.116	0.119	0.15	0.122	0.104
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000346 J	0.000313 J	0.000273 J
Cobalt	mg/L	0.0129	0.0139	0.0139	0.0138	0.0138	0.0115	--	0.0125	0.0137	--	0.00698 J	0.00478 J	--	0.00651	0.00445 J	0.0108	0.0111	0.00975	0.00707	0.00898	0.00619
Combined Radium 226 + 228	pCi/L	1 U	1.08755 U	0.884	1.06	0.269 U	1.12	--	0.887	0.908	--	0.131 U	0.564	--	0.34 U	0.507	0.898	1.09	0.6 U	1.6	1.67	0.621 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	0.0101 J	0.0143 J	0.0166 J	0.0272 J	--	0.0436 J	0.0401 J	--	0.0309 J	0.0286 J	--	0.0371	0.0537	0.0928	0.0582	0.0511	0.0249	0.0155 J	0.00827 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	8.12e-005 J	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-9																				
		02/16/2016	04/13/2016	06/01/2016	08/17/2016	10/12/2016	01/25/2017	03/15/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/18/2020	03/09/2021	08/24/2021	03/29/2022
Appendix III																						
Boron	mg/L	0.412	0.376	0.338	0.412	0.46	0.586	--	0.661	0.673	0.723	--	0.954	--	1.11	1.14	1.23	1.27	1.24	1.12	1.14	0.72
Calcium	mg/L	33.9	32.5	33.9	50.3	53.3	59.9	--	66.5	69.8	72	--	95.1	122	107	132	116	111	109	82.1	93.1	76.5
Chloride	mg/L	15.6	14.3	12.6	14.4	16.4	20	--	24	25	25	--	25	26	25	25.3	28	24.2	31.4	53.9	90.7	225
Fluoride	mg/L	0.16 J	0.15 J	0.19 J	0.171 J	0.137 J	--	0.15	0.17	0.16	0.19	0.19	0.19	--	0.2	0.223	0.178	0.181	0.177	0.147	0.164	<0.06
pH_Field	pH	6.5	6.32	6.43	6.46	6.53	6.45	6.39	6.39	6.4	6.47	6.54	6.47	6.53	6.49	6.47	6.43	6.25	6.21	6.14	6.08	5.61
Sulfate	mg/L	45.2	43.9	32	31.9	39.6	44	--	32	34	34	--	22	33	76	138	115	133	115	107	139	187
TDS	mg/L	226	202	224	290	315	332	--	361	396	402	--	448	462	506	586	586	578	542	532	624	800
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000847 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00507	0.00556	0.00625	0.00648	0.00772	0.00728	--	0.00818	0.00718	--	0.00946	0.00921	--	0.0098	0.00969	0.0108	0.0102	0.0108	0.0105	0.00695	0.00369
Barium	mg/L	0.0637	0.0552	0.0555	0.0745	0.0897	0.0864	--	0.105	0.0897	--	0.118	0.111	--	0.141	0.175	0.206	0.175	0.165	0.16	0.168	0.133
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000381 J	0.000302 J	0.000227 J
Cobalt	mg/L	0.00869 J	0.00936 J	0.00976 J	0.012	0.0127	0.0109	--	0.0129	0.0125	--	0.013	0.0113	--	0.0145	0.0167	0.0177	0.0166	0.0164	0.0247	0.0323	0.0274
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.532	1.07	1.07	1.46	--	1.21	0.821	--	0.232 U	0.722	--	0.82	1.49	1.75	1.31	1.59	1.16 U	1.43	1.25
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	7.84e-005 J	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0359 J	0.0276 J	0.0296 J	0.0398 J	0.0433 J	0.0366 J	--	0.039 J	0.0345 J	--	0.0349 J	0.0338 J	--	0.0616	0.0931	0.128	0.0693	0.0591	0.0417	0.0383	0.013 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-10																				
		02/16/2016	04/13/2016	05/31/2016	08/16/2016	10/12/2016	01/25/2017	03/15/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/27/2019	09/10/2019	04/22/2020	08/18/2020	03/15/2021	08/24/2021	04/04/2022
Appendix III																						
Boron	mg/L	1.44	0.373	1.26	1.34	1.34	1.38	--	1.23	1.05	1.17	--	1.31	--	1.26	1.11	1.27	1.23	1.37	1.79	1.93	1.91
Calcium	mg/L	76.3	30.5	65.9	65.6	63.4	64.2	--	62.6	60.8	61.4	--	65.5	66.1	68.5	71.8	69.3	62.9	74.4	73.8	83.4	93.7
Chloride	mg/L	18.4	19	19.2	17.7	16.8	18.6	--	22	20	20	--	18	19	19	17.1	16.5	17.6	21.3	23.2	22.4	16.8
Fluoride	mg/L	0.23 J	0.236 J	0.255 J	0.238 J	0.198 J	--	0.22	0.25	0.09 J	0.26	0.26	0.24	--	0.25	0.206	0.226	0.224	0.203	0.324	0.277	0.281
pH_Field	pH	6.29	6.21	6.45	6.58	6.6	6.47	6.54	6.53	6.49	6.49	6.59	6.52	6.53	6.51	6.53	6.33	6.44	6.33	6.29	6.04	6.21
Sulfate	mg/L	9.03	10.7	10.2	9.1	7.24	9.71	--	11	10	14	--	39	29	45	66.2	50.5	63.2	58.6	68.5	71.6	111
TDS	mg/L	312	324	333	327	312	286	--	326	304	348	--	346	335	342	347	351	338	376	406	423	452
Appendix IV																						
Antimony	mg/L	0.000786 J	<0.0006	<0.0006	<0.0006	<0.0006	0.00128 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0123	0.0143	0.0125	0.0128	0.0145	0.0122	--	0.0135	0.0131	--	0.0146	0.0233	--	0.0152	0.014	0.0132	0.0121	0.0121	0.0125	0.0129	0.0117
Barium	mg/L	0.179	0.185	0.158	0.16	0.17	0.156	--	0.169	0.144	--	0.172	0.173	--	0.171	0.167	0.199	0.186	0.223	0.261	0.287	0.244
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000357 J	0.000356 J	<0.000203
Cobalt	mg/L	0.0135	0.0155	0.0146	0.016	0.0154	0.0139	--	0.0144	0.0134	--	0.0148	0.0139	--	0.015	0.014	0.0191	0.0233	0.0287	0.0475	0.0514	0.0215
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.899	0.82	0.92	1.2	--	0.665	0.29 U	--	0.558	0.698	--	0.568	0.988	1.1	1.11	1.08	1.12 U	1.45	2.08
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.115	0.135	0.127	0.124	0.101	0.109	--	0.101	0.0954	--	0.111	0.104	--	0.11	0.115	0.112	0.123	0.124	0.155	0.198	0.345
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0101	0.0127	0.0106	0.00991 J	0.00919 J	0.0101	--	0.00984 J	0.0102	--	0.011	0.00752 J	--	0.00748 J	0.00778 J	0.00757 J	0.00747 J	0.00808 J	0.0103	0.0132	0.0117
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-11																				
		02/17/2016	04/13/2016	05/31/2016	08/16/2016	10/12/2016	01/25/2017	03/14/2017	05/09/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/10/2018	11/05/2018	03/27/2019	09/10/2019	04/22/2020	08/18/2020	03/10/2021	08/25/2021	03/30/2022
Appendix III																						
Boron	mg/L	0.581	0.61	0.615	0.554	0.537	0.562	--	0.528	0.313	0.241	--	0.311	--	0.262	0.298	0.141	0.447	0.358	0.502	0.601	0.472
Calcium	mg/L	18.6	17.8	17.7	18.4	17.3	16.6	--	18	22.6	23.9	--	25.7	27.2	24.1	31	27.7	36.7	37.6	39.9	57.6	43.4
Chloride	mg/L	16.6	17	19	17	16.2	18	--	23	24	15	--	16	13	13	14.2	8.88	20.5	16.2	17.1	14.4	12.7
Fluoride	mg/L	0.11 J	0.119 J	0.134 J	0.116 J	0.076 J	--	0.09 J	0.11	0.17	0.14	0.14	0.16	--	0.15	0.104	0.191	0.167	0.165	0.0749 J	0.135	0.0814 J
pH_Field	pH	6.04	6.07	6.03	6.09	6.06	5.94	6.08	6.07	6.02	6.19	6.21	6.27	6.33	6.26	6.37	5.91	6.26	6	5.97	6.38	6.02
Sulfate	mg/L	40.2	33.1	28.1	38.5	38.3	32	--	44	88	110	--	79	80	81	83.2	87.2	58.7	81.1	73.2	126	125
TDS	mg/L	158	161	173	173	173	161	--	195	227	229	--	200	183	193	211	201	249	260	274	358	280
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000896 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00437 J	0.00695	0.0063	0.0068	0.00709	0.00718	--	0.00819	0.00664	--	0.00733	0.00637	--	0.00195 J	0.00573	0.00378 J	0.00616	0.00457 J	0.00317	0.00518	0.00108
Barium	mg/L	0.105	0.106	0.0907	0.0989	0.113	0.103	--	0.125	0.103	--	0.0718	0.0643	--	0.0588	0.0678	0.0651	0.0967	0.0866	0.0637	0.104	0.0483
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.000347	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000267 J	0.000226 J
Cobalt	mg/L	0.0504	0.0448	0.0405	0.0464	0.0489	0.0417	--	0.0471	0.0664	--	0.0438	0.036	--	0.0171	0.0292	0.02	0.0319	0.0298	0.0197	0.0507	0.0155
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.145 U	0.521 U	0.669 U	0.789	--	0.647	0.415	--	0.864	0.244 U	--	0.682	0.564	0.57	0.502 U	0.457 U	0.666 U	0.729 U	0.597 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0777	0.073	0.0721	0.075	0.0703	0.0683	--	0.0646	0.109	--	0.11	0.102	--	0.0641	0.119	0.124	0.126	0.109	0.0826	0.132	0.0641
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00651 J	0.00646 J	0.00546 J	0.00582 J	0.00589 J	0.00556 J	--	0.0058 J	0.00616 J	--	0.00962 J	0.00984 J	--	0.00944 J	0.0151	0.0205	0.0147	0.0146	0.00701	0.0106	0.00403
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	0.000869 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8.7e-005 J	9.4e-005 J	7.45e-005 J

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-12																				
		02/16/2016	04/13/2016	05/31/2016	08/16/2016	10/12/2016	01/25/2017	03/15/2017	05/09/2017	06/28/2017	08/29/2017	02/28/2018	06/06/2018	09/11/2018	11/05/2018	03/26/2019	09/10/2019	04/21/2020	08/18/2020	03/10/2021	08/25/2021	03/29/2022
Appendix III																						
Boron	mg/L	0.273	0.276	0.291	0.268	0.252	0.167	--	0.32	0.231	0.191	--	0.26	--	0.127	0.111	0.153	0.872	0.748	0.389	0.393	0.416
Calcium	mg/L	34.6	32.2	28.8	24	27.8	33.7	--	35.5	28	26.4	--	30.1	27.4	28.8	33.7	30.5	51	42.9	55.1	45.2	53.7
Chloride	mg/L	10.8	8.2	7.74	12.5	15.7	24.4	--	15	12	10	--	11	12	17	14.5	10.9	9.49	6.46	9.3	7.43	11.8
Fluoride	mg/L	0.16 J	0.163 J	0.19 J	0.219 J	0.163 J	--	0.13	0.15	0.17	0.22	0.19	0.19	--	0.2	0.196	0.26	0.198	0.223	0.161	0.188	0.107 J
pH_Field	pH	6.84	7.03	6.94	6.84	6.75	6.87	6.9	6.85	6.85	6.86	6.94	6.99	6.87	6.81	6.95	6.69	6.96	6.98	6.89	7.04	6.44
Sulfate	mg/L	119	122	94.3	67.1	94.1	101	--	91	71	80	--	62	63	74	92.3	89.3	121	89	155	118	108
TDS	mg/L	264	238	206	180	223	271	--	236	198	187	--	199	184	210	230	218	291	250	331	263	290
Appendix IV																						
Antimony	mg/L	0.000933 J	<0.0006	0.000834 J	0.00118 J	0.000899 J	0.00136 J	--	<0.0006	0.000683 J	--	0.000656 J	<0.0006	--	<0.0008	0.00121 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000251	0.000234	0.000264
Barium	mg/L	0.0231	0.02	0.0175	0.0182	0.0221	0.0187	--	0.0232	0.0178	--	0.0197	0.0204	--	0.0255	0.0218	0.0233	0.0325	0.021	0.0373	0.0323	0.0365
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000224 J	0.000346 J	<0.000203
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00118	0.000938	0.000876
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.21 U	0.697	0.421 U	0.265 U	--	-0.132 U	0.493	--	1.89	0.114 U	--	0.048 U	0.381	0.434 U	-0.0655 U	0.135 U	0.481 U	0.113 U	1.37
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.502	0.544	0.47	0.282	0.217	0.108	--	0.132	0.126	--	0.0786	0.067	--	0.0912	0.0532	0.0598	0.166	0.0892	0.125	0.117	0.133
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.107	0.101	0.0915	0.127	0.11	0.0741	--	0.0883	0.109	--	0.0903	0.0757	--	0.0906	0.11	0.134	0.0947	0.0938	0.0611	0.0547	0.0514
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.00281	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-13																							
		02/16/2016	04/12/2016	05/31/2016	08/16/2016	10/12/2016	11/01/2016	01/25/2017	03/15/2017	05/09/2017	06/28/2017	08/29/2017	02/27/2018	02/28/2018	06/06/2018	09/11/2018	11/05/2018	03/26/2019	09/11/2019	04/20/2020	08/18/2020	03/15/2021	08/25/2021	04/06/2022	05/17/2022
Appendix III																									
Boron	mg/L	0.26	0.26	0.318	0.322	0.244	--	0.188	--	0.281	0.153	0.112	--	--	0.244	--	0.104	0.213	0.535	0.642	0.501	0.523	0.438	0.26	--
Calcium	mg/L	29.8	23.3	25.9	25.5	29.5	--	33.6	--	30.4	26	22.3	--	--	23.7	26.8	29.4	34.1	53.9	40.3	95.3	68.9	74.2	55.3	--
Chloride	mg/L	6.52	4.47	10.8	16.6	18.5	--	22	--	10	9.4	9.3	--	--	6.1	14	18	4.7	12.3	4.7	8.24	7.68	6.37	3.71	--
Fluoride	mg/L	0.14 J	0.119 J	0.132 J	0.177 J	0.149 J	--	--	0.16	0.18	0.18	0.19	--	0.14	0.13	--	0.15	0.0775 J	0.118	0.0844 J	0.108	0.0737 J	0.111	<0.06	--
pH_Field	pH	6.4	6.41	6.22	6.41	6.42	--	6.76	6.82	6.7	6.58	6.4	--	6.72	6.57	6.64	6.69	6.54	6.22	6.68	6.76	6	6.66	6.24	6.2
Sulfate	mg/L	113	86.7	83.1	59.3	99.3	--	113	--	74	71	72	--	--	48	62	81	92.4	128	76.5	203	204	181	157	--
TDS	mg/L	242	176	189	192	--	244	274	--	191	176	163	--	--	138	185	208	198	316	201	444	374	359	298	--
Appendix IV																									
Antimony	mg/L	0.000972 J	<0.0006	0.000869 J	0.00128 J	0.00114 J	--	0.00384	--	0.00323	0.00406	--	--	0.00199 J	0.00261 J	--	0.00275 J	0.00219 J	0.00261 J	0.00338	0.00388	0.0016	0.00263	0.002	--
Arsenic	mg/L	0.0141	0.0144	0.00984	0.0126	0.0117	--	0.00316 J	--	0.00393 J	0.00406 J	--	--	0.00278 J	0.00352 J	--	0.00497 J	0.00251 J	0.00664	0.00181 J	0.00176 J	0.00207	0.00302	0.00269	--
Barium	mg/L	0.113	0.0912	0.0963	0.0878	0.112	--	0.114	--	0.1	0.0874	--	--	0.0984	0.0951	--	0.113	0.109	0.275	0.104	0.199	0.0699	0.114	0.0701	--
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	--
Chromium	mg/L	<0.002	<0.002	<0.002	0.00381 J	<0.002	--	<0.002	--	<0.002	0.00219 J	--	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000311 J	0.000261 J	<0.000203	--
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000312	6.87e-005 J	0.00126	--
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.313 U	0.435 U	-0.0137 U	--	0.309 U	--	0.42	0.373	--	1.25	--	0.258 U	--	0.441 U	0.471	0.557 U	0.256 U	0.568 U	0.537 U	0.3 U	0.338 U	--
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	--
Lithium	mg/L	0.51	0.508	0.454	0.371	0.282	--	0.0904	--	0.144	0.146	--	--	0.0738	0.148	--	0.0914	0.123	0.246	0.201	0.42	0.308	0.5	0.612	--
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--
Molybdenum	mg/L	0.0769	0.0442	0.0481	0.0956	0.114	--	0.078	--	0.0484	0.0598	--	--	0.0346	0.0253	--	0.044	0.0262	0.0226	0.0924	0.145	0.0146	0.0319	0.0201	--
Selenium	mg/L	0.0227	0.0701	0.0129	0.0208	0.00431 J	--	0.00779 J	--	0.00905 J	0.0072 J	--	--	0.00826 J	0.00496 J	--	<0.002	0.0239	<0.002	0.0125	0.00416 J	0.0175	0.00826	0.111	0.0452
Thallium	mg/L	<0.0002	<0.0002	0.000212 J	0.000449 J	0.000532 J	--	0.000309 J	--	0.00021 J	0.000244 J	--	--	<0.0002	0.000239 J	--	0.000623 J	0.000215 J	0.00214	0.000433 J	0.00114	0.000506	0.00124	0.00164	--

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-14																					
		02/16/2016	04/12/2016	05/31/2016	08/17/2016	10/12/2016	11/01/2016	01/25/2017	03/14/2017	05/09/2017	06/28/2017	08/29/2017	02/27/2018	06/06/2018	09/12/2018	11/07/2018	03/27/2019	09/10/2019	04/21/2020	08/11/2020	03/09/2021	08/25/2021	04/04/2022
Appendix III																							
Boron	mg/L	0.739	0.733	0.603	0.509	0.569	--	0.671	--	0.622	0.695	1	--	1.01	--	0.908	1.33	1.49	1.55	1.44	1.81	1.33	1.88
Calcium	mg/L	44.4	43.2	43	35.9	31.1	--	42.7	--	48.1	55	83.6	--	167	109	105	162	125	113	118	115	134	117
Chloride	mg/L	16.4	15.9	13.6	12.8	16.3	--	16.4	--	19	17	17	--	14	14	15	14.9	13.5	14.8	12.7	10.4	11.5	10
Fluoride	mg/L	0.13 J	0.137 J	0.149 J	0.147 J	0.115 J	--	--	0.11	0.14	0.13	0.14	0.13	0.15	--	0.19	0.248	0.209	0.254	0.278	0.263	0.239	0.245
pH_Field	pH	6.21	6.37	6.42	6.42	6.38	--	6.37	6.3	6.43	6.4	6.32	6.28	6.25	6.42	6.42	6.41	6.11	6.31	6.02	6.48	6.21	6.39
Sulfate	mg/L	108	114	114	85.4	53.5	--	75.4	--	84	120	180	--	450	200	180	335	193	168	242	165	346	192
TDS	mg/L	340	298	309	269	--	252	259	--	285	348	528	--	932	180	528	834	658	628	688	618	774	630
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	0.00062 J	<0.0006	<0.0006	--	0.00106 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0202	0.0214	0.0156	0.0153	0.0254	--	0.0194	--	0.0361	0.022	--	0.0265	0.0372	--	0.0289	0.0264	0.0263	0.0178	0.0207	0.0292	0.0224	0.0241
Barium	mg/L	0.0447	0.043	0.0383	0.0332	0.0454	--	0.0567	--	0.069	0.0764	--	0.0908	0.064	--	0.0575	0.0768	0.0685	0.102	0.0806	0.125	0.11	0.103
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000357 J	0.000234 J	0.000248 J
Cobalt	mg/L	0.00732 J	0.00785 J	0.00712 J	0.00545 J	0.00497 J	--	0.00454 J	--	0.00488 J	0.00805 J	--	0.016	0.024	--	0.0124	0.0303	0.0278	0.0339	0.0373	0.0302	0.0436	0.0406
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.624	0.49 U	-0.0237 U	--	0.455 U	--	0.451	0.63	--	1.59	0.943	--	0.888	1.1	0.852	0.653	1.64	1.28 U	1.01	1.03
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.632	0.615	0.613	0.444	0.387	--	0.516	--	0.526	0.626	--	0.562	1.06	--	0.604	1.11	0.765	0.672	0.712	0.791	0.985	0.636
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00839 J	0.00918 J	0.00877 J	0.0236	0.0289	--	0.00501 J	--	0.0108	0.00752 J	--	0.0121	0.0101	--	0.0155	0.0167	0.0125	0.0141	0.0117	0.0205	0.0127	0.0166
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-15																					
		02/17/2016	04/12/2016	05/31/2016	08/16/2016	10/11/2016	11/01/2016	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/10/2019	04/20/2020	08/12/2020	03/10/2021	08/25/2021	03/29/2022
Appendix III																							
Boron	mg/L	0.454	0.444	0.424	0.438	0.456	--	0.458	--	0.486	0.454	0.441	--	0.543	--	0.614	0.699	0.73	0.791	0.813	0.825	0.83	0.848
Calcium	mg/L	47.7	44.4	45.3	49.4	52.7	--	49.4	--	47.4	44.9	44.4	--	45.1	48.5	49.2	53.9	57.2	61	72.2	67.4	74.8	75.6
Chloride	mg/L	11.8	12.6	12.9	10.2	10.2	--	11.2	--	14	14	14	--	13	14	14	12.8	12.8	12	11.4	11.9	10.2	10.3
Fluoride	mg/L	0.09 J	0.107 J	0.145 J	0.135 J	0.096 J	--	--	0.09 J	0.11	0.1	0.13	0.09 J	0.13	--	0.12	0.119	0.122	0.14	0.147	0.115	0.167	0.117 J
pH_Field	pH	6.02	6.17	6.15	6.21	6.14	--	6.11	6.09	6.11	6.09	6.1	6.11	6.05	6.18	6.09	6.1	5.82	6.16	6.1	6.08	6.12	5.81
Sulfate	mg/L	187	188	183	196	216	--	183	--	160	150	160	--	160	140	160	158	150	142	160	136	152	165
TDS	mg/L	408	334	351	367	--	372	354	--	332	331	317	--	318	321	331	342	358	369	401	397	407	406
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.00111 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000349	0.000464	0.000404
Barium	mg/L	0.022	0.0242	0.0224	0.0243	0.0291	--	0.0223	--	0.0281	0.0223	--	0.0271	0.0269	--	0.0271	0.0285	0.0348	0.0338	0.0352	0.0365	0.0402	0.0387
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00012 J	0.000142 J	0.000479
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000301 J	0.00027 J	<0.000203
Cobalt	mg/L	0.0169	0.0158	0.014	0.0153	0.0162	--	0.0132	--	0.014	0.0163	--	0.0157	0.0148	--	0.0158	0.018	0.0201	0.0189	0.0184	0.0189	0.0181	0.0178
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.41 U	0.399 U	0.00389 U	--	0.35 U	--	0.0662 U	0.793	--	3.99	-0.365 U	--	0.391 U	0.535	0.3 U	0.693	0.983	0.335 U	0.314 U	0.273 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.806	0.719	0.735	0.699	0.727	--	0.689	--	0.603	0.558	--	0.571	0.492	--	0.547	0.575	0.6	0.604	0.594	0.63	0.622	0.618
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	0.000697 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8.78e-005 J	<6.8e-005	0.000108 J

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-16																					
		02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/12/2016	11/02/2016	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/12/2018	11/06/2018	03/26/2019	09/10/2019	04/20/2020	08/11/2020	03/09/2021	08/17/2021	04/06/2022
Appendix III																							
Boron	mg/L	1.47	1.48	1.22	1.31	1.37	--	1.38	--	1.41	1.43	1.36	--	1.36	--	1.47	1.38	1.69	1.83	1.93	1.94	1.98	2.11
Calcium	mg/L	57	62.5	54.4	56.2	56.6	--	59.1	--	62.5	63.6	65.7	--	66.8	76.3	77.4	90	86.3	90.8	101	101	103	104
Chloride	mg/L	12.5	13.6	14.2	13.6	13.8	--	14.2	--	18	17	16	--	15	17	15	9.27	12.7	12.1	12.1	12	10.4	11.6
Fluoride	mg/L	0.2 J	0.173 J	0.253 J	0.224 J	0.187 J	--	--	0.23	0.23	0.22	0.28	0.23	0.28	--	0.24	0.316	0.267	0.245	0.294	0.286	0.286	0.213
pH_Field	pH	6.18	6.28	6.36	6.37	6.32	--	6.29	6.27	6.3	6.28	6.34	6.33	6.29	6.36	6.37	6.34	6.35	6.43	6.7	6.29	6.33	6.42
Sulfate	mg/L	87.4	92.7	111	98.3	99.3	--	85.4	--	74	75	87	--	87	63	97	123	68	49.6	55	43.9	46.6	45.3
TDS	mg/L	310	372	360	366	--	374	380	--	381	404	420	--	408	415	447	481	453	461	482	524	490	456
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000935 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0788	0.0759	0.292	0.105	0.0831	--	0.0472	--	0.0814	0.0693	--	0.0852	0.0648	--	0.0701	0.0952	0.0786	0.105	0.0698	0.113	0.0765	0.078
Barium	mg/L	0.0368	0.044	0.0357	0.0377	0.0431	--	0.0418	--	0.0449	0.042	--	0.0595	0.0471	--	0.0574	0.0626	0.0754	0.0921	0.0948	0.102	0.101	0.103
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000444 J	0.000404 J	<0.000203
Cobalt	mg/L	0.016	0.0139	0.0117	0.0133	0.0147	--	0.0122	--	0.0133	0.0141	--	0.014	0.0114	--	0.0141	0.0177	0.0162	0.0146	0.0148	0.0162	0.0155	0.0147
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.515	0.843	0.397 U	--	0.269 U	--	0.454	1.25	--	1.17	0.337 U	--	0.661	1.18	0.516 U	0.493 U	1.48	1.2 U	0.49 U	1 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000109 J	0.000108 J	<6.8e-005
Lithium	mg/L	0.626	0.594	0.556	0.557	0.589	--	0.522	--	0.552	0.523	--	0.544	0.49	--	0.54	0.558	0.581	0.62	0.599	0.692	0.647	0.67
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000113 J	0.000145 J	0.000149 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	0.000687 J	<0.0002	0.000272 J	0.000278 J	0.000322 J	--	0.000265 J	--	0.000327 J	0.000301 J	--	0.000321 J	0.000288 J	--	0.000354 J	0.00041 J	0.000396 J	0.00032 J	0.000329 J	0.000369	0.000356	0.00034

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-17																					
		02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/12/2016	11/02/2016	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/12/2018	11/06/2018	03/26/2019	09/09/2019	04/21/2020	08/11/2020	03/09/2021	08/17/2021	04/04/2022
Appendix III																							
Boron	mg/L	1.66	1.64	1.66	1.83	2.12	--	1.94	--	1.99	2.18	1.71	--	1.76	--	1.74	1.74	2.33	1.97	2.03	2.45	2.18	2.25
Calcium	mg/L	30.7	39.5	47.7	45.6	57.6	--	69.4	--	66.2	63.8	75.1	--	77.4	58.9	81.6	84.7	66.4	74.4	73	118	78.3	108
Chloride	mg/L	14.6	14.9	15.9	19.5	18.5	--	19	--	24	24	18	--	15	23	11	9.52	15.4	11.1	15.4	14.3	14.3	8.06
Fluoride	mg/L	0.53	0.437	0.376	0.362	0.377	--	--	0.41	0.36	0.38	0.38	0.58	0.41	--	0.45	0.573	0.477	0.565	0.515	0.628	0.494	0.607
pH_Field	pH	6.32	6.44	6.24	6.34	6.42	--	6.53	--	6.33	6.38	6.31	6.57	6.21	6.43	6.47	6.52	5.84	6.61	6.71	6.52	6.57	6.71
Sulfate	mg/L	72.3	123	144	50.1	72.6	--	63.4	--	82	44	230	--	230	33	220	161	57.3	78	46.7	95.8	32.8	65.5
TDS	mg/L	328	373	442	392	--	469	464	--	492	516	646	--	644	476	634	516	500	490	522	684	506	550
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000997 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.000897 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.177	0.271	0.251	0.253	0.243	--	0.363	--	0.499	0.489	--	0.532	0.382	--	0.299	0.32	0.356	0.689	0.581	0.86	0.937	0.861
Barium	mg/L	0.0402	0.0637	0.0786	0.0634	0.0995	--	0.117	--	0.158	0.139	--	0.199	0.149	--	0.202	0.242	0.319	0.306	0.29	0.352	0.254	0.252
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000216 J	0.000216 J	0.000224 J
Cobalt	mg/L	0.0101	0.0109	0.0134	0.0134	0.0204	--	0.0157	--	0.0179	0.0166	--	0.0251	0.0456	--	0.0321	0.0192	0.0121	0.0158	0.0122	0.0151	0.0109	0.0115
Combined Radium 226 + 228	pCi/L	1 U	1.4698 U	0.972	1.43	0.246 U	--	0.918	--	1.27	1.51	--	1.05	1.07	--	1.05	1.57	1.29	0.859	2.14	2.27	1.97	2.17
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.612	0.694	0.675	0.571	0.622	--	0.752	--	0.622	0.597	--	0.73	0.531	--	0.583	0.595	0.571	0.629	0.552	0.864	0.585	0.71
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.066	0.0835	0.0835	0.0838	0.111	--	0.111	--	0.0566	0.0702	--	0.0957	0.0363	--	0.0418	0.062	0.0681	0.0694	0.0506	0.067	0.0468	0.054
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	0.00067 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-18																					
		02/17/2016	04/12/2016	06/01/2016	08/15/2016	10/12/2016	11/02/2016	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/12/2018	11/06/2018	03/26/2019	09/09/2019	04/21/2020	08/12/2020	03/09/2021	08/17/2021	04/06/2022
Appendix III																							
Boron	mg/L	1.94	2.03	1.74	1.66	1.77	--	1.49	--	1.65	1.66	1.53	--	1.36	--	1.48	1.63	1.73	1.51	1.53	1.52	1.45	1.55
Calcium	mg/L	89.6	96.2	90.2	84.4	82.9	--	76.4	--	77.4	75.4	78	--	66.3	67.8	72.7	91.5	83.2	81.8	85.9	82	77.4	96.1
Chloride	mg/L	22.3	22.1	22	22.4	22.1	--	23.2	--	26	25	25	--	25	23	26	25.4	25.6	26.3	24.5	25.2	25.1	24
Fluoride	mg/L	0.15 J	0.168 J	0.178 J	0.149 J	0.12 J	--	--	0.17	0.17	0.18	0.21	0.17	0.17	--	0.17	0.192	0.157	0.171	0.198	0.205	0.212	0.162
pH_Field	pH	6.23	6.3	6.24	6.25	6.26	--	6.3	--	6.34	6.32	6.38	6.31	6.16	6.29	6.31	6.3	6.28	6.31	6.62	6.39	6.38	6.29
Sulfate	mg/L	60.2	68.2	61.4	56	36.6	--	12.3	--	10	9.7	7.8	--	13	28	11	21.3	17.8	19.2	13.8	11.6	12.2	16.3
TDS	mg/L	464	491	468	454	--	422	408	--	358	382	392	--	352	339	368	406	406	429	390	412	397	413
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000984 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.133	0.134	0.11	0.116	0.109	--	0.0825	--	0.0776	0.0672	--	0.063	0.0661	--	0.0509	0.0477	0.0498	0.0478	0.0485	0.0505	0.0509	0.049
Barium	mg/L	0.12	0.131	0.114	0.113	0.126	--	0.126	--	0.138	0.12	--	0.143	0.128	--	0.109	0.117	0.101	0.0926	0.0815	0.0849	0.0763	0.0769
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000346 J	0.00023 J	0.000224 J
Cobalt	mg/L	0.0227	0.0209	0.02	0.0225	0.0206	--	0.015	--	0.0141	0.0144	--	0.0136	0.0138	--	0.0158	0.0161	0.0174	0.0173	0.0152	0.017	0.0175	0.0187
Combined Radium 226 + 228	pCi/L	1 U	1 U	1.55	1.85	0.481	--	0.889	--	1.01	1.17	--	0.702	0.999	--	0.913	1.35	1.08	0.888	1.17	1.11 U	2.04	1.18 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.67	0.655	0.666	0.558	0.56	--	0.374	--	0.443	0.451	--	0.343	0.353	--	0.369	0.378	0.408	0.386	0.326	0.364	0.335	0.327
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000362	0.000397	0.000321
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	0.000404 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-21																				
		02/16/2016	04/13/2016	06/01/2016	08/16/2016	10/12/2016	01/25/2017	03/15/2017	05/09/2017	06/28/2017	08/29/2017	02/28/2018	06/06/2018	09/10/2018	11/05/2018	03/26/2019	09/10/2019	04/21/2020	08/18/2020	03/10/2021	08/25/2021	03/30/2022
Appendix III																						
Boron	mg/L	0.286	0.26	0.283	0.292	0.254	0.133	--	0.304	0.243	0.249	--	0.245	--	0.151	0.0834 J	0.16	0.586	0.211	0.528	0.288	0.696
Calcium	mg/L	40.4	32.2	29.3	25.4	30.7	36.8	--	36.1	26.9	29.4	--	30.2	28.8	29.7	32.4	28.4	43.1	25.5	44.9	31	58.8
Chloride	mg/L	9.95	7.33	6.97	12	15.4	24.7	--	17	11	12	--	9.7	12	16	17.2	11	10.1	5.54	20.4	10.4	12.1
Fluoride	mg/L	0.18 J	0.191 J	0.201 J	0.218 J	0.171 J	--	0.16	0.17	0.18	0.23	0.2	0.19	--	0.22	0.219	0.194	0.173	0.18	0.113	0.117	<0.06
pH_Field	pH	7.15	7.1	6.76	6.99	6.89	6.84	--	6.83	6.98	6.8	6.87	6.94	6.74	6.66	6.84	6.58	6.81	6.31	6.26	6.51	6.09
Sulfate	mg/L	125	119	99.2	71.9	93.9	103	--	100	69	77	--	81	64	68	92	63.1	99	63.4	51.7	76.1	115
TDS	mg/L	264	226	231	181	225	277	--	255	175	218	--	207	197	200	218	198	265	179	296	207	320
Appendix IV																						
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00107 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.000964 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000216	0.000143 J	0.000128 J
Barium	mg/L	0.0379	0.0291	0.0254	0.0385	0.0486	0.0371	--	0.0454	0.0352	--	0.0376	0.0355	--	0.0509	0.047	0.0568	0.0763	0.0517	0.111	0.0865	0.112
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	7.02e-005 J	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000333 J	0.000274 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00204	0.00147
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.126 U	0.477	0.137 U	0.55	--	0.182 U	0.228 U	--	0.293 U	-0.056 U	--	0.637	0.405	0.0889 U	0.271 U	-0.0105 U	0.418 U	0.305 U	1.04
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.513	0.532	0.513	0.301	0.22	0.107	--	0.113	0.0962	--	0.0594	0.0469 J	--	0.0902	0.0531	0.0862	0.0782	0.0718	0.146	0.0872	0.0798
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0433	0.0567	0.0565	0.0791	0.0767	0.0398	--	0.0467	0.0833	--	0.0643	0.0579	--	0.0548	0.071	0.0609	0.0562	0.0505	0.0123	0.00789	0.00682
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000106 J	<6.8e-005	0.000107 J

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-25																					
		02/17/2016	04/12/2016	06/01/2016	08/17/2016	10/11/2016	11/02/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/29/2017	02/28/2018	06/06/2018	09/12/2018	11/06/2018	03/27/2019	09/10/2019	04/22/2020	08/11/2020	03/10/2021	08/24/2021	03/29/2022
Appendix III																							
Boron	mg/L	0.0922 J	0.0935 J	0.0826 J	0.092 J	0.0976 J	--	0.0877 J	--	0.0953 J	0.0835 J	0.0914 J	--	0.102	--	0.0995 J	0.113	0.105	0.104	0.11	0.146	0.115	0.122
Calcium	mg/L	10.2	10	9.87	8.88	9.22	--	8.72	--	8.56	7.16	8.32	--	9.05	8.98	9.21	9.77	9.28	11.3	10.7	29.3	25.9	33.4
Chloride	mg/L	22.9	22.2	22.3	22.1	21.8	--	21.8	--	23	22	22	--	20	20	21	18.4	17.7	17.1	16.7	25.3	25.3	29.6
Fluoride	mg/L	0.02 J	0.021 J	0.051 J	0.037 J	<0.01	--	--	<0.032	<0.032	0.04 J	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	0.104	0.0914 J	0.0724 J
pH_Field	pH	5.36	5.31	5.35	5.38	5.31	--	5.29	--	5.29	5.27	5.27	5.28	5.21	5.23	5.28	5.27	5.15	5.26	4.81	5.71	5.25	5.26
Sulfate	mg/L	28.7	32.5	31.9	30.5	32.3	--	33.5	--	33	35	37	--	47	41	48	62.4	66	76.1	79.5	70.3	66.6	68.6
TDS	mg/L	144	140	139	142	--	128	124	--	136	145	139	--	153	156	153	178	182	195	193	246	224	247
Appendix IV																							
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.00111 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00033	0.000279	0.000236
Barium	mg/L	0.0895	0.0966	0.0872	0.0875	0.1	--	0.0856	--	0.093	0.0829	--	0.0958	0.0892	--	0.0807	0.0901	0.101	0.11	0.111	0.0797	0.0988	0.0717
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.000715 J	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	9.04e-005 J	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.0003 J	0.000284 J	<0.000203
Cobalt	mg/L	0.00683 J	0.00656 J	0.00637 J	0.00659 J	0.00687 J	--	0.00522 J	--	0.00646 J	0.00721 J	--	0.00771 J	0.00712 J	--	0.00791	0.0114	0.0127	0.0133	0.0126	0.0115	0.0117	0.0101
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.1 U	0.372 U	0.277 U	--	0.585	--	0.489	0.333	--	1.08	0.016 U	--	0.0751 U	0.309 U	0.578	0.218 U	0.511 U	1.03 U	0.693 U	0.37 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	8.84e-005 J	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	8.43e-005 J	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	0.000232 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-31																						
		08/16/2016	09/19/2016	10/11/2016	11/01/2016	11/14/2016	11/28/2016	01/03/2017	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/27/2019	09/11/2019	04/22/2020	08/11/2020	03/15/2021	08/23/2021	03/28/2022
Appendix III																								
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	0.0282 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	39.5	34.5	32.4	--	26.5	--	22.6	19.5	--	15.7	13.8	11.1	--	9.12	7.5	7.39	7.65	6.96	5.92	7.46	5.9	7.11	5.95
Chloride	mg/L	5.32	5.29	5.26	--	5.28	--	5.18	5.41	--	5.8	5.4	6	--	5.2	5.5	5.1	5.26	5.31	5.37	5.45	5.47	6.37	6
Fluoride	mg/L	0.087 J	0.045 J	0.034 J	--	<0.01	--	<0.01	--	<0.032	0.05 J	0.05 J	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	7.13	6.94	6.82	--	6.57	--	6.56	6.41	--	6.41	6.14	6.08	5.99	5.93	5.86	5.89	5.95	5.85	5.75	5.63	5.61	5.67	5.05
Sulfate	mg/L	1.78	2.06	2.33	--	2.31	--	2.81	3.34	--	2.9 J	3.4 J	3.7 J	--	3.7 J	2.2 J	3.1 J	3.55	3.83	3.78	4.33	3.74	4	3.34
TDS	mg/L	142	121	--	103	--	84	89.3	83.3	--	31.3	67.3	64	--	50	53.3	66	48.7	52.7	49.3	52	49.3	49.3	43.3
Appendix IV																								
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.000928 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00185 J	0.00121 J	0.00111 J	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000111 J	<6.8e-005	<8.1e-005
Barium	mg/L	0.0226	0.0202	0.0219	--	0.0215	--	0.019	0.0167	--	0.0246	0.0238	--	0.0231	0.0228	--	0.0211	0.025	0.0267	0.0285	0.0264	0.0316	0.0317	0.0325
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000468 J	0.000418 J	0.000242 J
Cobalt	mg/L	<0.002	0.00242 J	0.0024 J	--	<0.002	--	0.00217 J	0.00239 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000624	0.000603	0.000608
Combined Radium 226 + 228	pCi/L	1.34	0.561 U	0.118 U	--	0.984	--	0.473 U	-0.422 U	--	0.706	0.412	--	0.314 U	0.218 U	--	0.566 U	0.29 U	0.28 U	0.0983 U	0.767	0.817 U	0.345 U	0.413 U
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00201 J	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	7.41e-005 J	<6.8e-005	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Appendix A. Analytical Data Summary Plant Greene County Ash Pond

Analyte	Units	GC-AP-MW-32																								
		08/16/2016	09/19/2016	10/11/2016	11/01/2016	11/14/2016	11/28/2016	01/03/2017	01/24/2017	03/14/2017	05/10/2017	05/31/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/05/2018	03/27/2019	09/11/2019	04/22/2020	08/12/2020	03/15/2021	08/23/2021	03/28/2022	
Appendix III																										
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.02	--	<0.02	--	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	9.33	9.26	9.31	--	9.17	--	9.66	9.67	--	9.81	--	9.88	10.3	--	11.4	10.5	10.5	11.7	9.95	9.87	9.48	2.02	2.16	9.73	
Chloride	mg/L	4.24	4.13	4.07	--	4.08	--	4.06	4.4	--	4.4	--	4	4.8	--	3.8	4.1	3.9	3.86	4.21	4	4.17	5.57	5.55	3.98	
Fluoride	mg/L	0.054 J	0.023 J	0.011 J	--	<0.01	--	<0.01	--	<0.032	0.05 J	--	0.04 J	0.04 J	0.04 J	0.04 J	--	<0.032	<0.05	0.0518 J	<0.06	<0.06	<0.06	<0.06	<0.06	
pH_Field	pH	6	6	6.02	--	5.98	--	6.03	5.9	--	6	--	6.05	6.13	6.1	6.05	6.07	6.01	6.15	5.87	5.92	5.84	4.57	4.17	5.01	
Sulfate	mg/L	2.06	1.44	1.38	--	1.15	--	1.57	2.06	--	2.1 J	--	2.7 J	2.6 J	--	3.1 J	1.6 J	2.4 J	3.22	2.66	2.51	2.54	8.5	9.3	2.55	
TDS	mg/L	49.3	44.7	--	48	--	40.7	49.3	48.7	--	46.7	--	55.3	57.3	--	52.7	60	53.3	56	55.3	52.7	49.3	46	64.7	51.3	
Appendix IV																										
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00091 J	--	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000142 J	0.000192 J	<8.1e-005	
Barium	mg/L	0.0134	0.0125	0.0128	--	0.0129	--	0.0116	0.0118	--	0.0142	--	0.0127	--	0.0135	0.0126	--	0.0123	0.0138	0.0147	0.0133	0.0127	0.0692	0.0781	0.0132	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	--	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000431 J	0.000384 J	0.000336 J	
Cobalt	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000908	0.00101	<6.8e-005	
Combined Radium 226 + 228	pCi/L	0.951	0.242 U	0.34 U	--	0.447 U	--	0.729	0.184 U	--	--	0.454	-0.111 U	--	0.146 U	-0.128 U	--	0.0946 U	0.5	-0.464 U	0.474 U	3.18	1.11 U	1.09	0.682 U	
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000121 J	0.00015 J	<6.8e-005	
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.000592 J	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	

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



Analyte	Units	GC-AP-MW-33																							
		08/16/2016	09/19/2016	10/11/2016	11/01/2016	11/14/2016	11/28/2016	01/03/2017	01/25/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/27/2019	09/11/2019	04/22/2020	08/12/2020	03/15/2021	08/23/2021	03/28/2022	
Appendix III																									
Boron	mg/L	0.0268 J	0.0225 J	0.0304 J	--	0.0355 J	--	0.0304 J	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	5.54	3.01	2.74	--	2.47	--	2.94	2.91	--	2.27	2.2	2.26	--	2.97	2.6	2.42	2.75	2.17	3.15	1.78	9.77	9.48	2.21	
Chloride	mg/L	4.88	4.45	4.36	--	4.42	--	5.18	5.66	--	8	7.2	6.9	--	4.2	4.2	4.5	4.33	4.16	5.66	4.46	4.18	4.38	5.47	
Fluoride	mg/L	0.061 J	0.018 J	<0.01	--	<0.01	--	<0.01	--	<0.032	0.06 J	0.07 J	0.08 J	0.07 J	0.1	--	0.08 J	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	
pH_Field	pH	6.34	6.11	5.99	--	5.83	--	5.39	5.09	--	4.63	4.76	4.85	4.69	4.62	4.79	4.62	4.68	4.57	4.71	4.65	5.83	6.04	4.29	
Sulfate	mg/L	9.33	11.2	12.6	--	12.4	--	14.3	15.2	--	12	13	15	--	17	16	15	15.1	14.5	9.64	13.6	2.76	2	11.8	
TDS	mg/L	101	80	--	78	--	68.7	60.7	54.7	--	60.7	58	66.7	--	71.3	66.7	61.3	65.3	69.3	62.7	62	48	50.7	57.3	
Appendix IV																									
Antimony	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00112 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	0.00122 J	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	0.000144 J	
Barium	mg/L	0.0304	0.0215	0.0236	--	0.0206	--	0.0409	0.0455	--	0.0798	0.0679	--	0.0856	0.0875	--	0.0726	0.0912	0.0824	0.102	0.0601	0.0144	0.0146	0.0773	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000679 J	0.000502 J	0.000306 J	
Cobalt	mg/L	0.00923 J	0.00539 J	0.00506 J	--	0.00399 J	--	0.0037 J	0.0077 J	--	0.00291 J	0.00247 J	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	0.000992	
Combined Radium 226 + 228	pCi/L	0.534 U	0.238 U	0.158 U	--	0.641	--	0.834	0.605	--	0.563	0.937	--	0.475	1.65	--	1.55	1.83	1.02	1.08	3.41	0.771 U	1.01 U	1.36	
Lead	mg/L	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	0.000141 J	
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	0.000715 J	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	

Notes:

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



Analyte	Units	GC-AP-PZ-4							GC-AP-MW-34HA							GC-AP-MW-35H						
		09/12/2018	09/10/2019	04/20/2020	08/17/2020	03/10/2021	08/17/2021	04/05/2022	01/17/2019	09/10/2019	04/22/2020	08/12/2020	03/15/2021	08/23/2021	03/28/2022	01/16/2019	09/11/2019	04/21/2020	08/18/2020	03/16/2021	08/24/2021	04/06/2022
Appendix III																						
Boron	mg/L	--	0.293	0.308	0.344	0.338	0.296	0.351	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0284 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	172	160	147	153	157	149	210	25.3	12.8	12	9.68	12.6	11.1	11.3	19.6	22.2	47.3	22.9	24.9	21	23.7
Chloride	mg/L	12	10.9	9.87	9.78	8.48	8.13	7.86	7.87	5.54	7.6	2.07	5.81	4.36	3.52	3.1	1.15	3.62	1.12	1.91	2.79	1.48
Fluoride	mg/L	--	0.0831 J	0.132	0.0959 J	0.118	0.117	0.158	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.05	0.082 J	0.16	0.0766 J	0.0841 J	0.0681 J	<0.06
pH_Field	pH	6.13	5.79	5.99	5.94	6.04	5.64	5.95	--	4.87	5.45	4.78	5.32	5.54	4.44	--	5.6	6.54	6.03	6.16	6.08	5.24
Sulfate	mg/L	400	499	482	493	510	569	833	47.9	27.1	26.8	13.5	25.6	24.8	27	34.9	30	44.5	28.8	32.4	22.9	32.3
TDS	mg/L	714	854	824	826	876	900	1210	156	112	114	66	96	89.3	88.7	85.3	100	176	100	111	94	92
Appendix IV																						
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	--	0.00176 J	0.0029 J	0.00191 J	0.00597	0.0021	0.00404	<0.001	<0.001	<0.001	<0.001	0.000158 J	0.00042	0.000129 J	<0.001	<0.001	<0.001	<0.001	0.0001 J	0.000105 J	9.11e-005 J
Barium	mg/L	--	0.0787	0.0801	0.0718	0.0759	0.0781	0.0679	0.0714	0.0554	0.0578	0.0467	0.0532	0.0478	0.0481	0.0492	0.0369	0.0473	0.033	0.04	0.0336	0.0371
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	7.46e-005 J	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	0.000247 J	0.00033 J	<0.000203	<0.002	<0.002	<0.002	<0.002	0.000473 J	0.000298 J	0.000319 J	<0.002	<0.002	<0.002	<0.002	0.000912 J	0.000753 J	0.000382 J
Cobalt	mg/L	--	0.146	0.157	0.148	0.167	0.211	0.395	0.033	0.0131	0.00675	0.00222 J	0.00198	0.00159	0.00117	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	8.2e-005 J
Combined Radium 226 + 228	pCi/L	--	1.89	1.59	1.16	1.36 U	1.76	1.73	0.628	0.656	0.473 U	2.1	0.858 U	0.336 U	0.466 U	0.0207 U	0.734	0.423 U	0.636 U	0.536 U	0.492 U	0.108 U
Lead	mg/L	--	<0.001	<0.001	<0.001	<6.8e-005	0.000224	0.000202 J	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102
Selenium	mg/L	--	<0.002	0.00237 J	<0.002	0.0013	0.00321	0.00192	<0.002	<0.002	<0.002	<0.002	0.000704 J	<0.000508	0.0006 J	0.00367 J	0.00404 J	0.00451 J	0.00268 J	0.00362	0.00237	0.00364
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	7.61e-005 J	0.000106 J	9.45e-005 J	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Analyte	Units	GC-AP-MW-36H							GC-AP-MW-37H							GC-AP-MW-38H						
		01/30/2019	09/11/2019	04/22/2020	08/11/2020	03/09/2021	08/24/2021	03/30/2022	01/15/2019	04/22/2020	08/19/2020	03/16/2021	08/24/2021	03/28/2022	03/29/2022	01/14/2019	09/11/2019	04/22/2020	08/19/2020	03/10/2021	08/24/2021	03/30/2022
Appendix III																						
Boron	mg/L	0.164	0.147	0.143	0.145	0.159	0.139	0.145	0.224	0.186	0.229	0.159	0.179	--	0.157	0.148	0.175	0.118	0.135	0.104	0.105	0.102
Calcium	mg/L	2.85	1.16	0.941	1.06	0.99	1.07	1.01	231	175	143	148	143	--	118	123	84	83.9	96	96.2	109	93.5
Chloride	mg/L	3.04	3.95	4.4	3.28	2.9	2.91	3.04	13.4	10.3	13.9	13	9.19	--	5.57	37.9	3.82	2.25	3.4	2.3	4.46	3.8
Fluoride	mg/L	0.264	0.289	0.279	0.325	0.365	0.318	0.301	0.0512 J	0.197	0.141	0.263	0.194	--	0.189	0.0841 J	0.142	0.135	0.149	0.131	0.197	0.0661 J
pH_Field	pH	--	7.2	7.72	7.69	7.79	7.06	7.81	--	6.23	5.95	6.32	6.12	--	6.36	--	6.55	6.66	6.57	6.67	5.84	6.62
Sulfate	mg/L	11	11	10.9	8.73	10.4	9.79	10.3	780	510	402	368	383	--	303	103	60.5	66.5	70	44.8	68.2	51.9
TDS	mg/L	184	182	199	184	185	181	170	1210	977	834	756	742	--	624	381	280	290	308	308	345	282
Appendix IV																						
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	--	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0034 J	0.00222 J	0.00168 J	0.00223 J	0.00291	0.00235	0.00237	<0.001	0.00768	0.00618	0.00685	0.00811	--	0.011	<0.001	<0.001	<0.001	<0.001	<6.8e-005	0.00012 J	9.2e-005 J
Barium	mg/L	0.00776 J	0.00323 J	0.0027 J	0.00393 J	0.00297	0.00261	0.00372	0.0454	0.0248	0.0591	0.0347	0.037	--	0.0235	0.0814	0.0581	0.0607	0.0678	0.0719	0.0872	0.0702
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	--	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	--	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	0.0155	<0.002	<0.002	0.00143	0.000961 J	0.000273 J	<0.002	<0.002	<0.002	0.000381 J	0.000259 J	--	<0.000203	0.0117	<0.002	<0.002	<0.002	0.000421 J	0.000381 J	0.000381 J
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.000522	0.000321	0.000339	0.0407	0.0327	0.0176	0.0225	0.0228	--	0.0205	<0.002	0.00363 J	<0.002	<0.002	0.000455	0.000706	0.000371
Combined Radium 226 + 228	pCi/L	0.479 U	0.412 U	-0.103 U	0.223 U	0.296 U	0.253 U	0.174 U	0.354 U	0.273 U	0.994	0.954 U	0.282 U	0.405 U	0.405 U	0.359 U	1.22	0.413 U	0.347 U	0.566 U	0.417 U	0.248 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	0.000447	0.000306	0.00011 J	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	--	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	0.0141 J	0.0134 J	0.0108 J	0.0107 J	0.0112 J	--	0.00871 J	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.000166 J	8.67e-005 J	0.000175 J	<0.002	<0.002	<0.002	0.000373	0.000369	--	0.00079	0.00574 J	0.00203 J	<0.002	<0.002	0.000699	0.000476	0.000759
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	--	<0.000508	0.018	0.0155	0.0111	0.0108	0.0124	0.0148	0.00902
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	--	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Analyte	Units	GC-AP-MW-39H							GC-AP-MW-40H							GC-AP-MW-41H							
		01/15/2019	09/11/2019	04/22/2020	08/11/2020	03/09/2021	08/24/2021	04/06/2022	01/15/2019	09/10/2019	04/20/2020	08/12/2020	03/10/2021	08/25/2021	03/30/2022	01/15/2019	09/11/2019	04/29/2020	08/18/2020	03/15/2021	08/25/2021	04/06/2022	
Appendix III																							
Boron	mg/L	1.68	1.67	1.89	1.84	1.81	2	2.14	0.702	0.734	0.821	0.807	0.807	0.627	0.506	0.762	0.758	0.699	0.689	0.659	0.632	0.607	
Calcium	mg/L	97.6	91.6	102	111	108	115	119	60.7	97.5	88.2	115	109	108	96	115	72.1	70.8	66.7	70.4	78.3	110	
Chloride	mg/L	14.3	14.1	12.9	7.85	8.06	7.38	8.43	13	10.5	10.8	8.34	6.74	6.66	5.72	16.6	16.5	16.1	15.9	15.9	14.4	13.6	
Fluoride	mg/L	0.465	0.443	0.446	0.494	0.458	0.508	0.363	0.0981 J	0.18	0.0952 J	0.145	0.112	0.142	<0.06	0.0859 J	0.0609 J	0.0857 J	0.092 J	0.0721 J	0.074 J	<0.06	
pH_Field	pH	--	6.17	6.42	6.7	6.47	6.13	6.31	--	5.61	5.63	5.83	5.99	5.91	5.69	--	5.96	6.37	5.93	6.43	6.13	6.16	
Sulfate	mg/L	48.5	44.1	31.7	51.7	32.2	34.1	34.9	224	291	247	285	292	330	290	96	79.1	77.2	76.6	80.9	147	236	
TDS	mg/L	597	454	512	526	524	490	452	392	576	534	588	602	562	493	433	334	317	299	321	376	488	
Appendix IV																							
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	0.0514	0.053	0.0533	0.0635	0.0697	0.069	0.0524	<0.001	<0.001	<0.001	<0.001	0.000443	0.000434	0.000303	0.002 J	0.00208 J	0.00182 J	0.00171 J	0.00174	0.00182	0.00165	
Barium	mg/L	0.185	0.173	0.192	0.177	0.206	0.213	0.173	0.0361	0.0294	0.0282	0.0295	0.0322	0.0296	0.0277	0.13	0.1	0.0998	0.0879	0.116	0.128	0.134	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000171 J	8.41e-005 J	0.00015 J	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.000342 J	0.000327 J	0.000286 J	<0.002	<0.002	<0.002	<0.002	0.000226 J	0.000232 J	<0.000203	<0.002	<0.002	<0.002	<0.002	0.000553 J	0.000392 J	0.000231 J	
Cobalt	mg/L	0.0173	0.0194	0.0192	0.0176	0.0178	0.0183	0.0179	0.0203	0.0139	0.0132	0.00717	0.00791	0.00901	0.0103	0.0044 J	0.00897	0.00777	0.00814	0.00472	0.0101	0.0181	
Combined Radium 226 + 228	pCi/L	0.901	1.16	1.48	2.02	1.62	0.823 U	1.24	0.387 U	0.519 U	0.66	0.928	0.522 U	1.09 U	0.745 U	0.839	0.13 U	0.684	0.742	0.946 U	0.938 U	1.12	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	
Lithium	mg/L	0.399	0.45	0.41	0.47	0.474	0.47	0.355	0.407	0.545	0.628	0.669	0.772	0.734	0.716	0.0411	0.0396	0.041	0.039	0.0459	0.0545	0.0897	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.00419 J	0.00338 J	0.00246 J	0.00401 J	0.0047	0.00376	0.00174	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.002	<0.002	<0.002	<0.002	0.000131 J	9.62e-005 J	0.000131 J	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	
Thallium	mg/L	0.00092 J	0.000983 J	0.0008 J	0.000814 J	0.000828	0.000762	0.00058	<0.0002	0.000223 J	<0.0002	0.000208 J	0.000186 J	0.000134 J	0.000183 J	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	

Notes:

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



Analyte	Units	GC-AP-MW-43H							GC-AP-MW-43H							GC-AP-MW-44H						
		01/15/2019	09/11/2019	04/21/2020	08/19/2020	03/09/2021	08/18/2021	04/06/2022	01/16/2019	09/11/2019	04/21/2020	08/19/2020	03/09/2021	08/18/2021	04/06/2022	01/16/2019	09/11/2019	04/20/2020	08/12/2020	03/10/2021	08/23/2021	04/04/2022
Appendix III																						
Boron	mg/L	1.73	1.88	1.76	1.26	1.26	1.03	1.44	0.835	1.07	1.08	1.15	1.14	1.23	1.26	0.173	0.199	0.2	0.197	0.218	0.208	0.202
Calcium	mg/L	70	57.2	56.5	59.3	69.5	74.4	60.7	54.9	60.7	81.4	99.7	102	106	110	174	179	167	173	159	138	137
Chloride	mg/L	19.9	20.7	19.9	18.2	18.4	17	15.4	26.1	31.4	40.4	46.9	41.6	35.8	37.1	12.3	11.8	12	10.8	11.9	13.1	13.7
Fluoride	mg/L	<0.05	0.063 J	0.0701 J	0.077 J	0.0697 J	0.111	0.0664 J	0.0888 J	0.127	0.147	0.154	0.135	0.166	0.133	0.0727 J	0.0783 J	0.0638 J	0.0867 J	0.0611 J	0.11	<0.06
pH_Field	pH	--	6.2	6.01	6.27	6.29	6.16	6.1	--	6.52	6.18	6.18	6.47	6.46	6.43	--	6.11	6.11	6.27	6.14	6.07	5.56
Sulfate	mg/L	9.73	9.43	12.4	55.7	74.8	83.6	95.9	74	45.7	59.7	71.8	91.3	107	106	394	409	429	415	410	406	390
TDS	mg/L	334	299	299	371	375	401	368	345	368	463	534	570	578	562	706	1570	790	728	794	714	604
Appendix IV																						
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00372 J	0.00583	0.00417 J	0.00445 J	0.00343	0.00456	0.00515	0.00816	0.0124	0.0101	0.0103	0.0117	0.0116	0.011	<0.001	0.00269 J	0.00215 J	0.00197 J	0.00172	0.00263	0.0013
Barium	mg/L	0.162	0.123	0.108	0.119	0.135	0.145	0.151	0.12	0.127	0.156	0.168	0.211	0.187	0.169	0.131	0.0797	0.0594	0.0589	0.064	0.0596	0.0495
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	0.000682	8.98e-005 J	0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	0.000411	0.00032	0.000393
Chromium	mg/L	<0.002	0.00325 J	<0.002	<0.002	0.000286 J	<0.000203	0.000278 J	<0.002	<0.002	<0.002	<0.002	0.000227 J	<0.000203	0.000264 J	<0.002	<0.002	<0.002	<0.002	0.000428 J	0.000302 J	0.000225 J
Cobalt	mg/L	0.0281	0.0449	0.0359	0.037	0.0559	0.0436	0.0704	0.0131	0.0143	0.0162	0.0173	0.0175	0.0196	0.0183	0.106	0.106	0.324	0.273	0.415	0.428	0.324
Combined Radium 226 + 228	pCi/L	0.739	0.195 U	0.678	0.687	0.618 U	1.9	1.01	0.426 U	0.558 U	1.89	1.99	1.54	1.64	1.84	0.422 U	0.637 U	0.386 U	4.07	0.923 U	1.13	0.795 U
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0146 J	0.0169 J	0.0174 J	0.0168 J	0.0172 J	0.0304	0.0246	0.178	0.254	0.376	0.336	0.448	0.344	0.288	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.000315	0.000148 J	0.000233	<0.002	<0.002	<0.002	<0.002	0.0026	0.00283	0.00264	<0.002	<0.002	<0.002	<0.002	0.000171 J	0.000182 J	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

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



Analyte	Units	GC-AP-MW-45H						GC-AP-MW-46HO					GC-AP-MW-47HO					GC-AP-MW-48H					
		12/17/2019	04/20/2020	08/17/2020	03/10/2021	08/18/2021	03/29/2022	07/06/2020	08/11/2020	03/08/2021	08/17/2021	03/23/2022	05/28/2020	08/11/2020	03/08/2021	08/17/2021	03/23/2022	12/17/2019	04/21/2020	08/17/2020	03/10/2021	08/18/2021	03/30/2022
Appendix III																							
Boron	mg/L	0.186	0.426	0.57	0.625	0.646	0.57	0.274	0.252	0.658	0.392	0.341	0.143	0.0903 J	0.0769 J	0.105	0.151	0.237	0.172	0.218	0.188	0.131	0.101 J
Calcium	mg/L	47.6	64.9	57.2	39.3	122	109	51.1	57.8	47.1	54.2	53.1	38.6	15.9	12.9	16.4	20.7	31	28.9	27.6	22.1	18	13.9
Chloride	mg/L	8.56	10.9	8.99	6.5	9.94	9.44	4.5	4.27	8.51	7.84	7.84	4.92	3.18	8.78	8.79	8.82	14.3	12.3	11.9	8.31	4.07	3.44
Fluoride	mg/L	0.241	0.176	0.195	0.176	0.172	0.162	0.185	0.169	0.187	0.169	0.158	0.0647 J	<0.06	<0.06	<0.06	<0.06	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	pH	7.72	7.14	6.94	6.83	6.84	6.83	6.69	6.38	6.86	6.7	6.55	6.99	6.25	5.74	5.98	5.3	6.65	6.5	6.24	6.35	5.96	5.4
Sulfate	mg/L	94.6	157	128	90.9	395	361	83.4	54.5	96.1	111	131	81.5	49.3	31.4	52.1	61.6	102	90.2	78	62	49.4	36.4
TDS	mg/L	247	369	305	247	730	646	260	258	282	303	297	195	109	93.3	121	137	228	208	181	158	121	84
Appendix IV																							
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	0.00153 J	<0.001	0.00147	0.00143	0.000699	<0.001	<0.001	0.000339	0.000262	0.000182 J	<0.001	<0.001	0.000152 J	0.000136 J	<8.1e-005	<0.001	0.0021 J	<0.001	0.000557	0.000247	0.000228
Barium	mg/L	0.0977	0.0898	0.0632	0.0543	0.0942	0.0533	0.0613	0.0653	0.0523	0.0578	0.0584	0.0267	0.0204	0.0229	0.0297	0.0354	0.05	0.028	0.027	0.0281	0.0244	0.0253
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	7.26e-005 J	<6.8e-005
Chromium	mg/L	0.00266 J	<0.002	<0.002	0.000314 J	0.0003 J	0.000228 J	<0.002	<0.002	<0.000203	0.000319 J	<0.000203	<0.002	<0.002	<0.000203	0.00039 J	0.000398 J	<0.002	<0.002	<0.002	0.00026 J	0.000216 J	0.000237 J
Cobalt	mg/L	0.00465 J	0.00451 J	0.00458 J	0.00442	0.0119	0.0108	<0.002	<0.002	0.00155	0.00295	0.0053	<0.002	<0.002	<6.8e-005	0.000247	0.000209	0.00916	0.00236 J	<0.002	0.000388	0.000395	0.000155 J
Combined Radium 226 + 228	pCi/L	0.885	0.529	1.16	0.21 U	1.1	0.661 U	0.292 U	0.477 U	0.291 U	0.651 U	0.547 U	-0.0036 U	0.208 U	0.568 U	0.339 U	0.214 U	0.604	0.251 U	1.11	0.57 U	0.595 U	0.315 U
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.123	0.148	0.212	0.194	0.367	0.422	0.089	0.097	0.0991	0.112	0.123	0.0527	0.0457	0.0456	0.0453	0.0531	0.113	0.0924	0.108	0.102	0.0821	0.0717
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0721	0.0703	0.0737	0.0852	0.0752	0.0652	0.0661	0.0443	0.0761	0.0556	0.0473	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.002	<0.002	<0.002	0.000144 J	9.4e-005 J	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	0.000103 J	0.000205	0.000145 J	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Analyte	Units	GC-AP-MW-49H						GC-AP-MW-50H					GC-AP-MW-52H				GC-AP-MW-53H						
		12/17/2019	04/21/2020	08/19/2020	03/10/2021	08/18/2021	03/30/2022	05/28/2020	08/11/2020	03/08/2021	08/17/2021	03/23/2022	07/06/2020	08/11/2020	03/08/2021	08/16/2021	03/23/2022	12/17/2019	04/20/2020	08/11/2020	03/10/2021	08/23/2021	04/06/2022
Appendix III																							
Boron	mg/L	0.252	0.272	0.213	0.224	0.157	0.33	0.343	0.329	0.302	0.281	0.499	1.2	1.25	1.25	1.35	1.26	0.288	0.309	0.493	0.338	0.517	0.329
Calcium	mg/L	48.5	36.8	27.4	27.3	19.5	29.7	40.1	39.5	32.7	38.1	38.2	75.6	73.1	63.3	61.7	68.9	115	93.1	92.8	80.8	79.2	74.4
Chloride	mg/L	13.3	11.3	7.53	7.57	5.3	8.12	13.4	11.2	13.7	14.5	17.7	103	87.4	90	60.4	119	23.9	23.9	21.2	19.4	21.1	8.07
Fluoride	mg/L	0.143	0.075 J	0.0823 J	<0.06	0.0638 J	0.0724 J	0.138	0.16	0.127	0.155	0.16	0.0721 J	0.0762 J	0.0628 J	0.0613 J	<0.06	0.215	0.154	0.133	0.135	0.245	0.101 J
pH_Field	pH	6.72	6.28	6.14	6.14	6.05	5.72	6.42	6.24	6.36	6.07	6.17	6.07	6.08	5.98	5.98	6.14	6.32	6.17	5.8	6.58	6.33	6.23
Sulfate	mg/L	94.1	90.8	70.7	76.1	51.4	106	94.7	79	71.5	83.1	60.4	78.2	64.1	56.9	41.8	38.9	38.1	14.7	12.6	44.2	11.6	117
TDS	mg/L	258	222	171	181	130	184	242	229	218	217	236	498	462	469	390	498	624	441	434	408	390	428
Appendix IV																							
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	<0.001	0.000592	0.000739	0.000466	<0.001	<0.001	0.000267	0.000319	0.000144 J	<0.001	<0.001	0.00027	0.000189 J	0.000262	0.0492	0.0806	0.0869	0.213	0.225	0.229
Barium	mg/L	0.0761	0.0437	0.0394	0.0406	0.0492	0.0645	0.0701	0.064	0.0685	0.0707	0.0799	0.129	0.116	0.131	0.129	0.149	0.292	0.278	0.246	0.393	0.377	0.368
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	0.000334 J	0.00017 J	0.000212	0.000296	<0.0003	<0.0003	0.000287	0.000242	0.000437	0.000366 J	0.00042 J	0.000227	0.000222	9.23e-005 J	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	0.000366 J	0.000402 J	0.000211 J	<0.002	<0.002	0.00028 J	0.000808 J	0.00051 J	<0.002	<0.002	<0.000203	0.000294 J	0.000381 J	<0.002	<0.002	<0.002	0.000474 J	0.000456 J	0.000276 J
Cobalt	mg/L	0.0139	0.00799	0.00853	0.00662	0.00507	0.00562	0.00801	0.0056	0.00553	0.00608	0.0096	0.0158	0.0129	0.0153	0.0146	0.0157	0.14	0.119	0.0859	0.0204	0.0233	0.00706
Combined Radium 226 + 228	pCi/L	0.701	0.594	0.0107 U	0.261 U	1.11 U	0.254 U	0.612	0.883	1 U	0.939 U	0.908 U	0.432 U	0.777	2.06	1.3	0.999	0.791	1.13	1.56	1.29 U	2.06	1.59
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	0.000122 J	0.000294	0.00013 J	<0.001	<0.001	<6.8e-005	<6.8e-005	8.39e-005 J	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0528	0.0733	0.0511	0.0681	0.0538	0.0732	0.0979	0.0825	0.119	0.106	0.11	<0.01	<0.01	<0.007105	<0.007105	<0.007105	0.0124 J	0.0107 J	0.0125 J	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00854 J	<0.002	<0.002	0.000173 J	0.000223	0.000187 J	<0.002	<0.002	<6.8e-005	8.68e-005 J	<0.000102	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	0.00216 J	<0.002	<0.002	0.00131	0.00142	0.000823
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	7.98e-005 J	0.000101 J	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

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



Analyte	Units	GC-AP-MW-54H						GC-AP-MW-55HO					GC-AP-MW-57H					GC-AP-MW-59HO					
		12/16/2019	04/20/2020	08/12/2020	03/10/2021	08/23/2021	04/05/2022	05/28/2020	08/11/2020	03/09/2021	08/17/2021	03/23/2022	12/16/2019	04/20/2020	08/12/2020	03/10/2021	08/23/2021	04/05/2022	05/28/2020	08/11/2020	03/09/2021	08/17/2021	03/23/2022
Appendix III																							
Boron	mg/L	0.519	0.626	0.76	0.53	0.458	0.462	0.0435 J	0.0406 J	0.0397 J	<0.03	0.0318 J	0.305	0.252	0.338	0.126	0.211	0.104	0.208	0.209	0.192	0.192	0.19
Calcium	mg/L	110	98.8	101	92.8	78.2	95.6	2.61	2.43	2.62	1.96	2.26	90.8	69.5	79.1	29	41.4	18.1	72.4	76.7	60.5	69.8	57.3
Chloride	mg/L	11.4	9.74	10.8	11.5	6.89	8.13	6.88	6.21	5.06	4.25	4.56	8.94	7.88	6.3	55.3	8.41	19.1	12.1	12.1	10.4	10.8	9.19
Fluoride	mg/L	0.246	0.25	0.275	0.25	0.328	0.219	<0.06	<0.06	<0.06	<0.06	<0.06	0.162	0.189	0.165	0.112	0.244	<0.06	0.0914 J	0.137	0.0715 J	0.096 J	0.0775 J
pH_Field	pH	6.89	6.58	6.67	6.87	6.67	6.59	4.47	5.1	5.13	4.89	5.2	6.68	6.12	6.48	5.96	6.34	5.41	5.99	6.16	5.94	5.85	5.88
Sulfate	mg/L	207	242	180	139	106	114	10.3	9.32	9.2	7.2	8.46	212	252	274	66.5	117	52	198	206	202	214	225
TDS	mg/L	562	545	497	444	405	419	56.7	52.7	52	45.3	47.3	496	502	491	273	301	152	401	407	386	403	389
Appendix IV																							
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.328	0.41	0.467	0.45	0.454	0.401	<0.001	<0.001	0.00013 J	9.15e-005 J	<8.1e-005	0.0156	0.0375	0.0467	0.0196	0.029	0.00687	0.00208 J	<0.001	0.00103	0.000699	0.000819
Barium	mg/L	0.263	0.259	0.221	0.19	0.2	0.185	0.0389	0.0337	0.0404	0.0317	0.0352	0.111	0.0771	0.0796	0.103	0.084	0.088	0.127	0.0909	0.0795	0.0669	0.0642
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	0.000799 J	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	7.08e-005 J	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	<0.002	0.000574 J	0.000388 J	<0.000203	<0.002	<0.002	0.000619 J	0.000637 J	0.00107	<0.002	<0.002	<0.002	0.000271 J	0.000289 J	0.000249 J	0.00515 J	<0.002	0.000256 J	0.000573 J	0.000309 J
Cobalt	mg/L	0.00496 J	0.0203	0.0272	0.0239	0.031	0.0271	<0.002	<0.002	0.000738	0.000946	0.000901	0.0309	0.0862	0.0857	0.0345	0.0477	0.0193	0.0445	0.022	0.0263	0.0216	0.0275
Combined Radium 226 + 228	pCi/L	1.44	1	2.14	1.41	0.978 U	0.963 U	0.0544 U	0.462 U	1.02 U	0.442 U	0.748 U	0.372 U	1.5	0.991	1.25 U	1.52	0.689 U	2.27	0.997	1.6	1.19 U	1.02 U
Lead	mg/L	<0.001	<0.001	<0.001	9.49e-005 J	<6.8e-005	<6.8e-005	<0.001	<0.001	8.75e-005 J	<6.8e-005	0.000102 J	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	0.00022	0.0026 J	<0.001	<6.8e-005	0.000172 J	<6.8e-005
Lithium	mg/L	0.102	0.101	0.105	0.0906	0.0805	0.0634	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0036 J	0.00223 J	0.00278 J	0.00289	0.00312	0.00291	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.002	<0.002	<0.002	0.000369	0.000892	0.000396	<0.002	<0.002	0.000127 J	0.000184 J	<0.000102
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	0.00059 J	<0.002	<0.002	0.000652 J	0.00051 J	0.00097 J
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	0.000121 J	0.000117 J

Notes:

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



Analyte	Units	GC-AP-MW-60HO			GC-AP-MW-61HO			GC-AP-MW-62HO			GC-AP-MW-63HO			GC-AP-MW-64HO			GC-AP-PZ-19	GC-AP-18-W-2	GC-AP-18-W-4	GC-AP-18-W-6
		06/29/2021	08/17/2021	03/23/2022	06/29/2021	08/17/2021	03/23/2022	06/29/2021	08/17/2021	03/23/2022	06/29/2021	08/17/2021	03/23/2022	06/29/2021	08/17/2021	03/23/2022	09/12/2018	02/06/2019	02/06/2019	02/06/2019
Appendix III																				
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0323 J	0.0343 J	<0.03	0.0323 J	0.527	0.571	0.549	--	0.982	5.21	1.56
Calcium	mg/L	3.94	3.97	2.95	47	36	23.9	33.5	20.3	8.23	9.43	8.92	6.08	51.5	54.6	63.2	155	138	245	276
Chloride	mg/L	4.5	4.94	4.08	2.83	3.13	2.07	3.4	3.28	3.19	2.92	3.37	2.42	8.53	10.9	16.1	24	16.4	28.6	13.3
Fluoride	mg/L	<0.06	<0.06	<0.06	0.119	0.142	0.0871 J	0.0632 J	0.0716 J	<0.06	<0.06	<0.06	<0.06	0.238	0.225	0.251	--	<0.05	0.166	0.321
pH_Field	pH	5.27	5.15	5.22	7.1	6.84	6.38	7.04	6.33	5.82	5.69	5.58	5.34	6.97	7.03	6.92	6.6	--	--	--
Sulfate	mg/L	7.67	6.86	6.73	12.3	12.9	10.1	16.4	14.9	15.9	20.6	22.7	18.5	110	128	156	160	53.4	53.3	690
TDS	mg/L	32.7	43.3	39.3	124	107	74	101	59.3	44.7	49.3	53.3	41.3	278	318	373	538	494	852	1190
Appendix IV																				
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	--	0.00105 J	<0.0008	<0.0008
Arsenic	mg/L	<6.8e-005	<6.8e-005	<8.1e-005	0.000518	0.000363	0.000319	0.000301	0.000263	<8.1e-005	0.000106 J	0.000119 J	<8.1e-005	0.000649	0.00051	0.0003	--	0.279	0.35	1.17
Barium	mg/L	0.0372	0.0379	0.0362	0.0484	0.0383	0.0413	0.0553	0.0727	0.0814	0.0594	0.0597	0.0533	0.0778	0.0762	0.0934	--	0.732	2.31	0.0492
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	--	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	7.13e-005 J	0.000109 J	0.000119 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	0.000694 J	0.00065 J	0.00111	0.000965 J	0.000469 J	0.000654 J	0.00062 J	0.000673 J	0.000723 J	0.000352 J	0.000353 J	0.000448 J	0.000807 J	0.000856 J	0.000614 J	--	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00108	0.00077	0.000701	0.000587	0.000493	0.000286	0.000376	0.000335	0.000103 J	0.000907	0.000809	0.000286	0.00376	0.00348	0.00419	--	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.765 U	0.612 U	0.932 U	0.564 U	0.404 U	0.201 U	0.648 U	0.437 U	0.829 U	0.307 U	0.219 U	0.207 U	0.87 U	0.56 U	1.03	--	--	--	--
Lead	mg/L	0.000121 J	<6.8e-005	<6.8e-005	0.000224	<6.8e-005	<6.8e-005	0.000152 J	0.000109 J	0.000159 J	<6.8e-005	<6.8e-005	<6.8e-005	0.000281	0.000224	0.000157 J	--	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.128	0.142	0.159	--	0.417	1.58	0.859
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	9.82e-005 J	<6.8e-005	<0.000102	0.00245	0.00151	0.000524	0.00136	0.000551	0.000126 J	0.000232	7.12e-005 J	<0.000102	0.0675	0.0676	0.0639	--	<0.002	0.0101	0.0235
Selenium	mg/L	0.00135	0.00115	0.00116	0.000905 J	0.00065 J	0.000641 J	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	--	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	8.38e-005 J	9.41e-005 J	--	<0.0002	<0.0002	<0.0002

Notes:

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

Appendix B

**Appendix D.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)										
		2/16/2016	4/12/2016	5/31/2016	8/15/2016	10/10/2016	10/31/2016	11/28/2016	1/3/2017	1/23/2017	3/13/2017	5/8/2017
GC-AP-MW-1	107.79	91.71	92.37	91.82	91.33	90.88	90.67	--	--	90.99	91.22	91.14
GC-AP-MW-2	106.14	100.75	100.88	99.97	99.94	99.46	99.30	--	--	100.40	100.08	99.62
GC-AP-MW-3	106.39	100.37	100.52	99.41	99.40	99.02	98.95	--	--	100.14	99.84	99.31
GC-AP-PZ-4	103.53	94.60	95.26	93.17	92.68	91.90	91.65	--	--	94.17	94.56	93.57
GC-AP-MW-5	108.43	100.46	100.96	98.30	98.29	97.16	96.77	--	--	100.68	100.41	98.87
GC-AP-MW-6	102.05	98.70	98.78	97.29	97.43	95.30	94.54	--	--	98.38	98.08	96.98
GC-AP-MW-7	98.56	92.12	92.51	90.50	90.10	87.24	86.29	--	--	91.64	91.60	90.35
GC-AP-MW-8	97.11	90.73	91.16	89.12	88.75	85.82	84.86	--	--	90.09	89.94	88.69
GC-AP-MW-9	93.19	89.55	89.88	88.03	87.66	84.74	83.73	--	--	89.18	88.98	87.46
GC-AP-MW-10	87.84	84.57	84.69	83.58	84.20	82.61	82.09	--	--	83.74	83.65	82.99
GC-AP-MW-11	101.18	86.37	86.58	85.77	85.52	84.30	83.92	--	--	84.90	84.66	84.25
GC-AP-MW-12	103.26	87.44	87.65	86.64	86.93	85.13	84.87	--	--	85.42	85.27	85.15
GC-AP-MW-13	101.18	83.23	83.50	81.94	82.18	80.46	80.00	--	--	80.53	81.11	80.80
GC-AP-MW-14	85.61	81.60	81.85	78.33	78.68	76.90	76.19	--	--	81.38	80.22	77.46
GC-AP-MW-15	91.69	77.93	78.29	74.64	74.74	74.04	73.83	--	--	78.63	78.13	75.00
GC-AP-MW-16	108.79	78.42	78.25	74.88	74.72	74.19	74.58	--	--	78.11	78.25	75.35
GC-AP-MW-17	106.40	78.70	78.75	74.62	74.48	73.78	73.61	--	--	78.30	78.05	75.01
GC-AP-MW-18	105.04	79.40	79.73	75.72	75.82	75.17	75.05	--	--	79.93	79.47	76.30
GC-AP-PZ-19	104.91	77.92	77.97	75.20	75.28	74.82	74.69	--	--	78.02	78.30	75.72
GC-AP-MW-21	105.72	84.55	84.69	83.72	84.18	82.20	81.95	--	--	82.68	82.35	82.15
GC-AP-PZ-22	104.64	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-23	102.64	91.35	92.17	92.14	91.38	90.98	90.82	--	--	90.84	91.39	91.42
GC-AP-MW-24	106.05	86.03	86.82	86.99	86.34	86.02	85.86	--	--	85.58	86.06	86.26
GC-AP-MW-25	104.98	86.38	86.29	84.51	85.05	83.48	82.79	--	--	85.66	85.42	84.35
GC-AP-MW-26	89.25	--	--	--	78.97	77.75	77.27	76.77	76.93	78.75	83.03	82.62
GC-AP-MW-27	90.68	--	--	--	77.49	76.31	75.86	75.34	75.53	76.94	80.17	80.74
GC-AP-MW-28	89.36	--	--	--	78.88	77.90	77.51	77.11	77.51	79.13	81.36	81.70
GC-AP-MW-29	89.32	--	--	--	83.77	82.65	82.20	81.62	81.62	83.00	86.44	87.10
GC-AP-MW-30	89.87	--	--	--	94.05	93.04	92.59	92.11	92.83	95.33	97.44	97.15
GC-AP-MW-31	94.19	--	--	--	98.01	96.76	90.22	96.06	97.09	99.05	101.65	100.88
GC-AP-MW-32	105.85	--	--	--	91.14	90.67	87.15	90.25	90.09	90.08	90.54	90.76
GC-AP-MW-33	108.99	--	--	--	84.10	83.43	92.59	82.83	82.64	83.04	83.69	84.85

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix D.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)										
		2/16/2016	4/12/2016	5/31/2016	8/15/2016	10/10/2016	10/31/2016	11/28/2016	1/3/2017	1/23/2017	3/13/2017	5/8/2017
GC-AP-MW-34HA	108.38	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-35H	102.64	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-36H	105.17	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-37H	106.04	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-38H	106.58	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-39H	109.89	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-40H	87.53	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-41H	86.57	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-42H	87.56	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-43H	91.76	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-44H	101.13	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-45H	95.14	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-46HO	93.35	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-47HO	93.86	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-48H	90.11	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-49H	91.71	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-50HO	88.92	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-52HO	91.77	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-53H	102.31	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-54H	102.94	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-55H0	114.37	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-57H	100.43	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-59HO	101.69	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-60HO	108.47	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-61HO	109.69	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-62HO	89.89	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-63HO	91.08	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-64HO	95.65	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix D.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)										
		6/27/2017	8/28/2017	2/26/2018	6/4/2018	9/10/2018	11/5/2018	3/25/2019	9/9/2019	2/17/2020	4/20/2020	5/28/2020
GC-AP-MW-1	107.79	91.76	91.31	90.96	91.27	90.43	90.00	91.46	90.65	91.44	92.01	91.76
GC-AP-MW-2	106.14	100.00	98.97	99.78	99.29	98.90	98.83	99.67	97.66	99.15	99.01	98.35
GC-AP-MW-3	106.39	99.56	98.55	100.02	99.09	98.63	98.77	99.26	97.70	98.82	98.80	98.14
GC-AP-PZ-4	103.53	94.63	92.43	94.83	94.24	92.04	91.49	94.86	92.34	95.14	94.70	93.63
GC-AP-MW-5	108.43	99.77	96.90	100.86	99.30	97.19	96.00	99.21	96.17	99.10	98.25	96.78
GC-AP-MW-6	102.05	97.75	95.13	98.31	97.42	96.11	95.59	97.12	95.50	97.70	96.95	96.24
GC-AP-MW-7	98.56	91.34	87.79	92.00	91.05	88.18	87.67	90.75	89.00	91.40	90.46	88.94
GC-AP-MW-8	97.11	89.59	86.41	90.52	89.32	86.88	86.31	88.95	87.58	90.14	89.00	87.59
GC-AP-MW-9	93.19	88.64	85.05	89.66	88.30	85.48	85.14	88.02	86.24	89.29	87.57	86.10
GC-AP-MW-10	87.84	84.26	82.00	84.04	83.40	83.53	83.51	83.27	81.58	--	83.99	83.19
GC-AP-MW-11	101.18	85.26	83.76	84.97	84.87	84.43	84.09	85.01	82.34	88.74	85.33	84.13
GC-AP-MW-12	103.26	85.74	85.08	85.61	85.44	85.19	84.95	84.87	81.18	88.97	85.40	81.87
GC-AP-MW-13	101.18	84.35	80.73	82.18	81.64	80.53	80.12	81.88	77.68	88.64	83.68	78.31
GC-AP-MW-14	85.61	84.38	76.62	82.25	78.72	77.61	76.89	79.53	75.82	--	83.81	77.88
GC-AP-MW-15	91.69	83.64	74.42	79.93	75.90	75.07	74.75	76.55	74.16	--	82.89	76.01
GC-AP-MW-16	108.79	84.14	74.87	79.84	76.51	75.40	75.11	77.15	74.54	90.16	83.18	76.41
GC-AP-MW-17	106.40	83.48	74.45	79.75	76.01	75.97	74.83	76.73	74.07	90.92	84.31	77.73
GC-AP-MW-18	105.04	84.80	75.75	81.18	77.06	76.98	76.14	77.61	75.43	90.64	83.94	77.19
GC-AP-PZ-19	104.91	88.07	75.34	79.69	76.71	75.78	84.39	77.09	75.16	90.15	83.09	76.51
GC-AP-MW-21	105.72	82.84	82.01	82.55	82.45	82.16	81.93	82.62	78.33	89.01	85.68	82.42
GC-AP-PZ-22	104.64	--	--	--	--	--	--	--	--	90.24	90.29	90.31
GC-AP-MW-23	102.64	91.84	91.72	91.53	92.05	91.18	90.79	93.01	91.86	89.42	89.99	89.78
GC-AP-MW-24	106.05	86.37	86.70	86.12	85.16	86.22	85.71	87.93	86.86	88.68	89.58	89.29
GC-AP-MW-25	104.98	86.20	83.87	85.11	84.89	85.16	83.39	84.76	82.29	100.88	99.30	97.88
GC-AP-MW-26	89.25	84.98	81.01	85.57	83.44	79.43	78.74	83.84	79.48	--	86.10	85.13
GC-AP-MW-27	90.68	82.75	79.35	82.41	81.37	77.83	77.05	81.79	77.74	--	84.59	83.55
GC-AP-MW-28	89.36	84.58	80.59	83.40	82.30	79.18	78.48	82.96	79.11	--	84.01	82.56
GC-AP-MW-29	89.32	89.66	85.73	89.73	87.83	84.11	83.38	88.18	84.20	--	85.75	84.42
GC-AP-MW-30	89.87	99.45	95.99	98.86	97.66	94.82	93.91	97.82	95.41	--	83.58	82.76
GC-AP-MW-31	94.19	103.35	98.66	104.17	102.60	97.92	97.48	102.50	99.15	90.02	90.34	86.81
GC-AP-MW-32	105.85	90.80	90.74	90.38	91.27	90.57	90.29	92.13	91.41	89.21	90.18	90.05
GC-AP-MW-33	108.99	84.84	84.58	83.52	84.58	83.25	82.88	85.74	84.38	90.41	90.84	90.45

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix D.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)										
		6/27/2017	8/28/2017	2/26/2018	6/4/2018	9/10/2018	11/5/2018	3/25/2019	9/9/2019	2/17/2020	4/20/2020	5/28/2020
GC-AP-MW-34HA	108.38	--	--	--	--	--	--	--	86.26	86.75	88.38	88.32
GC-AP-MW-35H	102.64	--	--	--	--	--	--	--	80.56	90.91	84.17	81.38
GC-AP-MW-36H	105.17	--	--	--	--	--	--	--	78.64	90.80	83.84	79.42
GC-AP-MW-37H	106.04	--	--	--	--	--	--	--	76.95	90.67	84.94	79.91
GC-AP-MW-38H	106.58	--	--	--	--	--	--	--	86.98	90.50	87.48	87.26
GC-AP-MW-39H	109.89	--	--	--	--	--	--	--	74.41	89.99	82.94	76.08
GC-AP-MW-40H	87.53	--	--	--	--	--	--	--	74.08	--	82.77	75.90
GC-AP-MW-41H	86.57	--	--	--	--	--	--	--	74.09	--	82.94	76.10
GC-AP-MW-42H	87.56	--	--	--	--	--	--	--	81.15	--	84.01	83.03
GC-AP-MW-43H	91.76	--	--	--	--	--	--	--	85.86	--	87.17	85.86
GC-AP-MW-44H	101.13	--	--	--	--	--	--	--	93.79	97.19	97.30	96.63
GC-AP-MW-45H	95.14	--	--	--	--	--	--	--	--	89.46	82.62	75.87
GC-AP-MW-46HO	93.35	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-47HO	93.86	--	--	--	--	--	--	--	--	--	--	80.54
GC-AP-MW-48H	90.11	--	--	--	--	--	--	--	--	--	86.55	84.11
GC-AP-MW-49H	91.71	--	--	--	--	--	--	--	--	89.22	85.33	84.08
GC-AP-MW-50HO	88.92	--	--	--	--	--	--	--	--	--	--	81.98
GC-AP-MW-52HO	91.77	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-53H	102.31	--	--	--	--	--	--	--	--	97.40	97.04	96.29
GC-AP-MW-54H	102.94	--	--	--	--	--	--	--	--	97.71	97.48	96.31
GC-AP-MW-55H0	114.37	--	--	--	--	--	--	--	--	--	--	84.31
GC-AP-MW-57H	100.43	--	--	--	--	--	--	--	--	96.97	97.08	96.02
GC-AP-MW-59HO	101.69	--	--	--	--	--	--	--	--	--	--	93.61
GC-AP-MW-60HO	108.47	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-61HO	109.69	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-62HO	89.89	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-63HO	91.08	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-64HO	95.65	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix D.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)					
		6/30/2020	8/10/2020	3/8/2021	6/28/2021	8/16/2021	3/22/2022
GC-AP-MW-1	107.79	90.85	91.15	89.44	90.35	90.01	88.95
GC-AP-MW-2	106.14	97.40	94.66	92.74	93.33	92.69	92.32
GC-AP-MW-3	106.39	97.13	94.16	92.78	93.43	92.80	92.39
GC-AP-PZ-4	103.53	92.55	91.74	91.58	92.25	91.37	90.83
GC-AP-MW-5	108.43	96.27	93.68	94.31	94.24	93.04	93.40
GC-AP-MW-6	102.05	95.41	90.37	91.63	91.16	90.31	90.84
GC-AP-MW-7	98.56	87.77	86.56	87.95	87.54	86.54	86.65
GC-AP-MW-8	97.11	86.47	85.64	86.61	86.14	85.13	85.03
GC-AP-MW-9	93.19	84.98	83.71	85.01	84.51	83.43	83.98
GC-AP-MW-10	87.84	81.90	80.62	82.54	82.04	80.78	81.93
GC-AP-MW-11	101.18	82.94	82.13	83.43	83.33	82.01	83.02
GC-AP-MW-12	103.26	81.05	81.21	82.96	81.85	81.26	81.54
GC-AP-MW-13	101.18	Dry	76.97	80.98	80.67	77.67	80.64
GC-AP-MW-14	85.61	76.55	75.28	78.61	79.30	76.57	81.33
GC-AP-MW-15	91.69	75.26	74.10	77.17	77.25	75.49	80.10
GC-AP-MW-16	108.79	75.74	74.59	77.49	77.62	75.77	80.22
GC-AP-MW-17	106.40	76.77	75.54	77.95	77.99	76.91	80.61
GC-AP-MW-18	105.04	75.48	75.08	77.58	77.48	76.56	80.46
GC-AP-PZ-19	104.91	104.91	75.22	77.76	77.82	76.10	80.60
GC-AP-MW-21	105.72	81.66	81.08	83.27	82.16	81.56	81.96
GC-AP-PZ-22	104.64	Dry	88.92	Dry	Dry	88.66	Dry
GC-AP-MW-23	102.64	89.51	89.04	88.44	89.16	88.66	87.78
GC-AP-MW-24	106.05	89.09	88.65	87.73	88.47	88.14	87.10
GC-AP-MW-25	104.98	97.12	96.38	92.08	92.81	91.67	91.18
GC-AP-MW-26	89.25	82.09	80.80	83.78	83.16	82.59	84.21
GC-AP-MW-27	90.68	81.91	80.57	83.09	82.86	82.25	83.43
GC-AP-MW-28	89.36	80.75	79.54	81.71	81.80	80.77	82.38
GC-AP-MW-29	89.32	81.95	80.77	83.29	82.91	82.18	83.72
GC-AP-MW-30	89.87	81.14	80.14	82.11	82.08	81.20	82.67
GC-AP-MW-31	94.19	86.02	84.56	87.86	87.11	85.59	87.38
GC-AP-MW-32	105.85	89.41	89.27	88.67	89.41	86.09	88.53
GC-AP-MW-33	108.99	89.93	89.40	89.07	89.80	92.12	88.55

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

**Appendix D.
Historic Groundwater Elevations Summary**

Well Name	Top of Casing Elevation	Groundwater Elevation (ft.)					
		6/30/2020	8/10/2020	3/8/2021	6/28/2021	8/16/2021	3/22/2022
GC-AP-MW-34HA	108.38	87.92	87.41	85.89	87.03	86.63	85.76
GC-AP-MW-35H	102.64	Dry	80.70	81.10	82.05	80.68	82.13
GC-AP-MW-36H	105.17	79.08	78.81	80.82	80.74	79.12	81.71
GC-AP-MW-37H	106.04	79.32	77.07	80.28	82.63	80.96	83.38
GC-AP-MW-38H	106.58	87.60	86.84	87.14	87.39	86.79	86.98
GC-AP-MW-39H	109.89	75.43	74.29	77.02	77.11	75.56	80.02
GC-AP-MW-40H	87.53	75.17	74.00	77.09	77.16	75.40	80.02
GC-AP-MW-41H	86.57	74.11	73.98	76.61	76.33	75.77	79.84
GC-AP-MW-42H	87.56	82.00	80.78	82.45	82.07	80.92	82.18
GC-AP-MW-43H	91.76	84.60	83.50	84.90	84.37	83.32	83.98
GC-AP-MW-44H	101.13	94.17	92.70	94.32	93.79	92.38	93.94
GC-AP-MW-45H	95.14	75.33	74.32	82.64	77.73	75.53	80.14
GC-AP-MW-46HO	93.35	75.48	74.76	78.16	78.24	75.56	77.96
GC-AP-MW-47HO	93.86	78.71	77.48	78.56	79.22	77.78	77.92
GC-AP-MW-48H	90.11	82.43	81.35	82.32	82.65	81.45	81.50
GC-AP-MW-49H	91.71	82.79	82.08	82.83	83.07	81.95	82.32
GC-AP-MW-50HO	88.92	81.19	80.51	81.50	81.36	80.58	81.56
GC-AP-MW-52HO	91.77	84.71	83.65	85.36	84.90	83.75	84.57
GC-AP-MW-53H	102.31	95.07	93.12	94.25	93.78	92.82	93.70
GC-AP-MW-54H	102.94	95.01	93.20	94.54	93.96	92.75	93.68
GC-AP-MW-55HO	114.37	83.58	83.03	82.76	81.31	82.69	83.45
GC-AP-MW-57H	100.43	92.50	92.91	94.23	93.74	92.63	93.79
GC-AP-MW-59HO	101.69	93.05	92.36	91.87	92.47	91.86	91.36
GC-AP-MW-60HO	108.47	--	--	--	88.31	88.05	86.89
GC-AP-MW-61HO	109.69	--	--	--	91.40	90.93	89.35
GC-AP-MW-62HO	89.89	--	--	--	83.31	81.39	81.77
GC-AP-MW-63HO	91.08	--	--	--	83.33	81.74	81.49
GC-AP-MW-64HO	95.65	--	--	--	78.44	76.10	80.43

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

Appendix C

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

Field Case Narrative



Greene County Ash Pond

2022 Compliance Event 1

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

Rainy conditions were present when pumping and sampling well MW-39H.

Suspected iron bacteria was present during initial pumping of wells MW-1, MW-44H, MW-41H and MW-45H.

A significant number of ants were inside the locking well cap lid of wells MW-53H, MW-31, MW-34HA and MW-42H

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
 - Field Blank (FB) 2, FB-3 and FB-4 all had results greater than the reporting limit (RL) for Manganese.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-27	Conductivity	3/28/2022 13:57	34.13	uS/cm
GC-AP-MW-27	DO	3/28/2022 13:57	6.87	mg/L
GC-AP-MW-27	Depth to Water Detail	3/28/2022 13:57	6.38	ft
GC-AP-MW-27	Oxidation Reduction Potential	3/28/2022 13:57	232.1	mv
GC-AP-MW-27	pH	3/28/2022 13:57	4.58	SU
GC-AP-MW-27	Temperature	3/28/2022 13:57	18.6	C
GC-AP-MW-27	Turbidity	3/28/2022 13:57	0.82	NTU
GC-AP-MW-27	Conductivity	3/28/2022 14:02	33.83	uS/cm
GC-AP-MW-27	DO	3/28/2022 14:02	6.91	mg/L
GC-AP-MW-27	Depth to Water Detail	3/28/2022 14:02	6.38	ft
GC-AP-MW-27	Oxidation Reduction Potential	3/28/2022 14:02	237.48	mv
GC-AP-MW-27	pH	3/28/2022 14:02	4.65	SU
GC-AP-MW-27	Temperature	3/28/2022 14:02	18.65	C
GC-AP-MW-27	Turbidity	3/28/2022 14:02	0.69	NTU
GC-AP-MW-27	Conductivity	3/28/2022 14:07	33.64	uS/cm
GC-AP-MW-27	DO	3/28/2022 14:07	6.92	mg/L
GC-AP-MW-27	Depth to Water Detail	3/28/2022 14:07	6.38	ft
GC-AP-MW-27	Oxidation Reduction Potential	3/28/2022 14:07	240.79	mv
GC-AP-MW-27	pH	3/28/2022 14:07	4.7	SU
GC-AP-MW-27	Temperature	3/28/2022 14:07	18.66	C
GC-AP-MW-27	Turbidity	3/28/2022 14:07	0.65	NTU
GC-AP-MW-27	Conductivity	3/28/2022 14:12	33.75	uS/cm
GC-AP-MW-27	DO	3/28/2022 14:12	6.88	mg/L
GC-AP-MW-27	Depth to Water Detail	3/28/2022 14:12	6.38	ft
GC-AP-MW-27	Oxidation Reduction Potential	3/28/2022 14:12	241.1	mv
GC-AP-MW-27	pH	3/28/2022 14:12	4.73	SU
GC-AP-MW-27	Sulfide	3/28/2022 14:12	0	mg/L
GC-AP-MW-27	Temperature	3/28/2022 14:12	18.72	C
GC-AP-MW-27	Turbidity	3/28/2022 14:12	0.78	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-28	Conductivity	3/28/2022 14:45	45.15	uS/cm
GC-AP-MW-28	DO	3/28/2022 14:45	7.99	mg/L
GC-AP-MW-28	Depth to Water Detail	3/28/2022 14:45	5.3	ft
GC-AP-MW-28	Oxidation Reduction Potential	3/28/2022 14:45	238.96	mv
GC-AP-MW-28	pH	3/28/2022 14:45	4.45	SU
GC-AP-MW-28	Temperature	3/28/2022 14:45	18.08	C
GC-AP-MW-28	Turbidity	3/28/2022 14:45	0.81	NTU
GC-AP-MW-28	Conductivity	3/28/2022 14:50	45.01	uS/cm
GC-AP-MW-28	DO	3/28/2022 14:50	7.93	mg/L
GC-AP-MW-28	Depth to Water Detail	3/28/2022 14:50	5.3	ft
GC-AP-MW-28	Oxidation Reduction Potential	3/28/2022 14:50	241.28	mv
GC-AP-MW-28	pH	3/28/2022 14:50	4.51	SU
GC-AP-MW-28	Temperature	3/28/2022 14:50	18.12	C
GC-AP-MW-28	Turbidity	3/28/2022 14:50	0.61	NTU
GC-AP-MW-28	Conductivity	3/28/2022 14:55	45.3	uS/cm
GC-AP-MW-28	DO	3/28/2022 14:55	7.77	mg/L
GC-AP-MW-28	Depth to Water Detail	3/28/2022 14:55	5.3	ft
GC-AP-MW-28	Oxidation Reduction Potential	3/28/2022 14:55	240.74	mv
GC-AP-MW-28	pH	3/28/2022 14:55	4.6	SU
GC-AP-MW-28	Temperature	3/28/2022 14:55	18.25	C
GC-AP-MW-28	Turbidity	3/28/2022 14:55	0.59	NTU
GC-AP-MW-28	Conductivity	3/28/2022 15:00	44.28	uS/cm
GC-AP-MW-28	DO	3/28/2022 15:00	7.7	mg/L
GC-AP-MW-28	Depth to Water Detail	3/28/2022 15:00	5.3	ft
GC-AP-MW-28	Oxidation Reduction Potential	3/28/2022 15:00	235.31	mv
GC-AP-MW-28	pH	3/28/2022 15:00	4.69	SU
GC-AP-MW-28	Sulfide	3/28/2022 15:00	0	mg/L
GC-AP-MW-28	Temperature	3/28/2022 15:00	18.26	C
GC-AP-MW-28	Turbidity	3/28/2022 15:00	0.59	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-29	Conductivity	3/28/2022 11:12	11.54	uS/cm
GC-AP-MW-29	DO	3/28/2022 11:12	9.16	mg/L
GC-AP-MW-29	Depth to Water Detail	3/28/2022 11:12	4.55	ft
GC-AP-MW-29	Oxidation Reduction Potention	3/28/2022 11:12	226.23	mv
GC-AP-MW-29	pH	3/28/2022 11:12	3.73	SU
GC-AP-MW-29	Temperature	3/28/2022 11:12	17.33	C
GC-AP-MW-29	Turbidity	3/28/2022 11:12	2.49	NTU
GC-AP-MW-29	Conductivity	3/28/2022 11:17	11.31	uS/cm
GC-AP-MW-29	DO	3/28/2022 11:17	9.1	mg/L
GC-AP-MW-29	Depth to Water Detail	3/28/2022 11:17	4.55	ft
GC-AP-MW-29	Oxidation Reduction Potention	3/28/2022 11:17	218.49	mv
GC-AP-MW-29	pH	3/28/2022 11:17	3.82	SU
GC-AP-MW-29	Temperature	3/28/2022 11:17	17.31	C
GC-AP-MW-29	Turbidity	3/28/2022 11:17	1.98	NTU
GC-AP-MW-29	Conductivity	3/28/2022 11:22	13.91	uS/cm
GC-AP-MW-29	DO	3/28/2022 11:22	9.12	mg/L
GC-AP-MW-29	Depth to Water Detail	3/28/2022 11:22	4.55	ft
GC-AP-MW-29	Oxidation Reduction Potention	3/28/2022 11:22	223.29	mv
GC-AP-MW-29	pH	3/28/2022 11:22	4	SU
GC-AP-MW-29	Temperature	3/28/2022 11:22	17.45	C
GC-AP-MW-29	Turbidity	3/28/2022 11:22	2.3	NTU
GC-AP-MW-29	Conductivity	3/28/2022 11:27	13.83	uS/cm
GC-AP-MW-29	DO	3/28/2022 11:27	9.11	mg/L
GC-AP-MW-29	Depth to Water Detail	3/28/2022 11:27	4.55	ft
GC-AP-MW-29	Oxidation Reduction Potention	3/28/2022 11:27	204.96	mv
GC-AP-MW-29	pH	3/28/2022 11:27	4.27	SU
GC-AP-MW-29	Temperature	3/28/2022 11:27	17.46	C
GC-AP-MW-29	Turbidity	3/28/2022 11:27	1.66	NTU
GC-AP-MW-29	Conductivity	3/28/2022 11:32	13.28	uS/cm
GC-AP-MW-29	DO	3/28/2022 11:32	9.15	mg/L
GC-AP-MW-29	Depth to Water Detail	3/28/2022 11:32	4.55	ft
GC-AP-MW-29	Oxidation Reduction Potention	3/28/2022 11:32	196.55	mv
GC-AP-MW-29	pH	3/28/2022 11:32	4.44	SU
GC-AP-MW-29	Temperature	3/28/2022 11:32	17.45	C
GC-AP-MW-29	Turbidity	3/28/2022 11:32	1.37	NTU
GC-AP-MW-29	Conductivity	3/28/2022 11:37	12.69	uS/cm
GC-AP-MW-29	DO	3/28/2022 11:37	9.15	mg/L
GC-AP-MW-29	Depth to Water Detail	3/28/2022 11:37	4.55	ft
GC-AP-MW-29	Oxidation Reduction Potention	3/28/2022 11:37	203.97	mv
GC-AP-MW-29	pH	3/28/2022 11:37	4.57	SU
GC-AP-MW-29	Temperature	3/28/2022 11:37	17.54	C
GC-AP-MW-29	Turbidity	3/28/2022 11:37	1.26	NTU
GC-AP-MW-29	Conductivity	3/28/2022 11:42	12.55	uS/cm
GC-AP-MW-29	DO	3/28/2022 11:42	9.13	mg/L
GC-AP-MW-29	Depth to Water Detail	3/28/2022 11:42	4.55	ft
GC-AP-MW-29	Oxidation Reduction Potention	3/28/2022 11:42	194.66	mv
GC-AP-MW-29	pH	3/28/2022 11:42	4.64	SU
GC-AP-MW-29	Temperature	3/28/2022 11:42	17.59	C
GC-AP-MW-29	Turbidity	3/28/2022 11:42	1.12	NTU
GC-AP-MW-29	Conductivity	3/28/2022 11:47	12.5	uS/cm
GC-AP-MW-29	DO	3/28/2022 11:47	9.13	mg/L

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-29	Depth to Water Detail	3/28/2022 11:47	4.55	ft
GC-AP-MW-29	Oxidation Reduction Potention	3/28/2022 11:47	203.25	mv
GC-AP-MW-29	pH	3/28/2022 11:47	4.67	SU
GC-AP-MW-29	Sulfide	3/28/2022 11:47	0	mg/L
GC-AP-MW-29	Temperature	3/28/2022 11:47	17.65	C
GC-AP-MW-29	Turbidity	3/28/2022 11:47	1.34	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-30	Conductivity	3/28/2022 12:46	24.99	uS/cm
GC-AP-MW-30	DO	3/28/2022 12:46	4.54	mg/L
GC-AP-MW-30	Depth to Water Detail	3/28/2022 12:46	6.06	ft
GC-AP-MW-30	Oxidation Reduction Potention	3/28/2022 12:46	223.81	mv
GC-AP-MW-30	pH	3/28/2022 12:46	4.27	SU
GC-AP-MW-30	Temperature	3/28/2022 12:46	17.72	C
GC-AP-MW-30	Turbidity	3/28/2022 12:46	2.86	NTU
GC-AP-MW-30	Conductivity	3/28/2022 12:51	24.8	uS/cm
GC-AP-MW-30	DO	3/28/2022 12:51	4.38	mg/L
GC-AP-MW-30	Depth to Water Detail	3/28/2022 12:51	6.06	ft
GC-AP-MW-30	Oxidation Reduction Potention	3/28/2022 12:51	240.38	mv
GC-AP-MW-30	pH	3/28/2022 12:51	4.2	SU
GC-AP-MW-30	Temperature	3/28/2022 12:51	17.67	C
GC-AP-MW-30	Turbidity	3/28/2022 12:51	1.62	NTU
GC-AP-MW-30	Conductivity	3/28/2022 12:56	28.83	uS/cm
GC-AP-MW-30	DO	3/28/2022 12:56	4.35	mg/L
GC-AP-MW-30	Depth to Water Detail	3/28/2022 12:56	6.06	ft
GC-AP-MW-30	Oxidation Reduction Potention	3/28/2022 12:56	238.08	mv
GC-AP-MW-30	pH	3/28/2022 12:56	4.41	SU
GC-AP-MW-30	Temperature	3/28/2022 12:56	17.71	C
GC-AP-MW-30	Turbidity	3/28/2022 12:56	0.9	NTU
GC-AP-MW-30	Conductivity	3/28/2022 13:01	28.82	uS/cm
GC-AP-MW-30	DO	3/28/2022 13:01	4.33	mg/L
GC-AP-MW-30	Depth to Water Detail	3/28/2022 13:01	6.06	ft
GC-AP-MW-30	Oxidation Reduction Potention	3/28/2022 13:01	236.28	mv
GC-AP-MW-30	pH	3/28/2022 13:01	4.54	SU
GC-AP-MW-30	Temperature	3/28/2022 13:01	17.72	C
GC-AP-MW-30	Turbidity	3/28/2022 13:01	0.7	NTU
GC-AP-MW-30	Conductivity	3/28/2022 13:06	28.33	uS/cm
GC-AP-MW-30	DO	3/28/2022 13:06	4.37	mg/L
GC-AP-MW-30	Depth to Water Detail	3/28/2022 13:06	6.06	ft
GC-AP-MW-30	Oxidation Reduction Potention	3/28/2022 13:06	232.99	mv
GC-AP-MW-30	pH	3/28/2022 13:06	4.72	SU
GC-AP-MW-30	Temperature	3/28/2022 13:06	17.76	C
GC-AP-MW-30	Turbidity	3/28/2022 13:06	0.73	NTU
GC-AP-MW-30	Conductivity	3/28/2022 13:11	26.69	uS/cm
GC-AP-MW-30	DO	3/28/2022 13:11	4.38	mg/L
GC-AP-MW-30	Depth to Water Detail	3/28/2022 13:11	6.06	ft
GC-AP-MW-30	Oxidation Reduction Potention	3/28/2022 13:11	233.71	mv
GC-AP-MW-30	pH	3/28/2022 13:11	4.78	SU
GC-AP-MW-30	Temperature	3/28/2022 13:11	17.8	C
GC-AP-MW-30	Turbidity	3/28/2022 13:11	0.96	NTU
GC-AP-MW-30	Conductivity	3/28/2022 13:16	26.73	uS/cm
GC-AP-MW-30	DO	3/28/2022 13:16	4.37	mg/L
GC-AP-MW-30	Depth to Water Detail	3/28/2022 13:16	6.06	ft
GC-AP-MW-30	Oxidation Reduction Potention	3/28/2022 13:16	232.52	mv
GC-AP-MW-30	pH	3/28/2022 13:16	4.85	SU
GC-AP-MW-30	Temperature	3/28/2022 13:16	17.8	C
GC-AP-MW-30	Turbidity	3/28/2022 13:16	0.68	NTU
GC-AP-MW-30	Conductivity	3/28/2022 13:21	26.46	uS/cm
GC-AP-MW-30	DO	3/28/2022 13:21	4.36	mg/L

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-30	Depth to Water Detail	3/28/2022 13:21	6.06	ft
GC-AP-MW-30	Oxidation Reduction Potention	3/28/2022 13:21	226.73	mv
GC-AP-MW-30	pH	3/28/2022 13:21	4.93	SU
GC-AP-MW-30	Sulfide	3/28/2022 13:21	0	mg/L
GC-AP-MW-30	Temperature	3/28/2022 13:21	17.81	C
GC-AP-MW-30	Turbidity	3/28/2022 13:21	0.61	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-23	Conductivity	3/28/2022 15:51	155.59	uS/cm
GC-AP-MW-23	DO	3/28/2022 15:51	5.83	mg/L
GC-AP-MW-23	Depth to Water Detail	3/28/2022 15:51	15.18	ft
GC-AP-MW-23	Oxidation Reduction Potention	3/28/2022 15:51	178.98	mv
GC-AP-MW-23	pH	3/28/2022 15:51	5.74	SU
GC-AP-MW-23	Temperature	3/28/2022 15:51	17.7	C
GC-AP-MW-23	Turbidity	3/28/2022 15:51	3.98	NTU
GC-AP-MW-23	Conductivity	3/28/2022 15:56	151.67	uS/cm
GC-AP-MW-23	DO	3/28/2022 15:56	5.82	mg/L
GC-AP-MW-23	Depth to Water Detail	3/28/2022 15:56	15.18	ft
GC-AP-MW-23	Oxidation Reduction Potention	3/28/2022 15:56	176.53	mv
GC-AP-MW-23	pH	3/28/2022 15:56	5.75	SU
GC-AP-MW-23	Temperature	3/28/2022 15:56	17.78	C
GC-AP-MW-23	Turbidity	3/28/2022 15:56	2.57	NTU
GC-AP-MW-23	Conductivity	3/28/2022 16:01	148.61	uS/cm
GC-AP-MW-23	DO	3/28/2022 16:01	5.84	mg/L
GC-AP-MW-23	Depth to Water Detail	3/28/2022 16:01	15.18	ft
GC-AP-MW-23	Oxidation Reduction Potention	3/28/2022 16:01	170.56	mv
GC-AP-MW-23	pH	3/28/2022 16:01	5.84	SU
GC-AP-MW-23	Temperature	3/28/2022 16:01	17.84	C
GC-AP-MW-23	Turbidity	3/28/2022 16:01	1.97	NTU
GC-AP-MW-23	Conductivity	3/28/2022 16:06	147.33	uS/cm
GC-AP-MW-23	DO	3/28/2022 16:06	5.87	mg/L
GC-AP-MW-23	Depth to Water Detail	3/28/2022 16:06	15.18	ft
GC-AP-MW-23	Oxidation Reduction Potention	3/28/2022 16:06	160.89	mv
GC-AP-MW-23	pH	3/28/2022 16:06	5.98	SU
GC-AP-MW-23	Temperature	3/28/2022 16:06	17.77	C
GC-AP-MW-23	Turbidity	3/28/2022 16:06	1.51	NTU
GC-AP-MW-23	Conductivity	3/28/2022 16:11	146.35	uS/cm
GC-AP-MW-23	DO	3/28/2022 16:11	5.89	mg/L
GC-AP-MW-23	Depth to Water Detail	3/28/2022 16:11	15.18	ft
GC-AP-MW-23	Oxidation Reduction Potention	3/28/2022 16:11	156.45	mv
GC-AP-MW-23	pH	3/28/2022 16:11	6.05	SU
GC-AP-MW-23	Temperature	3/28/2022 16:11	17.71	C
GC-AP-MW-23	Turbidity	3/28/2022 16:11	1.29	NTU
GC-AP-MW-23	Conductivity	3/28/2022 16:16	144.72	uS/cm
GC-AP-MW-23	DO	3/28/2022 16:16	5.9	mg/L
GC-AP-MW-23	Depth to Water Detail	3/28/2022 16:16	15.18	ft
GC-AP-MW-23	Oxidation Reduction Potention	3/28/2022 16:16	154.79	mv
GC-AP-MW-23	pH	3/28/2022 16:16	6.08	SU
GC-AP-MW-23	Sulfide	3/28/2022 16:16	0	mg/L
GC-AP-MW-23	Temperature	3/28/2022 16:16	17.73	C
GC-AP-MW-23	Turbidity	3/28/2022 16:16	1.04	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-37H	Conductivity	3/29/2022 8:39	882.46	uS/cm
GC-AP-MW-37H	DO	3/29/2022 8:39	0.97	mg/L
GC-AP-MW-37H	Depth to Water Detail	3/29/2022 8:39	23.2	ft
GC-AP-MW-37H	Oxidation Reduction Potention	3/29/2022 8:39	-88.35	mv
GC-AP-MW-37H	pH	3/29/2022 8:39	6.31	SU
GC-AP-MW-37H	Temperature	3/29/2022 8:39	19.44	C
GC-AP-MW-37H	Turbidity	3/29/2022 8:39	5.48	NTU
GC-AP-MW-37H	Conductivity	3/29/2022 8:44	881.31	uS/cm
GC-AP-MW-37H	DO	3/29/2022 8:44	0.82	mg/L
GC-AP-MW-37H	Depth to Water Detail	3/29/2022 8:44	23.5	ft
GC-AP-MW-37H	Oxidation Reduction Potention	3/29/2022 8:44	-82.02	mv
GC-AP-MW-37H	pH	3/29/2022 8:44	6.34	SU
GC-AP-MW-37H	Temperature	3/29/2022 8:44	19.45	C
GC-AP-MW-37H	Turbidity	3/29/2022 8:44	4.27	NTU
GC-AP-MW-37H	Conductivity	3/29/2022 8:49	849.64	uS/cm
GC-AP-MW-37H	DO	3/29/2022 8:49	0.78	mg/L
GC-AP-MW-37H	Depth to Water Detail	3/29/2022 8:49	23.79	ft
GC-AP-MW-37H	Oxidation Reduction Potention	3/29/2022 8:49	-74.07	mv
GC-AP-MW-37H	pH	3/29/2022 8:49	6.34	SU
GC-AP-MW-37H	Temperature	3/29/2022 8:49	19.45	C
GC-AP-MW-37H	Turbidity	3/29/2022 8:49	4.39	NTU
GC-AP-MW-37H	Conductivity	3/29/2022 8:54	849.56	uS/cm
GC-AP-MW-37H	DO	3/29/2022 8:54	0.72	mg/L
GC-AP-MW-37H	Depth to Water Detail	3/29/2022 8:54	23.94	ft
GC-AP-MW-37H	Oxidation Reduction Potention	3/29/2022 8:54	-67.37	mv
GC-AP-MW-37H	pH	3/29/2022 8:54	6.36	SU
GC-AP-MW-37H	Temperature	3/29/2022 8:54	19.82	C
GC-AP-MW-37H	Turbidity	3/29/2022 8:54	2.63	NTU
GC-AP-MW-37H	Conductivity	3/29/2022 8:59	848.26	uS/cm
GC-AP-MW-37H	DO	3/29/2022 8:59	0.74	mg/L
GC-AP-MW-37H	Depth to Water Detail	3/29/2022 8:59	24.08	ft
GC-AP-MW-37H	Oxidation Reduction Potention	3/29/2022 8:59	-60.66	mv
GC-AP-MW-37H	pH	3/29/2022 8:59	6.36	SU
GC-AP-MW-37H	Temperature	3/29/2022 8:59	19.75	C
GC-AP-MW-37H	Turbidity	3/29/2022 8:59	2.75	NTU
GC-AP-MW-37H	Conductivity	3/29/2022 9:04	846.53	uS/cm
GC-AP-MW-37H	DO	3/29/2022 9:04	0.71	mg/L
GC-AP-MW-37H	Depth to Water Detail	3/29/2022 9:04	24.15	ft
GC-AP-MW-37H	Oxidation Reduction Potention	3/29/2022 9:04	-64.32	mv
GC-AP-MW-37H	pH	3/29/2022 9:04	6.36	SU
GC-AP-MW-37H	Sulfide	3/29/2022 9:04	0	mg/L
GC-AP-MW-37H	Temperature	3/29/2022 9:04	19.77	C
GC-AP-MW-37H	Turbidity	3/29/2022 9:04	2.74	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-34HA	Conductivity	3/28/2022 15:17	138.9	uS/cm
GC-AP-MW-34HA	DO	3/28/2022 15:17	2.25	mg/L
GC-AP-MW-34HA	Depth to Water Detail	3/28/2022 15:17	22.71	ft
GC-AP-MW-34HA	Oxidation Reduction Potention	3/28/2022 15:17	192.41	mv
GC-AP-MW-34HA	pH	3/28/2022 15:17	4.42	SU
GC-AP-MW-34HA	Temperature	3/28/2022 15:17	21.01	C
GC-AP-MW-34HA	Turbidity	3/28/2022 15:17	8.15	NTU
GC-AP-MW-34HA	Conductivity	3/28/2022 15:22	140.3	uS/cm
GC-AP-MW-34HA	DO	3/28/2022 15:22	2.1	mg/L
GC-AP-MW-34HA	Depth to Water Detail	3/28/2022 15:22	22.71	ft
GC-AP-MW-34HA	Oxidation Reduction Potention	3/28/2022 15:22	191.55	mv
GC-AP-MW-34HA	pH	3/28/2022 15:22	4.43	SU
GC-AP-MW-34HA	Temperature	3/28/2022 15:22	20.95	C
GC-AP-MW-34HA	Turbidity	3/28/2022 15:22	2.36	NTU
GC-AP-MW-34HA	Conductivity	3/28/2022 15:27	139.74	uS/cm
GC-AP-MW-34HA	DO	3/28/2022 15:27	2.12	mg/L
GC-AP-MW-34HA	Depth to Water Detail	3/28/2022 15:27	22.71	ft
GC-AP-MW-34HA	Oxidation Reduction Potention	3/28/2022 15:27	191.44	mv
GC-AP-MW-34HA	pH	3/28/2022 15:27	4.44	SU
GC-AP-MW-34HA	Temperature	3/28/2022 15:27	21	C
GC-AP-MW-34HA	Turbidity	3/28/2022 15:27	2.56	NTU
GC-AP-MW-34HA	Conductivity	3/28/2022 15:32	139.06	uS/cm
GC-AP-MW-34HA	DO	3/28/2022 15:32	2.14	mg/L
GC-AP-MW-34HA	Depth to Water Detail	3/28/2022 15:32	22.71	ft
GC-AP-MW-34HA	Oxidation Reduction Potention	3/28/2022 15:32	190.27	mv
GC-AP-MW-34HA	pH	3/28/2022 15:32	4.44	SU
GC-AP-MW-34HA	Sulfide	3/28/2022 15:32	0	mg/L
GC-AP-MW-34HA	Temperature	3/28/2022 15:32	20.96	C
GC-AP-MW-34HA	Turbidity	3/28/2022 15:32	1.92	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-2	Conductivity	3/28/2022 16:13	1123.89	uS/cm
GC-AP-MW-2	DO	3/28/2022 16:13	1.07	mg/L
GC-AP-MW-2	Depth to Water Detail	3/28/2022 16:13	14.51	ft
GC-AP-MW-2	Oxidation Reduction Potention	3/28/2022 16:13	116.7	mv
GC-AP-MW-2	pH	3/28/2022 16:13	5.18	SU
GC-AP-MW-2	Temperature	3/28/2022 16:13	19.29	C
GC-AP-MW-2	Turbidity	3/28/2022 16:13	20.7	NTU
GC-AP-MW-2	Conductivity	3/28/2022 16:18	1136.39	uS/cm
GC-AP-MW-2	DO	3/28/2022 16:18	1.02	mg/L
GC-AP-MW-2	Depth to Water Detail	3/28/2022 16:18	14.51	ft
GC-AP-MW-2	Oxidation Reduction Potention	3/28/2022 16:18	102.73	mv
GC-AP-MW-2	pH	3/28/2022 16:18	5.26	SU
GC-AP-MW-2	Temperature	3/28/2022 16:18	19.59	C
GC-AP-MW-2	Turbidity	3/28/2022 16:18	5.64	NTU
GC-AP-MW-2	Conductivity	3/28/2022 16:23	1134.22	uS/cm
GC-AP-MW-2	DO	3/28/2022 16:23	0.98	mg/L
GC-AP-MW-2	Depth to Water Detail	3/28/2022 16:23	14.51	ft
GC-AP-MW-2	Oxidation Reduction Potention	3/28/2022 16:23	92.63	mv
GC-AP-MW-2	pH	3/28/2022 16:23	5.29	SU
GC-AP-MW-2	Temperature	3/28/2022 16:23	19.62	C
GC-AP-MW-2	Turbidity	3/28/2022 16:23	3.02	NTU
GC-AP-MW-2	Conductivity	3/28/2022 16:28	1136.48	uS/cm
GC-AP-MW-2	DO	3/28/2022 16:28	0.93	mg/L
GC-AP-MW-2	Depth to Water Detail	3/28/2022 16:28	14.51	ft
GC-AP-MW-2	Oxidation Reduction Potention	3/28/2022 16:28	86.36	mv
GC-AP-MW-2	pH	3/28/2022 16:28	5.32	SU
GC-AP-MW-2	Sulfide	3/28/2022 16:28	0	mg/L
GC-AP-MW-2	Temperature	3/28/2022 16:28	19.67	C
GC-AP-MW-2	Turbidity	3/28/2022 16:28	2.91	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-6	Conductivity	3/29/2022 13:13	964.12	uS/cm
GC-AP-MW-6	DO	3/29/2022 13:13	2.62	mg/L
GC-AP-MW-6	Depth to Water Detail	3/29/2022 13:13	11.43	ft
GC-AP-MW-6	Oxidation Reduction Potention	3/29/2022 13:13	136.13	mv
GC-AP-MW-6	pH	3/29/2022 13:13	5.66	SU
GC-AP-MW-6	Temperature	3/29/2022 13:13	20.15	C
GC-AP-MW-6	Turbidity	3/29/2022 13:13	1	NTU
GC-AP-MW-6	Conductivity	3/29/2022 13:18	1087.94	uS/cm
GC-AP-MW-6	DO	3/29/2022 13:18	1.43	mg/L
GC-AP-MW-6	Depth to Water Detail	3/29/2022 13:18	11.43	ft
GC-AP-MW-6	Oxidation Reduction Potention	3/29/2022 13:18	137.73	mv
GC-AP-MW-6	pH	3/29/2022 13:18	5.7	SU
GC-AP-MW-6	Temperature	3/29/2022 13:18	20.33	C
GC-AP-MW-6	Turbidity	3/29/2022 13:18	0.75	NTU
GC-AP-MW-6	Conductivity	3/29/2022 13:23	1131.08	uS/cm
GC-AP-MW-6	DO	3/29/2022 13:23	1.16	mg/L
GC-AP-MW-6	Depth to Water Detail	3/29/2022 13:23	11.43	ft
GC-AP-MW-6	Oxidation Reduction Potention	3/29/2022 13:23	133.99	mv
GC-AP-MW-6	pH	3/29/2022 13:23	5.77	SU
GC-AP-MW-6	Temperature	3/29/2022 13:23	20.37	C
GC-AP-MW-6	Turbidity	3/29/2022 13:23	0.71	NTU
GC-AP-MW-6	Conductivity	3/29/2022 13:28	1151.1	uS/cm
GC-AP-MW-6	DO	3/29/2022 13:28	1.09	mg/L
GC-AP-MW-6	Depth to Water Detail	3/29/2022 13:28	11.43	ft
GC-AP-MW-6	Oxidation Reduction Potention	3/29/2022 13:28	126.97	mv
GC-AP-MW-6	pH	3/29/2022 13:28	5.86	SU
GC-AP-MW-6	Temperature	3/29/2022 13:28	20.32	C
GC-AP-MW-6	Turbidity	3/29/2022 13:28	0.69	NTU
GC-AP-MW-6	Conductivity	3/29/2022 13:33	1164.2	uS/cm
GC-AP-MW-6	DO	3/29/2022 13:33	0.95	mg/L
GC-AP-MW-6	Depth to Water Detail	3/29/2022 13:33	11.43	ft
GC-AP-MW-6	Oxidation Reduction Potention	3/29/2022 13:33	114.96	mv
GC-AP-MW-6	pH	3/29/2022 13:33	5.93	SU
GC-AP-MW-6	Temperature	3/29/2022 13:33	20.36	C
GC-AP-MW-6	Turbidity	3/29/2022 13:33	0.84	NTU
GC-AP-MW-6	Conductivity	3/29/2022 13:38	1178.54	uS/cm
GC-AP-MW-6	DO	3/29/2022 13:38	0.87	mg/L
GC-AP-MW-6	Depth to Water Detail	3/29/2022 13:38	11.43	ft
GC-AP-MW-6	Oxidation Reduction Potention	3/29/2022 13:38	106.45	mv
GC-AP-MW-6	pH	3/29/2022 13:38	5.97	SU
GC-AP-MW-6	Temperature	3/29/2022 13:38	20.4	C
GC-AP-MW-6	Turbidity	3/29/2022 13:38	0.91	NTU
GC-AP-MW-6	Conductivity	3/29/2022 13:43	1178.36	uS/cm
GC-AP-MW-6	DO	3/29/2022 13:43	0.92	mg/L
GC-AP-MW-6	Depth to Water Detail	3/29/2022 13:43	11.43	ft
GC-AP-MW-6	Oxidation Reduction Potention	3/29/2022 13:43	101.76	mv
GC-AP-MW-6	pH	3/29/2022 13:43	5.99	SU
GC-AP-MW-6	Sulfide	3/29/2022 13:43	0	mg/L
GC-AP-MW-6	Temperature	3/29/2022 13:43	20.48	C
GC-AP-MW-6	Turbidity	3/29/2022 13:43	1.15	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-7	Conductivity	3/29/2022 8:30	1397.11	uS/cm
GC-AP-MW-7	DO	3/29/2022 8:30	1.36	mg/L
GC-AP-MW-7	Depth to Water Detail	3/29/2022 8:30	12.06	ft
GC-AP-MW-7	Oxidation Reduction Potention	3/29/2022 8:30	111.17	mv
GC-AP-MW-7	pH	3/29/2022 8:30	6.65	SU
GC-AP-MW-7	Temperature	3/29/2022 8:30	18.85	C
GC-AP-MW-7	Turbidity	3/29/2022 8:30	0.64	NTU
GC-AP-MW-7	Conductivity	3/29/2022 8:35	1398	uS/cm
GC-AP-MW-7	DO	3/29/2022 8:35	1.14	mg/L
GC-AP-MW-7	Depth to Water Detail	3/29/2022 8:35	12.06	ft
GC-AP-MW-7	Oxidation Reduction Potention	3/29/2022 8:35	107.89	mv
GC-AP-MW-7	pH	3/29/2022 8:35	6.64	SU
GC-AP-MW-7	Temperature	3/29/2022 8:35	18.8	C
GC-AP-MW-7	Turbidity	3/29/2022 8:35	0.77	NTU
GC-AP-MW-7	Conductivity	3/29/2022 8:40	1399.29	uS/cm
GC-AP-MW-7	DO	3/29/2022 8:40	1.02	mg/L
GC-AP-MW-7	Depth to Water Detail	3/29/2022 8:40	12.06	ft
GC-AP-MW-7	Oxidation Reduction Potention	3/29/2022 8:40	106.36	mv
GC-AP-MW-7	pH	3/29/2022 8:40	6.63	SU
GC-AP-MW-7	Temperature	3/29/2022 8:40	18.77	C
GC-AP-MW-7	Turbidity	3/29/2022 8:40	0.87	NTU
GC-AP-MW-7	Conductivity	3/29/2022 8:45	1399.3	uS/cm
GC-AP-MW-7	DO	3/29/2022 8:45	0.95	mg/L
GC-AP-MW-7	Depth to Water Detail	3/29/2022 8:45	12.06	ft
GC-AP-MW-7	Oxidation Reduction Potention	3/29/2022 8:45	104.42	mv
GC-AP-MW-7	pH	3/29/2022 8:45	6.62	SU
GC-AP-MW-7	Sulfide	3/29/2022 8:45	0	mg/L
GC-AP-MW-7	Temperature	3/29/2022 8:45	18.93	C
GC-AP-MW-7	Turbidity	3/29/2022 8:45	0.71	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-8	Conductivity	3/29/2022 9:25	1235.8	uS/cm
GC-AP-MW-8	DO	3/29/2022 9:25	0.97	mg/L
GC-AP-MW-8	Depth to Water Detail	3/29/2022 9:25	12.09	ft
GC-AP-MW-8	Oxidation Reduction Potention	3/29/2022 9:25	122.53	mv
GC-AP-MW-8	pH	3/29/2022 9:25	6.05	SU
GC-AP-MW-8	Temperature	3/29/2022 9:25	19.56	C
GC-AP-MW-8	Turbidity	3/29/2022 9:25	1.22	NTU
GC-AP-MW-8	Conductivity	3/29/2022 9:30	1220.82	uS/cm
GC-AP-MW-8	DO	3/29/2022 9:30	0.8	mg/L
GC-AP-MW-8	Depth to Water Detail	3/29/2022 9:30	12.09	ft
GC-AP-MW-8	Oxidation Reduction Potention	3/29/2022 9:30	118.55	mv
GC-AP-MW-8	pH	3/29/2022 9:30	6.09	SU
GC-AP-MW-8	Temperature	3/29/2022 9:30	19.7	C
GC-AP-MW-8	Turbidity	3/29/2022 9:30	0.97	NTU
GC-AP-MW-8	Conductivity	3/29/2022 9:35	1214.94	uS/cm
GC-AP-MW-8	DO	3/29/2022 9:35	0.74	mg/L
GC-AP-MW-8	Depth to Water Detail	3/29/2022 9:35	12.09	ft
GC-AP-MW-8	Oxidation Reduction Potention	3/29/2022 9:35	112.38	mv
GC-AP-MW-8	pH	3/29/2022 9:35	6.15	SU
GC-AP-MW-8	Temperature	3/29/2022 9:35	19.66	C
GC-AP-MW-8	Turbidity	3/29/2022 9:35	1.26	NTU
GC-AP-MW-8	Conductivity	3/29/2022 9:40	1211.2	uS/cm
GC-AP-MW-8	DO	3/29/2022 9:40	0.71	mg/L
GC-AP-MW-8	Depth to Water Detail	3/29/2022 9:40	12.09	ft
GC-AP-MW-8	Oxidation Reduction Potention	3/29/2022 9:40	101.3	mv
GC-AP-MW-8	pH	3/29/2022 9:40	6.21	SU
GC-AP-MW-8	Sulfide	3/29/2022 9:40	0	mg/L
GC-AP-MW-8	Temperature	3/29/2022 9:40	19.67	C
GC-AP-MW-8	Turbidity	3/29/2022 9:40	1.12	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-9	Conductivity	3/29/2022 10:38	1520.92	uS/cm
GC-AP-MW-9	DO	3/29/2022 10:38	1.12	mg/L
GC-AP-MW-9	Depth to Water Detail	3/29/2022 10:38	9.05	ft
GC-AP-MW-9	Oxidation Reduction Potention	3/29/2022 10:38	105.77	mv
GC-AP-MW-9	pH	3/29/2022 10:38	5.48	SU
GC-AP-MW-9	Temperature	3/29/2022 10:38	19.61	C
GC-AP-MW-9	Turbidity	3/29/2022 10:38	0.46	NTU
GC-AP-MW-9	Conductivity	3/29/2022 10:43	1492.63	uS/cm
GC-AP-MW-9	DO	3/29/2022 10:43	0.96	mg/L
GC-AP-MW-9	Depth to Water Detail	3/29/2022 10:43	9.05	ft
GC-AP-MW-9	Oxidation Reduction Potention	3/29/2022 10:43	101.24	mv
GC-AP-MW-9	pH	3/29/2022 10:43	5.52	SU
GC-AP-MW-9	Temperature	3/29/2022 10:43	19.5	C
GC-AP-MW-9	Turbidity	3/29/2022 10:43	0.61	NTU
GC-AP-MW-9	Conductivity	3/29/2022 10:48	1460.45	uS/cm
GC-AP-MW-9	DO	3/29/2022 10:48	0.87	mg/L
GC-AP-MW-9	Depth to Water Detail	3/29/2022 10:48	9.05	ft
GC-AP-MW-9	Oxidation Reduction Potention	3/29/2022 10:48	96.56	mv
GC-AP-MW-9	pH	3/29/2022 10:48	5.58	SU
GC-AP-MW-9	Temperature	3/29/2022 10:48	19.57	C
GC-AP-MW-9	Turbidity	3/29/2022 10:48	0.66	NTU
GC-AP-MW-9	Conductivity	3/29/2022 10:53	1442.55	uS/cm
GC-AP-MW-9	DO	3/29/2022 10:53	0.82	mg/L
GC-AP-MW-9	Depth to Water Detail	3/29/2022 10:53	9.05	ft
GC-AP-MW-9	Oxidation Reduction Potention	3/29/2022 10:53	93.15	mv
GC-AP-MW-9	pH	3/29/2022 10:53	5.61	SU
GC-AP-MW-9	Sulfide	3/29/2022 10:53	0	mg/L
GC-AP-MW-9	Temperature	3/29/2022 10:53	19.59	C
GC-AP-MW-9	Turbidity	3/29/2022 10:53	0.62	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-11	Conductivity	3/30/2022 8:35	456.55	uS/cm
GC-AP-MW-11	DO	3/30/2022 8:35	1.24	mg/L
GC-AP-MW-11	Depth to Water Detail	3/30/2022 8:35	17.42	ft
GC-AP-MW-11	Oxidation Reduction Potention	3/30/2022 8:35	55.39	mv
GC-AP-MW-11	pH	3/30/2022 8:35	6.02	SU
GC-AP-MW-11	Temperature	3/30/2022 8:35	19.53	C
GC-AP-MW-11	Turbidity	3/30/2022 8:35	0.68	NTU
GC-AP-MW-11	Conductivity	3/30/2022 8:40	458.03	uS/cm
GC-AP-MW-11	DO	3/30/2022 8:40	1.07	mg/L
GC-AP-MW-11	Depth to Water Detail	3/30/2022 8:40	17.42	ft
GC-AP-MW-11	Oxidation Reduction Potention	3/30/2022 8:40	59.5	mv
GC-AP-MW-11	pH	3/30/2022 8:40	6.01	SU
GC-AP-MW-11	Temperature	3/30/2022 8:40	19.58	C
GC-AP-MW-11	Turbidity	3/30/2022 8:40	0.53	NTU
GC-AP-MW-11	Conductivity	3/30/2022 8:45	460.58	uS/cm
GC-AP-MW-11	DO	3/30/2022 8:45	0.98	mg/L
GC-AP-MW-11	Depth to Water Detail	3/30/2022 8:45	17.42	ft
GC-AP-MW-11	Oxidation Reduction Potention	3/30/2022 8:45	60.61	mv
GC-AP-MW-11	pH	3/30/2022 8:45	6.02	SU
GC-AP-MW-11	Temperature	3/30/2022 8:45	19.57	C
GC-AP-MW-11	Turbidity	3/30/2022 8:45	0.57	NTU
GC-AP-MW-11	Conductivity	3/30/2022 8:50	462.47	uS/cm
GC-AP-MW-11	DO	3/30/2022 8:50	0.95	mg/L
GC-AP-MW-11	Depth to Water Detail	3/30/2022 8:50	17.42	ft
GC-AP-MW-11	Oxidation Reduction Potention	3/30/2022 8:50	58.23	mv
GC-AP-MW-11	pH	3/30/2022 8:50	6.02	SU
GC-AP-MW-11	Sulfide	3/30/2022 8:50	0	mg/L
GC-AP-MW-11	Temperature	3/30/2022 8:50	19.61	C
GC-AP-MW-11	Turbidity	3/30/2022 8:50	0.42	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-12	Conductivity	3/29/2022 15:37	474.36	uS/cm
GC-AP-MW-12	DO	3/29/2022 15:37	1.52	mg/L
GC-AP-MW-12	Depth to Water Detail	3/29/2022 15:37	21.12	ft
GC-AP-MW-12	Oxidation Reduction Potential	3/29/2022 15:37	129.85	mv
GC-AP-MW-12	pH	3/29/2022 15:37	6.31	SU
GC-AP-MW-12	Temperature	3/29/2022 15:37	19.89	C
GC-AP-MW-12	Turbidity	3/29/2022 15:37	0.62	NTU
GC-AP-MW-12	Conductivity	3/29/2022 15:42	475.59	uS/cm
GC-AP-MW-12	DO	3/29/2022 15:42	1.4	mg/L
GC-AP-MW-12	Depth to Water Detail	3/29/2022 15:42	21.12	ft
GC-AP-MW-12	Oxidation Reduction Potential	3/29/2022 15:42	125.91	mv
GC-AP-MW-12	pH	3/29/2022 15:42	6.4	SU
GC-AP-MW-12	Temperature	3/29/2022 15:42	19.86	C
GC-AP-MW-12	Turbidity	3/29/2022 15:42	0.56	NTU
GC-AP-MW-12	Conductivity	3/29/2022 15:47	474.83	uS/cm
GC-AP-MW-12	DO	3/29/2022 15:47	1.34	mg/L
GC-AP-MW-12	Depth to Water Detail	3/29/2022 15:47	21.12	ft
GC-AP-MW-12	Oxidation Reduction Potential	3/29/2022 15:47	125.95	mv
GC-AP-MW-12	pH	3/29/2022 15:47	6.41	SU
GC-AP-MW-12	Temperature	3/29/2022 15:47	19.83	C
GC-AP-MW-12	Turbidity	3/29/2022 15:47	0.71	NTU
GC-AP-MW-12	Conductivity	3/29/2022 15:52	474.4	uS/cm
GC-AP-MW-12	DO	3/29/2022 15:52	1.27	mg/L
GC-AP-MW-12	Depth to Water Detail	3/29/2022 15:52	21.12	ft
GC-AP-MW-12	Oxidation Reduction Potential	3/29/2022 15:52	125.13	mv
GC-AP-MW-12	pH	3/29/2022 15:52	6.43	SU
GC-AP-MW-12	Temperature	3/29/2022 15:52	19.81	C
GC-AP-MW-12	Turbidity	3/29/2022 15:52	0.39	NTU
GC-AP-MW-12	Conductivity	3/29/2022 15:57	474.84	uS/cm
GC-AP-MW-12	DO	3/29/2022 15:57	1.2	mg/L
GC-AP-MW-12	Depth to Water Detail	3/29/2022 15:57	21.12	ft
GC-AP-MW-12	Oxidation Reduction Potential	3/29/2022 15:57	123.61	mv
GC-AP-MW-12	pH	3/29/2022 15:57	6.44	SU
GC-AP-MW-12	Sulfide	3/29/2022 15:57	0	mg/L
GC-AP-MW-12	Temperature	3/29/2022 15:57	19.81	C
GC-AP-MW-12	Turbidity	3/29/2022 15:57	0.69	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-21	Conductivity	3/30/2022 9:42	520.37	uS/cm
GC-AP-MW-21	DO	3/30/2022 9:42	0.43	mg/L
GC-AP-MW-21	Depth to Water Detail	3/30/2022 9:42	23.14	ft
GC-AP-MW-21	Oxidation Reduction Potention	3/30/2022 9:42	85.18	mv
GC-AP-MW-21	pH	3/30/2022 9:42	5.89	SU
GC-AP-MW-21	Temperature	3/30/2022 9:42	21.05	C
GC-AP-MW-21	Turbidity	3/30/2022 9:42	1.15	NTU
GC-AP-MW-21	Conductivity	3/30/2022 9:47	524.72	uS/cm
GC-AP-MW-21	DO	3/30/2022 9:47	0.05	mg/L
GC-AP-MW-21	Depth to Water Detail	3/30/2022 9:47	23.14	ft
GC-AP-MW-21	Oxidation Reduction Potention	3/30/2022 9:47	82.17	mv
GC-AP-MW-21	pH	3/30/2022 9:47	5.99	SU
GC-AP-MW-21	Temperature	3/30/2022 9:47	21	C
GC-AP-MW-21	Turbidity	3/30/2022 9:47	0.82	NTU
GC-AP-MW-21	Conductivity	3/30/2022 9:52	527.42	uS/cm
GC-AP-MW-21	DO	3/30/2022 9:52	0.02	mg/L
GC-AP-MW-21	Depth to Water Detail	3/30/2022 9:52	23.14	ft
GC-AP-MW-21	Oxidation Reduction Potention	3/30/2022 9:52	79.94	mv
GC-AP-MW-21	pH	3/30/2022 9:52	6.07	SU
GC-AP-MW-21	Temperature	3/30/2022 9:52	21.05	C
GC-AP-MW-21	Turbidity	3/30/2022 9:52	0.62	NTU
GC-AP-MW-21	Conductivity	3/30/2022 9:57	527.48	uS/cm
GC-AP-MW-21	DO	3/30/2022 9:57	0.03	mg/L
GC-AP-MW-21	Depth to Water Detail	3/30/2022 9:57	23.14	ft
GC-AP-MW-21	Oxidation Reduction Potention	3/30/2022 9:57	79.82	mv
GC-AP-MW-21	pH	3/30/2022 9:57	6.09	SU
GC-AP-MW-21	Sulfide	3/30/2022 9:57	0	mg/L
GC-AP-MW-21	Temperature	3/30/2022 9:57	21.1	C
GC-AP-MW-21	Turbidity	3/30/2022 9:57	0.33	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-25	Conductivity	3/29/2022 11:48	459.63	uS/cm
GC-AP-MW-25	DO	3/29/2022 11:48	1.01	mg/L
GC-AP-MW-25	Depth to Water Detail	3/29/2022 11:48	15.4	ft
GC-AP-MW-25	Oxidation Reduction Potential	3/29/2022 11:48	114.43	mv
GC-AP-MW-25	pH	3/29/2022 11:48	5.29	SU
GC-AP-MW-25	Temperature	3/29/2022 11:48	20.36	C
GC-AP-MW-25	Turbidity	3/29/2022 11:48	7.06	NTU
GC-AP-MW-25	Conductivity	3/29/2022 11:53	441.37	uS/cm
GC-AP-MW-25	DO	3/29/2022 11:53	0.87	mg/L
GC-AP-MW-25	Depth to Water Detail	3/29/2022 11:53	15.4	ft
GC-AP-MW-25	Oxidation Reduction Potential	3/29/2022 11:53	118.42	mv
GC-AP-MW-25	pH	3/29/2022 11:53	5.27	SU
GC-AP-MW-25	Temperature	3/29/2022 11:53	20.47	C
GC-AP-MW-25	Turbidity	3/29/2022 11:53	5.39	NTU
GC-AP-MW-25	Conductivity	3/29/2022 11:58	412.29	uS/cm
GC-AP-MW-25	DO	3/29/2022 11:58	0.8	mg/L
GC-AP-MW-25	Depth to Water Detail	3/29/2022 11:58	15.4	ft
GC-AP-MW-25	Oxidation Reduction Potential	3/29/2022 11:58	123.51	mv
GC-AP-MW-25	pH	3/29/2022 11:58	5.2	SU
GC-AP-MW-25	Temperature	3/29/2022 11:58	20.46	C
GC-AP-MW-25	Turbidity	3/29/2022 11:58	3.63	NTU
GC-AP-MW-25	Conductivity	3/29/2022 12:03	403.74	uS/cm
GC-AP-MW-25	DO	3/29/2022 12:03	0.78	mg/L
GC-AP-MW-25	Depth to Water Detail	3/29/2022 12:03	15.4	ft
GC-AP-MW-25	Oxidation Reduction Potential	3/29/2022 12:03	125.63	mv
GC-AP-MW-25	pH	3/29/2022 12:03	5.2	SU
GC-AP-MW-25	Temperature	3/29/2022 12:03	20.55	C
GC-AP-MW-25	Turbidity	3/29/2022 12:03	3.23	NTU
GC-AP-MW-25	Conductivity	3/29/2022 12:08	387.1	uS/cm
GC-AP-MW-25	DO	3/29/2022 12:08	0.83	mg/L
GC-AP-MW-25	Depth to Water Detail	3/29/2022 12:08	15.4	ft
GC-AP-MW-25	Oxidation Reduction Potential	3/29/2022 12:08	126.83	mv
GC-AP-MW-25	pH	3/29/2022 12:08	5.19	SU
GC-AP-MW-25	Temperature	3/29/2022 12:08	20.5	C
GC-AP-MW-25	Turbidity	3/29/2022 12:08	2.98	NTU
GC-AP-MW-25	Conductivity	3/29/2022 12:13	398.3	uS/cm
GC-AP-MW-25	DO	3/29/2022 12:13	0.97	mg/L
GC-AP-MW-25	Depth to Water Detail	3/29/2022 12:13	15.4	ft
GC-AP-MW-25	Oxidation Reduction Potential	3/29/2022 12:13	124.93	mv
GC-AP-MW-25	pH	3/29/2022 12:13	5.26	SU
GC-AP-MW-25	Sulfide	3/29/2022 12:13	0	mg/L
GC-AP-MW-25	Temperature	3/29/2022 12:13	20.56	C
GC-AP-MW-25	Turbidity	3/29/2022 12:13	2.92	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-31	Conductivity	3/28/2022 12:13	67.52	uS/cm
GC-AP-MW-31	DO	3/28/2022 12:13	3.71	mg/L
GC-AP-MW-31	Depth to Water Detail	3/28/2022 12:13	5.73	ft
GC-AP-MW-31	Oxidation Reduction Potential	3/28/2022 12:13	115.25	mv
GC-AP-MW-31	pH	3/28/2022 12:13	5.3	SU
GC-AP-MW-31	Temperature	3/28/2022 12:13	17.09	C
GC-AP-MW-31	Turbidity	3/28/2022 12:13	14.8	NTU
GC-AP-MW-31	Conductivity	3/28/2022 12:18	67.49	uS/cm
GC-AP-MW-31	DO	3/28/2022 12:18	3.55	mg/L
GC-AP-MW-31	Depth to Water Detail	3/28/2022 12:18	5.73	ft
GC-AP-MW-31	Oxidation Reduction Potential	3/28/2022 12:18	121.21	mv
GC-AP-MW-31	pH	3/28/2022 12:18	5.2	SU
GC-AP-MW-31	Temperature	3/28/2022 12:18	17.17	C
GC-AP-MW-31	Turbidity	3/28/2022 12:18	11.3	NTU
GC-AP-MW-31	Conductivity	3/28/2022 12:23	66.08	uS/cm
GC-AP-MW-31	DO	3/28/2022 12:23	3.51	mg/L
GC-AP-MW-31	Depth to Water Detail	3/28/2022 12:23	5.73	ft
GC-AP-MW-31	Oxidation Reduction Potential	3/28/2022 12:23	132.27	mv
GC-AP-MW-31	pH	3/28/2022 12:23	5.04	SU
GC-AP-MW-31	Temperature	3/28/2022 12:23	17.13	C
GC-AP-MW-31	Turbidity	3/28/2022 12:23	8.06	NTU
GC-AP-MW-31	Conductivity	3/28/2022 12:28	66.43	uS/cm
GC-AP-MW-31	DO	3/28/2022 12:28	3.5	mg/L
GC-AP-MW-31	Depth to Water Detail	3/28/2022 12:28	5.73	ft
GC-AP-MW-31	Oxidation Reduction Potential	3/28/2022 12:28	136.06	mv
GC-AP-MW-31	pH	3/28/2022 12:28	5.05	SU
GC-AP-MW-31	Sulfide	3/28/2022 12:28	0	mg/L
GC-AP-MW-31	Temperature	3/28/2022 12:28	17.18	C
GC-AP-MW-31	Turbidity	3/28/2022 12:28	3.36	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-32	Conductivity	3/28/2022 14:06	66.99	uS/cm
GC-AP-MW-32	DO	3/28/2022 14:06	4.58	mg/L
GC-AP-MW-32	Depth to Water Detail	3/28/2022 14:06	17.25	ft
GC-AP-MW-32	Oxidation Reduction Potention	3/28/2022 14:06	181.65	mv
GC-AP-MW-32	pH	3/28/2022 14:06	4.8	SU
GC-AP-MW-32	Temperature	3/28/2022 14:06	20.02	C
GC-AP-MW-32	Turbidity	3/28/2022 14:06	0.62	NTU
GC-AP-MW-32	Conductivity	3/28/2022 14:11	71.22	uS/cm
GC-AP-MW-32	DO	3/28/2022 14:11	4.41	mg/L
GC-AP-MW-32	Depth to Water Detail	3/28/2022 14:11	17.25	ft
GC-AP-MW-32	Oxidation Reduction Potention	3/28/2022 14:11	178.82	mv
GC-AP-MW-32	pH	3/28/2022 14:11	4.91	SU
GC-AP-MW-32	Temperature	3/28/2022 14:11	20.04	C
GC-AP-MW-32	Turbidity	3/28/2022 14:11	0.45	NTU
GC-AP-MW-32	Conductivity	3/28/2022 14:16	72.47	uS/cm
GC-AP-MW-32	DO	3/28/2022 14:16	4.27	mg/L
GC-AP-MW-32	Depth to Water Detail	3/28/2022 14:16	17.25	ft
GC-AP-MW-32	Oxidation Reduction Potention	3/28/2022 14:16	176.99	mv
GC-AP-MW-32	pH	3/28/2022 14:16	4.94	SU
GC-AP-MW-32	Temperature	3/28/2022 14:16	20.03	C
GC-AP-MW-32	Turbidity	3/28/2022 14:16	0.54	NTU
GC-AP-MW-32	Conductivity	3/28/2022 14:21	73.1	uS/cm
GC-AP-MW-32	DO	3/28/2022 14:21	4.28	mg/L
GC-AP-MW-32	Depth to Water Detail	3/28/2022 14:21	17.25	ft
GC-AP-MW-32	Oxidation Reduction Potention	3/28/2022 14:21	175.87	mv
GC-AP-MW-32	pH	3/28/2022 14:21	5.01	SU
GC-AP-MW-32	Sulfide	3/28/2022 14:21	0	mg/L
GC-AP-MW-32	Temperature	3/28/2022 14:21	20.08	C
GC-AP-MW-32	Turbidity	3/28/2022 14:21	0.41	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-33	Conductivity	3/28/2022 13:04	92.43	uS/cm
GC-AP-MW-33	DO	3/28/2022 13:04	5.95	mg/L
GC-AP-MW-33	Depth to Water Detail	3/28/2022 13:04	20.26	ft
GC-AP-MW-33	Oxidation Reduction Potential	3/28/2022 13:04	185.89	mv
GC-AP-MW-33	pH	3/28/2022 13:04	3.91	SU
GC-AP-MW-33	Temperature	3/28/2022 13:04	18.09	C
GC-AP-MW-33	Turbidity	3/28/2022 13:04	0.81	NTU
GC-AP-MW-33	Conductivity	3/28/2022 13:09	89.73	uS/cm
GC-AP-MW-33	DO	3/28/2022 13:09	5.96	mg/L
GC-AP-MW-33	Depth to Water Detail	3/28/2022 13:09	20.26	ft
GC-AP-MW-33	Oxidation Reduction Potential	3/28/2022 13:09	181.13	mv
GC-AP-MW-33	pH	3/28/2022 13:09	4.03	SU
GC-AP-MW-33	Temperature	3/28/2022 13:09	18.15	C
GC-AP-MW-33	Turbidity	3/28/2022 13:09	0.37	NTU
GC-AP-MW-33	Conductivity	3/28/2022 13:14	90.51	uS/cm
GC-AP-MW-33	DO	3/28/2022 13:14	5.96	mg/L
GC-AP-MW-33	Depth to Water Detail	3/28/2022 13:14	20.26	ft
GC-AP-MW-33	Oxidation Reduction Potential	3/28/2022 13:14	174.28	mv
GC-AP-MW-33	pH	3/28/2022 13:14	4.18	SU
GC-AP-MW-33	Temperature	3/28/2022 13:14	18.11	C
GC-AP-MW-33	Turbidity	3/28/2022 13:14	0.32	NTU
GC-AP-MW-33	Conductivity	3/28/2022 13:19	89.08	uS/cm
GC-AP-MW-33	DO	3/28/2022 13:19	5.97	mg/L
GC-AP-MW-33	Depth to Water Detail	3/28/2022 13:19	20.26	ft
GC-AP-MW-33	Oxidation Reduction Potential	3/28/2022 13:19	171.68	mv
GC-AP-MW-33	pH	3/28/2022 13:19	4.26	SU
GC-AP-MW-33	Temperature	3/28/2022 13:19	18.18	C
GC-AP-MW-33	Turbidity	3/28/2022 13:19	0.45	NTU
GC-AP-MW-33	Conductivity	3/28/2022 13:24	91.81	uS/cm
GC-AP-MW-33	DO	3/28/2022 13:24	5.94	mg/L
GC-AP-MW-33	Depth to Water Detail	3/28/2022 13:24	20.26	ft
GC-AP-MW-33	Oxidation Reduction Potential	3/28/2022 13:24	170.7	mv
GC-AP-MW-33	pH	3/28/2022 13:24	4.29	SU
GC-AP-MW-33	Sulfide	3/28/2022 13:24	0	mg/L
GC-AP-MW-33	Temperature	3/28/2022 13:24	18.2	C
GC-AP-MW-33	Turbidity	3/28/2022 13:24	0.23	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-48H	Conductivity	3/30/2022 10:47	108.7	uS/cm
GC-AP-MW-48H	DO	3/30/2022 10:47	0.77	mg/L
GC-AP-MW-48H	Depth to Water Detail	3/30/2022 10:47	7.86	ft
GC-AP-MW-48H	Oxidation Reduction Potention	3/30/2022 10:47	124.14	mv
GC-AP-MW-48H	pH	3/30/2022 10:47	5.15	SU
GC-AP-MW-48H	Temperature	3/30/2022 10:47	17.51	C
GC-AP-MW-48H	Turbidity	3/30/2022 10:47	0.56	NTU
GC-AP-MW-48H	Conductivity	3/30/2022 10:52	112.55	uS/cm
GC-AP-MW-48H	DO	3/30/2022 10:52	0.64	mg/L
GC-AP-MW-48H	Depth to Water Detail	3/30/2022 10:52	7.86	ft
GC-AP-MW-48H	Oxidation Reduction Potention	3/30/2022 10:52	126.32	mv
GC-AP-MW-48H	pH	3/30/2022 10:52	5.15	SU
GC-AP-MW-48H	Temperature	3/30/2022 10:52	17.62	C
GC-AP-MW-48H	Turbidity	3/30/2022 10:52	0.5	NTU
GC-AP-MW-48H	Conductivity	3/30/2022 10:57	118.21	uS/cm
GC-AP-MW-48H	DO	3/30/2022 10:57	0.21	mg/L
GC-AP-MW-48H	Depth to Water Detail	3/30/2022 10:57	7.86	ft
GC-AP-MW-48H	Oxidation Reduction Potention	3/30/2022 10:57	126.76	mv
GC-AP-MW-48H	pH	3/30/2022 10:57	5.2	SU
GC-AP-MW-48H	Temperature	3/30/2022 10:57	17.77	C
GC-AP-MW-48H	Turbidity	3/30/2022 10:57	0.55	NTU
GC-AP-MW-48H	Conductivity	3/30/2022 11:02	124.88	uS/cm
GC-AP-MW-48H	DO	3/30/2022 11:02	0.13	mg/L
GC-AP-MW-48H	Depth to Water Detail	3/30/2022 11:02	7.86	ft
GC-AP-MW-48H	Oxidation Reduction Potention	3/30/2022 11:02	124.83	mv
GC-AP-MW-48H	pH	3/30/2022 11:02	5.24	SU
GC-AP-MW-48H	Temperature	3/30/2022 11:02	17.8	C
GC-AP-MW-48H	Turbidity	3/30/2022 11:02	0.47	NTU
GC-AP-MW-48H	Conductivity	3/30/2022 11:07	128.99	uS/cm
GC-AP-MW-48H	DO	3/30/2022 11:07	0.44	mg/L
GC-AP-MW-48H	Depth to Water Detail	3/30/2022 11:07	7.86	ft
GC-AP-MW-48H	Oxidation Reduction Potention	3/30/2022 11:07	123.25	mv
GC-AP-MW-48H	pH	3/30/2022 11:07	5.29	SU
GC-AP-MW-48H	Temperature	3/30/2022 11:07	17.79	C
GC-AP-MW-48H	Turbidity	3/30/2022 11:07	0.6	NTU
GC-AP-MW-48H	Conductivity	3/30/2022 11:12	132.42	uS/cm
GC-AP-MW-48H	DO	3/30/2022 11:12	0.43	mg/L
GC-AP-MW-48H	Depth to Water Detail	3/30/2022 11:12	7.86	ft
GC-AP-MW-48H	Oxidation Reduction Potention	3/30/2022 11:12	121.5	mv
GC-AP-MW-48H	pH	3/30/2022 11:12	5.35	SU
GC-AP-MW-48H	Temperature	3/30/2022 11:12	17.81	C
GC-AP-MW-48H	Turbidity	3/30/2022 11:12	0.27	NTU
GC-AP-MW-48H	Conductivity	3/30/2022 11:17	134.45	uS/cm
GC-AP-MW-48H	DO	3/30/2022 11:17	0.42	mg/L
GC-AP-MW-48H	Depth to Water Detail	3/30/2022 11:17	7.86	ft
GC-AP-MW-48H	Oxidation Reduction Potention	3/30/2022 11:17	119.38	mv
GC-AP-MW-48H	pH	3/30/2022 11:17	5.4	SU
GC-AP-MW-48H	Sulfide	3/30/2022 11:17	0	mg/L
GC-AP-MW-48H	Temperature	3/30/2022 11:17	17.78	C
GC-AP-MW-48H	Turbidity	3/30/2022 11:17	0.33	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-49H	Conductivity	3/30/2022 11:53	320.94	uS/cm
GC-AP-MW-49H	DO	3/30/2022 11:53	0.15	mg/L
GC-AP-MW-49H	Depth to Water Detail	3/30/2022 11:53	8.41	ft
GC-AP-MW-49H	Oxidation Reduction Potention	3/30/2022 11:53	106.17	mv
GC-AP-MW-49H	pH	3/30/2022 11:53	5.78	SU
GC-AP-MW-49H	Temperature	3/30/2022 11:53	19	C
GC-AP-MW-49H	Turbidity	3/30/2022 11:53	1.61	NTU
GC-AP-MW-49H	Conductivity	3/30/2022 11:58	318.02	uS/cm
GC-AP-MW-49H	DO	3/30/2022 11:58	0.12	mg/L
GC-AP-MW-49H	Depth to Water Detail	3/30/2022 11:58	8.41	ft
GC-AP-MW-49H	Oxidation Reduction Potention	3/30/2022 11:58	106.95	mv
GC-AP-MW-49H	pH	3/30/2022 11:58	5.7	SU
GC-AP-MW-49H	Temperature	3/30/2022 11:58	18.97	C
GC-AP-MW-49H	Turbidity	3/30/2022 11:58	1.34	NTU
GC-AP-MW-49H	Conductivity	3/30/2022 12:03	313.21	uS/cm
GC-AP-MW-49H	DO	3/30/2022 12:03	0.11	mg/L
GC-AP-MW-49H	Depth to Water Detail	3/30/2022 12:03	8.41	ft
GC-AP-MW-49H	Oxidation Reduction Potention	3/30/2022 12:03	106	mv
GC-AP-MW-49H	pH	3/30/2022 12:03	5.69	SU
GC-AP-MW-49H	Temperature	3/30/2022 12:03	18.96	C
GC-AP-MW-49H	Turbidity	3/30/2022 12:03	1.14	NTU
GC-AP-MW-49H	Conductivity	3/30/2022 12:08	313.62	uS/cm
GC-AP-MW-49H	DO	3/30/2022 12:08	0.1	mg/L
GC-AP-MW-49H	Depth to Water Detail	3/30/2022 12:08	8.41	ft
GC-AP-MW-49H	Oxidation Reduction Potention	3/30/2022 12:08	103.85	mv
GC-AP-MW-49H	pH	3/30/2022 12:08	5.72	SU
GC-AP-MW-49H	Sulfide	3/30/2022 12:08	0	mg/L
GC-AP-MW-49H	Temperature	3/30/2022 12:08	18.99	C
GC-AP-MW-49H	Turbidity	3/30/2022 12:08	1.21	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-38H	Conductivity	3/30/2022 10:19	475.5	uS/cm
GC-AP-MW-38H	DO	3/30/2022 10:19	3.3	mg/L
GC-AP-MW-38H	Depth to Water Detail	3/30/2022 10:19	20.14	ft
GC-AP-MW-38H	Oxidation Reduction Potention	3/30/2022 10:19	161.51	mv
GC-AP-MW-38H	pH	3/30/2022 10:19	6.57	SU
GC-AP-MW-38H	Temperature	3/30/2022 10:19	23.52	C
GC-AP-MW-38H	Turbidity	3/30/2022 10:19	2.06	NTU
GC-AP-MW-38H	Conductivity	3/30/2022 10:24	478.74	uS/cm
GC-AP-MW-38H	DO	3/30/2022 10:24	3.01	mg/L
GC-AP-MW-38H	Depth to Water Detail	3/30/2022 10:24	20.19	ft
GC-AP-MW-38H	Oxidation Reduction Potention	3/30/2022 10:24	141.27	mv
GC-AP-MW-38H	pH	3/30/2022 10:24	6.61	SU
GC-AP-MW-38H	Temperature	3/30/2022 10:24	23.35	C
GC-AP-MW-38H	Turbidity	3/30/2022 10:24	1.61	NTU
GC-AP-MW-38H	Conductivity	3/30/2022 10:29	480.22	uS/cm
GC-AP-MW-38H	DO	3/30/2022 10:29	2.99	mg/L
GC-AP-MW-38H	Depth to Water Detail	3/30/2022 10:29	20.24	ft
GC-AP-MW-38H	Oxidation Reduction Potention	3/30/2022 10:29	133.36	mv
GC-AP-MW-38H	pH	3/30/2022 10:29	6.61	SU
GC-AP-MW-38H	Temperature	3/30/2022 10:29	23.35	C
GC-AP-MW-38H	Turbidity	3/30/2022 10:29	1.33	NTU
GC-AP-MW-38H	Conductivity	3/30/2022 10:34	479.43	uS/cm
GC-AP-MW-38H	DO	3/30/2022 10:34	2.99	mg/L
GC-AP-MW-38H	Depth to Water Detail	3/30/2022 10:34	20.3	ft
GC-AP-MW-38H	Oxidation Reduction Potention	3/30/2022 10:34	128.45	mv
GC-AP-MW-38H	pH	3/30/2022 10:34	6.62	SU
GC-AP-MW-38H	Sulfide	3/30/2022 10:34	0	mg/L
GC-AP-MW-38H	Temperature	3/30/2022 10:34	23.34	C
GC-AP-MW-38H	Turbidity	3/30/2022 10:34	0.95	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-40H	Conductivity	3/30/2022 11:34	672.21	uS/cm
GC-AP-MW-40H	DO	3/30/2022 11:34	0.15	mg/L
GC-AP-MW-40H	Depth to Water Detail	3/30/2022 11:34	8.19	ft
GC-AP-MW-40H	Oxidation Reduction Potention	3/30/2022 11:34	110.08	mv
GC-AP-MW-40H	pH	3/30/2022 11:34	5.85	SU
GC-AP-MW-40H	Temperature	3/30/2022 11:34	22.43	C
GC-AP-MW-40H	Turbidity	3/30/2022 11:34	1.37	NTU
GC-AP-MW-40H	Conductivity	3/30/2022 11:39	676.87	uS/cm
GC-AP-MW-40H	DO	3/30/2022 11:39	0.13	mg/L
GC-AP-MW-40H	Depth to Water Detail	3/30/2022 11:39	8.19	ft
GC-AP-MW-40H	Oxidation Reduction Potention	3/30/2022 11:39	119.24	mv
GC-AP-MW-40H	pH	3/30/2022 11:39	5.74	SU
GC-AP-MW-40H	Temperature	3/30/2022 11:39	22.38	C
GC-AP-MW-40H	Turbidity	3/30/2022 11:39	0.99	NTU
GC-AP-MW-40H	Conductivity	3/30/2022 11:44	673.04	uS/cm
GC-AP-MW-40H	DO	3/30/2022 11:44	0.12	mg/L
GC-AP-MW-40H	Depth to Water Detail	3/30/2022 11:44	8.19	ft
GC-AP-MW-40H	Oxidation Reduction Potention	3/30/2022 11:44	122.83	mv
GC-AP-MW-40H	pH	3/30/2022 11:44	5.7	SU
GC-AP-MW-40H	Temperature	3/30/2022 11:44	22.36	C
GC-AP-MW-40H	Turbidity	3/30/2022 11:44	0.87	NTU
GC-AP-MW-40H	Conductivity	3/30/2022 11:49	670.34	uS/cm
GC-AP-MW-40H	DO	3/30/2022 11:49	0.13	mg/L
GC-AP-MW-40H	Depth to Water Detail	3/30/2022 11:49	8.19	ft
GC-AP-MW-40H	Oxidation Reduction Potention	3/30/2022 11:49	124.28	mv
GC-AP-MW-40H	pH	3/30/2022 11:49	5.69	SU
GC-AP-MW-40H	Sulfide	3/30/2022 11:49	0	mg/L
GC-AP-MW-40H	Temperature	3/30/2022 11:49	22.37	C
GC-AP-MW-40H	Turbidity	3/30/2022 11:49	0.3	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-45H	Conductivity	3/29/2022 13:33	868.27	uS/cm
GC-AP-MW-45H	DO	3/29/2022 13:33	0.31	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 13:33	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 13:33	-29.43	mv
GC-AP-MW-45H	pH	3/29/2022 13:33	6.79	SU
GC-AP-MW-45H	Temperature	3/29/2022 13:33	24.48	C
GC-AP-MW-45H	Turbidity	3/29/2022 13:33	151	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 13:38	862.73	uS/cm
GC-AP-MW-45H	DO	3/29/2022 13:38	0.29	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 13:38	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 13:38	-25.66	mv
GC-AP-MW-45H	pH	3/29/2022 13:38	6.81	SU
GC-AP-MW-45H	Temperature	3/29/2022 13:38	24.55	C
GC-AP-MW-45H	Turbidity	3/29/2022 13:38	50.3	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 13:43	857.09	uS/cm
GC-AP-MW-45H	DO	3/29/2022 13:43	0.28	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 13:43	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 13:43	-24.06	mv
GC-AP-MW-45H	pH	3/29/2022 13:43	6.82	SU
GC-AP-MW-45H	Temperature	3/29/2022 13:43	24.7	C
GC-AP-MW-45H	Turbidity	3/29/2022 13:43	33.5	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 13:48	854.06	uS/cm
GC-AP-MW-45H	DO	3/29/2022 13:48	0.28	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 13:48	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 13:48	-21.98	mv
GC-AP-MW-45H	pH	3/29/2022 13:48	6.79	SU
GC-AP-MW-45H	Temperature	3/29/2022 13:48	24.8	C
GC-AP-MW-45H	Turbidity	3/29/2022 13:48	16.9	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 13:53	850.03	uS/cm
GC-AP-MW-45H	DO	3/29/2022 13:53	0.27	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 13:53	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 13:53	-20.79	mv
GC-AP-MW-45H	pH	3/29/2022 13:53	6.8	SU
GC-AP-MW-45H	Temperature	3/29/2022 13:53	24.75	C
GC-AP-MW-45H	Turbidity	3/29/2022 13:53	11.67	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 13:58	851.41	uS/cm
GC-AP-MW-45H	DO	3/29/2022 13:58	0.27	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 13:58	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 13:58	-21.16	mv
GC-AP-MW-45H	pH	3/29/2022 13:58	6.82	SU
GC-AP-MW-45H	Temperature	3/29/2022 13:58	24.81	C
GC-AP-MW-45H	Turbidity	3/29/2022 13:58	10.34	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 14:03	847.73	uS/cm
GC-AP-MW-45H	DO	3/29/2022 14:03	0.29	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 14:03	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 14:03	-20.59	mv
GC-AP-MW-45H	pH	3/29/2022 14:03	6.83	SU
GC-AP-MW-45H	Temperature	3/29/2022 14:03	24.97	C
GC-AP-MW-45H	Turbidity	3/29/2022 14:03	6.35	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 14:06	848.45	uS/cm
GC-AP-MW-45H	DO	3/29/2022 14:06	0.28	mg/L

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 14:06	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 14:06	-19.51	mv
GC-AP-MW-45H	pH	3/29/2022 14:06	6.82	SU
GC-AP-MW-45H	Temperature	3/29/2022 14:06	24.89	C
GC-AP-MW-45H	Turbidity	3/29/2022 14:06	4.86	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 14:11	846.21	uS/cm
GC-AP-MW-45H	DO	3/29/2022 14:11	0.28	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 14:11	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 14:11	-18.9	mv
GC-AP-MW-45H	pH	3/29/2022 14:11	6.83	SU
GC-AP-MW-45H	Temperature	3/29/2022 14:11	24.91	C
GC-AP-MW-45H	Turbidity	3/29/2022 14:11	6.19	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 14:14	845.01	uS/cm
GC-AP-MW-45H	DO	3/29/2022 14:14	0.28	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 14:14	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 14:14	-20.03	mv
GC-AP-MW-45H	pH	3/29/2022 14:14	6.83	SU
GC-AP-MW-45H	Temperature	3/29/2022 14:14	24.86	C
GC-AP-MW-45H	Turbidity	3/29/2022 14:14	4.98	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 14:19	843.23	uS/cm
GC-AP-MW-45H	DO	3/29/2022 14:19	0.27	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 14:19	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 14:19	-15.84	mv
GC-AP-MW-45H	pH	3/29/2022 14:19	6.78	SU
GC-AP-MW-45H	Temperature	3/29/2022 14:19	24.99	C
GC-AP-MW-45H	Turbidity	3/29/2022 14:19	4.41	NTU
GC-AP-MW-45H	Conductivity	3/29/2022 14:24	841.42	uS/cm
GC-AP-MW-45H	DO	3/29/2022 14:24	0.27	mg/L
GC-AP-MW-45H	Depth to Water Detail	3/29/2022 14:24	13.61	ft
GC-AP-MW-45H	Oxidation Reduction Potention	3/29/2022 14:24	-18.32	mv
GC-AP-MW-45H	pH	3/29/2022 14:24	6.83	SU
GC-AP-MW-45H	Sulfide	3/29/2022 14:24	0	mg/L
GC-AP-MW-45H	Temperature	3/29/2022 14:24	24.72	C
GC-AP-MW-45H	Turbidity	3/29/2022 14:24	3.62	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-36H	Conductivity	3/30/2022 8:25	286.78	uS/cm
GC-AP-MW-36H	DO	3/30/2022 8:25	0.21	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 8:25	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 8:25	155.22	mv
GC-AP-MW-36H	pH	3/30/2022 8:25	7.75	SU
GC-AP-MW-36H	Temperature	3/30/2022 8:25	26.19	C
GC-AP-MW-36H	Turbidity	3/30/2022 8:25	8.39	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 8:30	286.39	uS/cm
GC-AP-MW-36H	DO	3/30/2022 8:30	0.18	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 8:30	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 8:30	139.99	mv
GC-AP-MW-36H	pH	3/30/2022 8:30	7.88	SU
GC-AP-MW-36H	Temperature	3/30/2022 8:30	26.23	C
GC-AP-MW-36H	Turbidity	3/30/2022 8:30	9.49	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 8:35	286.97	uS/cm
GC-AP-MW-36H	DO	3/30/2022 8:35	0.17	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 8:35	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 8:35	124.59	mv
GC-AP-MW-36H	pH	3/30/2022 8:35	7.84	SU
GC-AP-MW-36H	Temperature	3/30/2022 8:35	26.25	C
GC-AP-MW-36H	Turbidity	3/30/2022 8:35	8.9	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 8:40	286.98	uS/cm
GC-AP-MW-36H	DO	3/30/2022 8:40	0.16	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 8:40	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 8:40	106.54	mv
GC-AP-MW-36H	pH	3/30/2022 8:40	8.02	SU
GC-AP-MW-36H	Temperature	3/30/2022 8:40	26.28	C
GC-AP-MW-36H	Turbidity	3/30/2022 8:40	8.65	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 8:45	286.9	uS/cm
GC-AP-MW-36H	DO	3/30/2022 8:45	0.17	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 8:45	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 8:45	101.29	mv
GC-AP-MW-36H	pH	3/30/2022 8:45	7.89	SU
GC-AP-MW-36H	Temperature	3/30/2022 8:45	26.3	C
GC-AP-MW-36H	Turbidity	3/30/2022 8:45	8.17	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 8:50	286.04	uS/cm
GC-AP-MW-36H	DO	3/30/2022 8:50	0.16	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 8:50	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 8:50	95.8	mv
GC-AP-MW-36H	pH	3/30/2022 8:50	7.88	SU
GC-AP-MW-36H	Temperature	3/30/2022 8:50	26.32	C
GC-AP-MW-36H	Turbidity	3/30/2022 8:50	7.82	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 8:55	286.25	uS/cm
GC-AP-MW-36H	DO	3/30/2022 8:55	0.16	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 8:55	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 8:55	90.65	mv
GC-AP-MW-36H	pH	3/30/2022 8:55	7.86	SU
GC-AP-MW-36H	Temperature	3/30/2022 8:55	26.34	C
GC-AP-MW-36H	Turbidity	3/30/2022 8:55	7.07	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 9:00	285.91	uS/cm
GC-AP-MW-36H	DO	3/30/2022 9:00	0.16	mg/L

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 9:00	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 9:00	87.52	mv
GC-AP-MW-36H	pH	3/30/2022 9:00	7.82	SU
GC-AP-MW-36H	Temperature	3/30/2022 9:00	26.38	C
GC-AP-MW-36H	Turbidity	3/30/2022 9:00	6.88	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 9:05	284.53	uS/cm
GC-AP-MW-36H	DO	3/30/2022 9:05	0.18	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 9:05	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 9:05	86.69	mv
GC-AP-MW-36H	pH	3/30/2022 9:05	7.77	SU
GC-AP-MW-36H	Temperature	3/30/2022 9:05	26.41	C
GC-AP-MW-36H	Turbidity	3/30/2022 9:05	6.77	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 9:10	283.84	uS/cm
GC-AP-MW-36H	DO	3/30/2022 9:10	0.17	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 9:10	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 9:10	79.59	mv
GC-AP-MW-36H	pH	3/30/2022 9:10	7.83	SU
GC-AP-MW-36H	Temperature	3/30/2022 9:10	26.44	C
GC-AP-MW-36H	Turbidity	3/30/2022 9:10	7.65	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 9:15	282.56	uS/cm
GC-AP-MW-36H	DO	3/30/2022 9:15	0.17	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 9:15	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 9:15	74.78	mv
GC-AP-MW-36H	pH	3/30/2022 9:15	7.86	SU
GC-AP-MW-36H	Temperature	3/30/2022 9:15	26.48	C
GC-AP-MW-36H	Turbidity	3/30/2022 9:15	6.75	NTU
GC-AP-MW-36H	Conductivity	3/30/2022 9:20	282.76	uS/cm
GC-AP-MW-36H	DO	3/30/2022 9:20	0.18	mg/L
GC-AP-MW-36H	Depth to Water Detail	3/30/2022 9:20	23.19	ft
GC-AP-MW-36H	Oxidation Reduction Potention	3/30/2022 9:20	73.03	mv
GC-AP-MW-36H	pH	3/30/2022 9:20	7.81	SU
GC-AP-MW-36H	Sulfide	3/30/2022 9:20	0	mg/L
GC-AP-MW-36H	Temperature	3/30/2022 9:20	26.48	C
GC-AP-MW-36H	Turbidity	3/30/2022 9:20	6.4	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-15	Conductivity	3/29/2022 15:42	585.91	uS/cm
GC-AP-MW-15	DO	3/29/2022 15:42	0.45	mg/L
GC-AP-MW-15	Depth to Water Detail	3/29/2022 15:42	10.98	ft
GC-AP-MW-15	Oxidation Reduction Potential	3/29/2022 15:42	59.47	mv
GC-AP-MW-15	pH	3/29/2022 15:42	5.78	SU
GC-AP-MW-15	Temperature	3/29/2022 15:42	23.31	C
GC-AP-MW-15	Turbidity	3/29/2022 15:42	0.74	NTU
GC-AP-MW-15	Conductivity	3/29/2022 15:47	589.68	uS/cm
GC-AP-MW-15	DO	3/29/2022 15:47	0.38	mg/L
GC-AP-MW-15	Depth to Water Detail	3/29/2022 15:47	10.98	ft
GC-AP-MW-15	Oxidation Reduction Potential	3/29/2022 15:47	59.87	mv
GC-AP-MW-15	pH	3/29/2022 15:47	5.75	SU
GC-AP-MW-15	Temperature	3/29/2022 15:47	23.3	C
GC-AP-MW-15	Turbidity	3/29/2022 15:47	0.79	NTU
GC-AP-MW-15	Conductivity	3/29/2022 15:52	594.15	uS/cm
GC-AP-MW-15	DO	3/29/2022 15:52	0.35	mg/L
GC-AP-MW-15	Depth to Water Detail	3/29/2022 15:52	10.98	ft
GC-AP-MW-15	Oxidation Reduction Potential	3/29/2022 15:52	57.04	mv
GC-AP-MW-15	pH	3/29/2022 15:52	5.77	SU
GC-AP-MW-15	Temperature	3/29/2022 15:52	23.2	C
GC-AP-MW-15	Turbidity	3/29/2022 15:52	0.82	NTU
GC-AP-MW-15	Conductivity	3/29/2022 15:57	595.79	uS/cm
GC-AP-MW-15	DO	3/29/2022 15:57	0.33	mg/L
GC-AP-MW-15	Depth to Water Detail	3/29/2022 15:57	10.98	ft
GC-AP-MW-15	Oxidation Reduction Potential	3/29/2022 15:57	55.92	mv
GC-AP-MW-15	pH	3/29/2022 15:57	5.81	SU
GC-AP-MW-15	Sulfide	3/29/2022 15:57	0	mg/L
GC-AP-MW-15	Temperature	3/29/2022 15:57	23.13	C
GC-AP-MW-15	Turbidity	3/29/2022 15:57	0.97	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-1	Conductivity	4/4/2022 13:56	1433.74	uS/cm
GC-AP-MW-1	DO	4/4/2022 13:56	1.48	mg/L
GC-AP-MW-1	Depth to Water Detail	4/4/2022 13:56	18.6	ft
GC-AP-MW-1	Oxidation Reduction Potention	4/4/2022 13:56	55.14	mv
GC-AP-MW-1	pH	4/4/2022 13:56	5.14	SU
GC-AP-MW-1	Temperature	4/4/2022 13:56	19.97	C
GC-AP-MW-1	Turbidity	4/4/2022 13:56	11.6	NTU
GC-AP-MW-1	Conductivity	4/4/2022 14:01	1450.36	uS/cm
GC-AP-MW-1	DO	4/4/2022 14:01	1.24	mg/L
GC-AP-MW-1	Depth to Water Detail	4/4/2022 14:01	18.6	ft
GC-AP-MW-1	Oxidation Reduction Potention	4/4/2022 14:01	51.96	mv
GC-AP-MW-1	pH	4/4/2022 14:01	5.15	SU
GC-AP-MW-1	Temperature	4/4/2022 14:01	19.92	C
GC-AP-MW-1	Turbidity	4/4/2022 14:01	7.14	NTU
GC-AP-MW-1	Conductivity	4/4/2022 14:06	1459.14	uS/cm
GC-AP-MW-1	DO	4/4/2022 14:06	1.13	mg/L
GC-AP-MW-1	Depth to Water Detail	4/4/2022 14:06	18.6	ft
GC-AP-MW-1	Oxidation Reduction Potention	4/4/2022 14:06	53.58	mv
GC-AP-MW-1	pH	4/4/2022 14:06	5.14	SU
GC-AP-MW-1	Temperature	4/4/2022 14:06	19.95	C
GC-AP-MW-1	Turbidity	4/4/2022 14:06	4.75	NTU
GC-AP-MW-1	Conductivity	4/4/2022 14:11	1465.42	uS/cm
GC-AP-MW-1	DO	4/4/2022 14:11	1.06	mg/L
GC-AP-MW-1	Depth to Water Detail	4/4/2022 14:11	18.6	ft
GC-AP-MW-1	Oxidation Reduction Potention	4/4/2022 14:11	53.31	mv
GC-AP-MW-1	pH	4/4/2022 14:11	5.17	SU
GC-AP-MW-1	Sulfide	4/4/2022 14:11	0	mg/L
GC-AP-MW-1	Temperature	4/4/2022 14:11	20.06	C
GC-AP-MW-1	Turbidity	4/4/2022 14:11	4.22	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-24	Conductivity	4/4/2022 15:12	219.79	uS/cm
GC-AP-MW-24	DO	4/4/2022 15:12	4.41	mg/L
GC-AP-MW-24	Depth to Water Detail	4/4/2022 15:12	18.73	ft
GC-AP-MW-24	Oxidation Reduction Potention	4/4/2022 15:12	135.62	mv
GC-AP-MW-24	pH	4/4/2022 15:12	4.18	SU
GC-AP-MW-24	Temperature	4/4/2022 15:12	19.46	C
GC-AP-MW-24	Turbidity	4/4/2022 15:12	2.76	NTU
GC-AP-MW-24	Conductivity	4/4/2022 15:17	226.1	uS/cm
GC-AP-MW-24	DO	4/4/2022 15:17	4.31	mg/L
GC-AP-MW-24	Depth to Water Detail	4/4/2022 15:17	18.73	ft
GC-AP-MW-24	Oxidation Reduction Potention	4/4/2022 15:17	146.73	mv
GC-AP-MW-24	pH	4/4/2022 15:17	4.28	SU
GC-AP-MW-24	Temperature	4/4/2022 15:17	19.57	C
GC-AP-MW-24	Turbidity	4/4/2022 15:17	2.28	NTU
GC-AP-MW-24	Conductivity	4/4/2022 15:22	230.03	uS/cm
GC-AP-MW-24	DO	4/4/2022 15:22	4.26	mg/L
GC-AP-MW-24	Depth to Water Detail	4/4/2022 15:22	18.73	ft
GC-AP-MW-24	Oxidation Reduction Potention	4/4/2022 15:22	147.84	mv
GC-AP-MW-24	pH	4/4/2022 15:22	4.36	SU
GC-AP-MW-24	Temperature	4/4/2022 15:22	19.44	C
GC-AP-MW-24	Turbidity	4/4/2022 15:22	1.57	NTU
GC-AP-MW-24	Conductivity	4/4/2022 15:27	233.12	uS/cm
GC-AP-MW-24	DO	4/4/2022 15:27	4.18	mg/L
GC-AP-MW-24	Depth to Water Detail	4/4/2022 15:27	18.73	ft
GC-AP-MW-24	Oxidation Reduction Potention	4/4/2022 15:27	152.36	mv
GC-AP-MW-24	pH	4/4/2022 15:27	4.4	SU
GC-AP-MW-24	Sulfide	4/4/2022 15:27	0	mg/L
GC-AP-MW-24	Temperature	4/4/2022 15:27	19.36	C
GC-AP-MW-24	Turbidity	4/4/2022 15:27	1.22	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-26	Conductivity	4/4/2022 12:37	60.86	uS/cm
GC-AP-MW-26	DO	4/4/2022 12:37	2.77	mg/L
GC-AP-MW-26	Depth to Water Detail	4/4/2022 12:37	4.75	ft
GC-AP-MW-26	Oxidation Reduction Potential	4/4/2022 12:37	88.41	mv
GC-AP-MW-26	pH	4/4/2022 12:37	5.49	SU
GC-AP-MW-26	Temperature	4/4/2022 12:37	20.7	C
GC-AP-MW-26	Turbidity	4/4/2022 12:37	1.13	NTU
GC-AP-MW-26	Conductivity	4/4/2022 12:42	60.58	uS/cm
GC-AP-MW-26	DO	4/4/2022 12:42	2.58	mg/L
GC-AP-MW-26	Depth to Water Detail	4/4/2022 12:42	4.75	ft
GC-AP-MW-26	Oxidation Reduction Potential	4/4/2022 12:42	127.58	mv
GC-AP-MW-26	pH	4/4/2022 12:42	5.08	SU
GC-AP-MW-26	Temperature	4/4/2022 12:42	18.3	C
GC-AP-MW-26	Turbidity	4/4/2022 12:42	0.73	NTU
GC-AP-MW-26	Conductivity	4/4/2022 12:47	63.7	uS/cm
GC-AP-MW-26	DO	4/4/2022 12:47	2.46	mg/L
GC-AP-MW-26	Depth to Water Detail	4/4/2022 12:47	4.75	ft
GC-AP-MW-26	Oxidation Reduction Potential	4/4/2022 12:47	137.19	mv
GC-AP-MW-26	pH	4/4/2022 12:47	4.97	SU
GC-AP-MW-26	Temperature	4/4/2022 12:47	18.39	C
GC-AP-MW-26	Turbidity	4/4/2022 12:47	0.68	NTU
GC-AP-MW-26	Conductivity	4/4/2022 12:52	64.26	uS/cm
GC-AP-MW-26	DO	4/4/2022 12:52	2.43	mg/L
GC-AP-MW-26	Depth to Water Detail	4/4/2022 12:52	4.75	ft
GC-AP-MW-26	Oxidation Reduction Potential	4/4/2022 12:52	133.34	mv
GC-AP-MW-26	pH	4/4/2022 12:52	5.15	SU
GC-AP-MW-26	Temperature	4/4/2022 12:52	18.41	C
GC-AP-MW-26	Turbidity	4/4/2022 12:52	0.7	NTU
GC-AP-MW-26	Conductivity	4/4/2022 12:57	63.46	uS/cm
GC-AP-MW-26	DO	4/4/2022 12:57	2.45	mg/L
GC-AP-MW-26	Depth to Water Detail	4/4/2022 12:57	4.75	ft
GC-AP-MW-26	Oxidation Reduction Potential	4/4/2022 12:57	133.05	mv
GC-AP-MW-26	pH	4/4/2022 12:57	5.17	SU
GC-AP-MW-26	Temperature	4/4/2022 12:57	18.39	C
GC-AP-MW-26	Turbidity	4/4/2022 12:57	0.61	NTU
GC-AP-MW-26	Conductivity	4/4/2022 13:02	61.7	uS/cm
GC-AP-MW-26	DO	4/4/2022 13:02	2.51	mg/L
GC-AP-MW-26	Depth to Water Detail	4/4/2022 13:02	4.75	ft
GC-AP-MW-26	Oxidation Reduction Potential	4/4/2022 13:02	129.49	mv
GC-AP-MW-26	pH	4/4/2022 13:02	5.2	SU
GC-AP-MW-26	Sulfide	4/4/2022 13:02	0	mg/L
GC-AP-MW-26	Temperature	4/4/2022 13:02	18.43	C
GC-AP-MW-26	Turbidity	4/4/2022 13:02	1.04	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-44H	Conductivity	4/4/2022 16:30	833.51	uS/cm
GC-AP-MW-44H	DO	4/4/2022 16:30	0.37	mg/L
GC-AP-MW-44H	Depth to Water Detail	4/4/2022 16:30	8.27	ft
GC-AP-MW-44H	Oxidation Reduction Potention	4/4/2022 16:30	101	mv
GC-AP-MW-44H	pH	4/4/2022 16:30	5.42	SU
GC-AP-MW-44H	Temperature	4/4/2022 16:30	17.33	C
GC-AP-MW-44H	Turbidity	4/4/2022 16:30	43.7	NTU
GC-AP-MW-44H	Conductivity	4/4/2022 16:35	849.42	uS/cm
GC-AP-MW-44H	DO	4/4/2022 16:35	0.32	mg/L
GC-AP-MW-44H	Depth to Water Detail	4/4/2022 16:35	8.27	ft
GC-AP-MW-44H	Oxidation Reduction Potention	4/4/2022 16:35	93.95	mv
GC-AP-MW-44H	pH	4/4/2022 16:35	5.46	SU
GC-AP-MW-44H	Temperature	4/4/2022 16:35	17.41	C
GC-AP-MW-44H	Turbidity	4/4/2022 16:35	43.1	NTU
GC-AP-MW-44H	Conductivity	4/4/2022 16:40	858.47	uS/cm
GC-AP-MW-44H	DO	4/4/2022 16:40	0.31	mg/L
GC-AP-MW-44H	Depth to Water Detail	4/4/2022 16:40	8.27	ft
GC-AP-MW-44H	Oxidation Reduction Potention	4/4/2022 16:40	89.33	mv
GC-AP-MW-44H	pH	4/4/2022 16:40	5.5	SU
GC-AP-MW-44H	Temperature	4/4/2022 16:40	17.46	C
GC-AP-MW-44H	Turbidity	4/4/2022 16:40	38.6	NTU
GC-AP-MW-44H	Conductivity	4/4/2022 16:45	869.39	uS/cm
GC-AP-MW-44H	DO	4/4/2022 16:45	0.32	mg/L
GC-AP-MW-44H	Depth to Water Detail	4/4/2022 16:45	8.27	ft
GC-AP-MW-44H	Oxidation Reduction Potention	4/4/2022 16:45	85.62	mv
GC-AP-MW-44H	pH	4/4/2022 16:45	5.53	SU
GC-AP-MW-44H	Temperature	4/4/2022 16:45	17.4	C
GC-AP-MW-44H	Turbidity	4/4/2022 16:45	30.4	NTU
GC-AP-MW-44H	Conductivity	4/4/2022 16:50	871.66	uS/cm
GC-AP-MW-44H	DO	4/4/2022 16:50	0.32	mg/L
GC-AP-MW-44H	Depth to Water Detail	4/4/2022 16:50	8.27	ft
GC-AP-MW-44H	Oxidation Reduction Potention	4/4/2022 16:50	82.74	mv
GC-AP-MW-44H	pH	4/4/2022 16:50	5.55	SU
GC-AP-MW-44H	Temperature	4/4/2022 16:50	17.44	C
GC-AP-MW-44H	Turbidity	4/4/2022 16:50	16.6	NTU
GC-AP-MW-44H	Conductivity	4/4/2022 16:55	868.69	uS/cm
GC-AP-MW-44H	DO	4/4/2022 16:55	0.32	mg/L
GC-AP-MW-44H	Depth to Water Detail	4/4/2022 16:55	8.27	ft
GC-AP-MW-44H	Oxidation Reduction Potention	4/4/2022 16:55	80.16	mv
GC-AP-MW-44H	pH	4/4/2022 16:55	5.55	SU
GC-AP-MW-44H	Temperature	4/4/2022 16:55	17.49	C
GC-AP-MW-44H	Turbidity	4/4/2022 16:55	12.86	NTU
GC-AP-MW-44H	Conductivity	4/4/2022 17:00	871.18	uS/cm
GC-AP-MW-44H	DO	4/4/2022 17:00	0.32	mg/L
GC-AP-MW-44H	Depth to Water Detail	4/4/2022 17:00	8.27	ft
GC-AP-MW-44H	Oxidation Reduction Potention	4/4/2022 17:00	77.14	mv
GC-AP-MW-44H	pH	4/4/2022 17:00	5.55	SU
GC-AP-MW-44H	Temperature	4/4/2022 17:00	17.39	C
GC-AP-MW-44H	Turbidity	4/4/2022 17:00	9.69	NTU
GC-AP-MW-44H	Conductivity	4/4/2022 17:05	869.65	uS/cm
GC-AP-MW-44H	DO	4/4/2022 17:05	0.31	mg/L

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-44H	Depth to Water Detail	4/4/2022 17:05	8.27	ft
GC-AP-MW-44H	Oxidation Reduction Potention	4/4/2022 17:05	75.15	mv
GC-AP-MW-44H	pH	4/4/2022 17:05	5.55	SU
GC-AP-MW-44H	Temperature	4/4/2022 17:05	17.32	C
GC-AP-MW-44H	Turbidity	4/4/2022 17:05	6.61	NTU
GC-AP-MW-44H	Conductivity	4/4/2022 17:10	870.22	uS/cm
GC-AP-MW-44H	DO	4/4/2022 17:10	0.31	mg/L
GC-AP-MW-44H	Depth to Water Detail	4/4/2022 17:10	8.27	ft
GC-AP-MW-44H	Oxidation Reduction Potention	4/4/2022 17:10	73.11	mv
GC-AP-MW-44H	pH	4/4/2022 17:10	5.56	SU
GC-AP-MW-44H	Sulfide	4/4/2022 17:10	0	mg/L
GC-AP-MW-44H	Temperature	4/4/2022 17:10	17.32	C
GC-AP-MW-44H	Turbidity	4/4/2022 17:10	4.89	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-35H	Conductivity	4/6/2022 15:01	147.7	uS/cm
GC-AP-MW-35H	DO	4/6/2022 15:01	7.56	mg/L
GC-AP-MW-35H	Depth to Water Detail	4/6/2022 15:01	20.22	ft
GC-AP-MW-35H	Oxidation Reduction Potention	4/6/2022 15:01	102.21	mv
GC-AP-MW-35H	pH	4/6/2022 15:01	5.13	SU
GC-AP-MW-35H	Temperature	4/6/2022 15:01	19.38	C
GC-AP-MW-35H	Turbidity	4/6/2022 15:01	1.2	NTU
GC-AP-MW-35H	Conductivity	4/6/2022 15:06	149.29	uS/cm
GC-AP-MW-35H	DO	4/6/2022 15:06	7.53	mg/L
GC-AP-MW-35H	Depth to Water Detail	4/6/2022 15:06	20.22	ft
GC-AP-MW-35H	Oxidation Reduction Potention	4/6/2022 15:06	107.99	mv
GC-AP-MW-35H	pH	4/6/2022 15:06	5.15	SU
GC-AP-MW-35H	Temperature	4/6/2022 15:06	19.43	C
GC-AP-MW-35H	Turbidity	4/6/2022 15:06	1.15	NTU
GC-AP-MW-35H	Conductivity	4/6/2022 15:11	148.17	uS/cm
GC-AP-MW-35H	DO	4/6/2022 15:11	7.55	mg/L
GC-AP-MW-35H	Depth to Water Detail	4/6/2022 15:11	20.22	ft
GC-AP-MW-35H	Oxidation Reduction Potention	4/6/2022 15:11	109.58	mv
GC-AP-MW-35H	pH	4/6/2022 15:11	5.17	SU
GC-AP-MW-35H	Temperature	4/6/2022 15:11	19.46	C
GC-AP-MW-35H	Turbidity	4/6/2022 15:11	1.02	NTU
GC-AP-MW-35H	Conductivity	4/6/2022 15:16	150.13	uS/cm
GC-AP-MW-35H	DO	4/6/2022 15:16	7.61	mg/L
GC-AP-MW-35H	Depth to Water Detail	4/6/2022 15:16	20.22	ft
GC-AP-MW-35H	Oxidation Reduction Potention	4/6/2022 15:16	108.5	mv
GC-AP-MW-35H	pH	4/6/2022 15:16	5.24	SU
GC-AP-MW-35H	Sulfide	4/6/2022 15:16	0	mg/L
GC-AP-MW-35H	Temperature	4/6/2022 15:16	19.54	C
GC-AP-MW-35H	Turbidity	4/6/2022 15:16	1.06	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-39H	Conductivity	4/6/2022 9:09	801.01	uS/cm
GC-AP-MW-39H	DO	4/6/2022 9:09	0.67	mg/L
GC-AP-MW-39H	Depth to Water Detail	4/6/2022 9:09	30.06	ft
GC-AP-MW-39H	Oxidation Reduction Potention	4/6/2022 9:09	-28.1	mv
GC-AP-MW-39H	pH	4/6/2022 9:09	6.3	SU
GC-AP-MW-39H	Temperature	4/6/2022 9:09	19.66	C
GC-AP-MW-39H	Turbidity	4/6/2022 9:09	3.82	NTU
GC-AP-MW-39H	Conductivity	4/6/2022 9:14	804.97	uS/cm
GC-AP-MW-39H	DO	4/6/2022 9:14	0.56	mg/L
GC-AP-MW-39H	Depth to Water Detail	4/6/2022 9:14	30.06	ft
GC-AP-MW-39H	Oxidation Reduction Potention	4/6/2022 9:14	-30.75	mv
GC-AP-MW-39H	pH	4/6/2022 9:14	6.3	SU
GC-AP-MW-39H	Temperature	4/6/2022 9:14	19.6	C
GC-AP-MW-39H	Turbidity	4/6/2022 9:14	3.45	NTU
GC-AP-MW-39H	Conductivity	4/6/2022 9:19	804.11	uS/cm
GC-AP-MW-39H	DO	4/6/2022 9:19	0.51	mg/L
GC-AP-MW-39H	Depth to Water Detail	4/6/2022 9:19	30.06	ft
GC-AP-MW-39H	Oxidation Reduction Potention	4/6/2022 9:19	-32.14	mv
GC-AP-MW-39H	pH	4/6/2022 9:19	6.31	SU
GC-AP-MW-39H	Temperature	4/6/2022 9:19	19.59	C
GC-AP-MW-39H	Turbidity	4/6/2022 9:19	2.13	NTU
GC-AP-MW-39H	Conductivity	4/6/2022 9:24	805.88	uS/cm
GC-AP-MW-39H	DO	4/6/2022 9:24	0.49	mg/L
GC-AP-MW-39H	Depth to Water Detail	4/6/2022 9:24	30.06	ft
GC-AP-MW-39H	Oxidation Reduction Potention	4/6/2022 9:24	-33.75	mv
GC-AP-MW-39H	pH	4/6/2022 9:24	6.31	SU
GC-AP-MW-39H	Sulfide	4/6/2022 9:24	0	mg/L
GC-AP-MW-39H	Temperature	4/6/2022 9:24	19.59	C
GC-AP-MW-39H	Turbidity	4/6/2022 9:24	2.32	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-41H	Conductivity	4/6/2022 11:00	715.35	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:00	0.3	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:00	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:00	6	mv
GC-AP-MW-41H	pH	4/6/2022 11:00	5.96	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:00	18.58	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:00	89.8	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:05	693.77	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:05	0.27	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:05	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:05	7.07	mv
GC-AP-MW-41H	pH	4/6/2022 11:05	5.97	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:05	18.53	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:05	61.3	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:10	677.08	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:10	0.26	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:10	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:10	5.93	mv
GC-AP-MW-41H	pH	4/6/2022 11:10	5.98	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:10	18.59	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:10	39.9	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:15	677.69	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:15	0.26	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:15	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:15	4.6	mv
GC-AP-MW-41H	pH	4/6/2022 11:15	6.02	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:15	18.64	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:15	22.7	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:20	679.3	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:20	0.26	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:20	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:20	2.99	mv
GC-AP-MW-41H	pH	4/6/2022 11:20	6.06	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:20	18.64	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:20	17.8	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:25	688.8	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:25	0.25	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:25	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:25	1.76	mv
GC-AP-MW-41H	pH	4/6/2022 11:25	6.08	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:25	18.63	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:25	18.1	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:30	698.57	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:30	0.25	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:30	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:30	0.51	mv
GC-AP-MW-41H	pH	4/6/2022 11:30	6.1	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:30	18.67	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:30	15.9	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:35	701.12	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:35	0.25	mg/L

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:35	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:35	-0.42	mv
GC-AP-MW-41H	pH	4/6/2022 11:35	6.11	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:35	18.65	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:35	10.57	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:40	708.48	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:40	0.25	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:40	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:40	-1.35	mv
GC-AP-MW-41H	pH	4/6/2022 11:40	6.12	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:40	18.64	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:40	8.37	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:45	714.76	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:45	0.25	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:45	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:45	-2.34	mv
GC-AP-MW-41H	pH	4/6/2022 11:45	6.15	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:45	18.59	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:45	8.7	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:50	719.57	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:50	0.25	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:50	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:50	-2.93	mv
GC-AP-MW-41H	pH	4/6/2022 11:50	6.15	SU
GC-AP-MW-41H	Temperature	4/6/2022 11:50	18.61	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:50	8.3	NTU
GC-AP-MW-41H	Conductivity	4/6/2022 11:55	723.95	uS/cm
GC-AP-MW-41H	DO	4/6/2022 11:55	0.25	mg/L
GC-AP-MW-41H	Depth to Water Detail	4/6/2022 11:55	6.36	ft
GC-AP-MW-41H	Oxidation Reduction Potention	4/6/2022 11:55	-3.37	mv
GC-AP-MW-41H	pH	4/6/2022 11:55	6.16	SU
GC-AP-MW-41H	Sulfide	4/6/2022 11:55	0	mg/L
GC-AP-MW-41H	Temperature	4/6/2022 11:55	18.6	C
GC-AP-MW-41H	Turbidity	4/6/2022 11:55	8.36	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-53H	Conductivity	4/6/2022 7:52	708.18	uS/cm
GC-AP-MW-53H	DO	4/6/2022 7:52	0.48	mg/L
GC-AP-MW-53H	Depth to Water Detail	4/6/2022 7:52	9.54	ft
GC-AP-MW-53H	Oxidation Reduction Potention	4/6/2022 7:52	-57.42	mv
GC-AP-MW-53H	pH	4/6/2022 7:52	6.11	SU
GC-AP-MW-53H	Temperature	4/6/2022 7:52	16.85	C
GC-AP-MW-53H	Turbidity	4/6/2022 7:52	13.26	NTU
GC-AP-MW-53H	Conductivity	4/6/2022 7:57	712.2	uS/cm
GC-AP-MW-53H	DO	4/6/2022 7:57	0.42	mg/L
GC-AP-MW-53H	Depth to Water Detail	4/6/2022 7:57	9.54	ft
GC-AP-MW-53H	Oxidation Reduction Potention	4/6/2022 7:57	-55.43	mv
GC-AP-MW-53H	pH	4/6/2022 7:57	6.12	SU
GC-AP-MW-53H	Temperature	4/6/2022 7:57	16.89	C
GC-AP-MW-53H	Turbidity	4/6/2022 7:57	8.94	NTU
GC-AP-MW-53H	Conductivity	4/6/2022 8:02	714.47	uS/cm
GC-AP-MW-53H	DO	4/6/2022 8:02	0.4	mg/L
GC-AP-MW-53H	Depth to Water Detail	4/6/2022 8:02	9.54	ft
GC-AP-MW-53H	Oxidation Reduction Potention	4/6/2022 8:02	-57.9	mv
GC-AP-MW-53H	pH	4/6/2022 8:02	6.18	SU
GC-AP-MW-53H	Temperature	4/6/2022 8:02	16.96	C
GC-AP-MW-53H	Turbidity	4/6/2022 8:02	5.69	NTU
GC-AP-MW-53H	Conductivity	4/6/2022 8:07	715.12	uS/cm
GC-AP-MW-53H	DO	4/6/2022 8:07	0.38	mg/L
GC-AP-MW-53H	Depth to Water Detail	4/6/2022 8:07	9.54	ft
GC-AP-MW-53H	Oxidation Reduction Potention	4/6/2022 8:07	-60.82	mv
GC-AP-MW-53H	pH	4/6/2022 8:07	6.23	SU
GC-AP-MW-53H	Sulfide	4/6/2022 8:07	0	mg/L
GC-AP-MW-53H	Temperature	4/6/2022 8:07	16.97	C
GC-AP-MW-53H	Turbidity	4/6/2022 8:07	4.15	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-54H	Conductivity	4/5/2022 17:17	662.96	uS/cm
GC-AP-MW-54H	DO	4/5/2022 17:17	0.39	mg/L
GC-AP-MW-54H	Depth to Water Detail	4/5/2022 17:17	8.51	ft
GC-AP-MW-54H	Oxidation Reduction Potention	4/5/2022 17:17	-37.59	mv
GC-AP-MW-54H	pH	4/5/2022 17:17	6.4	SU
GC-AP-MW-54H	Temperature	4/5/2022 17:17	16.9	C
GC-AP-MW-54H	Turbidity	4/5/2022 17:17	57.7	NTU
GC-AP-MW-54H	Conductivity	4/5/2022 17:22	674.65	uS/cm
GC-AP-MW-54H	DO	4/5/2022 17:22	0.35	mg/L
GC-AP-MW-54H	Depth to Water Detail	4/5/2022 17:22	8.51	ft
GC-AP-MW-54H	Oxidation Reduction Potention	4/5/2022 17:22	-55	mv
GC-AP-MW-54H	pH	4/5/2022 17:22	6.46	SU
GC-AP-MW-54H	Temperature	4/5/2022 17:22	16.87	C
GC-AP-MW-54H	Turbidity	4/5/2022 17:22	22.9	NTU
GC-AP-MW-54H	Conductivity	4/5/2022 17:27	680.24	uS/cm
GC-AP-MW-54H	DO	4/5/2022 17:27	0.34	mg/L
GC-AP-MW-54H	Depth to Water Detail	4/5/2022 17:27	8.51	ft
GC-AP-MW-54H	Oxidation Reduction Potention	4/5/2022 17:27	-64.78	mv
GC-AP-MW-54H	pH	4/5/2022 17:27	6.5	SU
GC-AP-MW-54H	Temperature	4/5/2022 17:27	16.86	C
GC-AP-MW-54H	Turbidity	4/5/2022 17:27	13.15	NTU
GC-AP-MW-54H	Conductivity	4/5/2022 17:32	684.01	uS/cm
GC-AP-MW-54H	DO	4/5/2022 17:32	0.33	mg/L
GC-AP-MW-54H	Depth to Water Detail	4/5/2022 17:32	8.51	ft
GC-AP-MW-54H	Oxidation Reduction Potention	4/5/2022 17:32	-71.43	mv
GC-AP-MW-54H	pH	4/5/2022 17:32	6.53	SU
GC-AP-MW-54H	Temperature	4/5/2022 17:32	16.85	C
GC-AP-MW-54H	Turbidity	4/5/2022 17:32	9.33	NTU
GC-AP-MW-54H	Conductivity	4/5/2022 17:37	687.62	uS/cm
GC-AP-MW-54H	DO	4/5/2022 17:37	0.32	mg/L
GC-AP-MW-54H	Depth to Water Detail	4/5/2022 17:37	8.51	ft
GC-AP-MW-54H	Oxidation Reduction Potention	4/5/2022 17:37	-76.21	mv
GC-AP-MW-54H	pH	4/5/2022 17:37	6.56	SU
GC-AP-MW-54H	Temperature	4/5/2022 17:37	16.81	C
GC-AP-MW-54H	Turbidity	4/5/2022 17:37	6.54	NTU
GC-AP-MW-54H	Conductivity	4/5/2022 17:42	690.29	uS/cm
GC-AP-MW-54H	DO	4/5/2022 17:42	0.32	mg/L
GC-AP-MW-54H	Depth to Water Detail	4/5/2022 17:42	8.51	ft
GC-AP-MW-54H	Oxidation Reduction Potention	4/5/2022 17:42	-79.41	mv
GC-AP-MW-54H	pH	4/5/2022 17:42	6.57	SU
GC-AP-MW-54H	Temperature	4/5/2022 17:42	16.81	C
GC-AP-MW-54H	Turbidity	4/5/2022 17:42	5.47	NTU
GC-AP-MW-54H	Conductivity	4/5/2022 17:47	693.2	uS/cm
GC-AP-MW-54H	DO	4/5/2022 17:47	0.32	mg/L
GC-AP-MW-54H	Depth to Water Detail	4/5/2022 17:47	8.51	ft
GC-AP-MW-54H	Oxidation Reduction Potention	4/5/2022 17:47	-82.01	mv
GC-AP-MW-54H	pH	4/5/2022 17:47	6.59	SU
GC-AP-MW-54H	Sulfide	4/5/2022 17:47	0	mg/L
GC-AP-MW-54H	Temperature	4/5/2022 17:47	16.8	C
GC-AP-MW-54H	Turbidity	4/5/2022 17:47	4.62	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-57H	Conductivity	4/5/2022 16:09	157.93	uS/cm
GC-AP-MW-57H	DO	4/5/2022 16:09	0.43	mg/L
GC-AP-MW-57H	Depth to Water Detail	4/5/2022 16:09	4.84	ft
GC-AP-MW-57H	Oxidation Reduction Potention	4/5/2022 16:09	144.79	mv
GC-AP-MW-57H	pH	4/5/2022 16:09	4.62	SU
GC-AP-MW-57H	Temperature	4/5/2022 16:09	16.48	C
GC-AP-MW-57H	Turbidity	4/5/2022 16:09	12.49	NTU
GC-AP-MW-57H	Conductivity	4/5/2022 16:14	185.44	uS/cm
GC-AP-MW-57H	DO	4/5/2022 16:14	0.38	mg/L
GC-AP-MW-57H	Depth to Water Detail	4/5/2022 16:14	4.84	ft
GC-AP-MW-57H	Oxidation Reduction Potention	4/5/2022 16:14	141.57	mv
GC-AP-MW-57H	pH	4/5/2022 16:14	4.77	SU
GC-AP-MW-57H	Temperature	4/5/2022 16:14	16.56	C
GC-AP-MW-57H	Turbidity	4/5/2022 16:14	9.34	NTU
GC-AP-MW-57H	Conductivity	4/5/2022 16:19	199.62	uS/cm
GC-AP-MW-57H	DO	4/5/2022 16:19	0.36	mg/L
GC-AP-MW-57H	Depth to Water Detail	4/5/2022 16:19	4.84	ft
GC-AP-MW-57H	Oxidation Reduction Potention	4/5/2022 16:19	129.98	mv
GC-AP-MW-57H	pH	4/5/2022 16:19	4.92	SU
GC-AP-MW-57H	Temperature	4/5/2022 16:19	16.58	C
GC-AP-MW-57H	Turbidity	4/5/2022 16:19	6.98	NTU
GC-AP-MW-57H	Conductivity	4/5/2022 16:24	218.78	uS/cm
GC-AP-MW-57H	DO	4/5/2022 16:24	0.34	mg/L
GC-AP-MW-57H	Depth to Water Detail	4/5/2022 16:24	4.84	ft
GC-AP-MW-57H	Oxidation Reduction Potention	4/5/2022 16:24	116.3	mv
GC-AP-MW-57H	pH	4/5/2022 16:24	5.05	SU
GC-AP-MW-57H	Temperature	4/5/2022 16:24	16.54	C
GC-AP-MW-57H	Turbidity	4/5/2022 16:24	6.39	NTU
GC-AP-MW-57H	Conductivity	4/5/2022 16:29	228.31	uS/cm
GC-AP-MW-57H	DO	4/5/2022 16:29	0.34	mg/L
GC-AP-MW-57H	Depth to Water Detail	4/5/2022 16:29	4.84	ft
GC-AP-MW-57H	Oxidation Reduction Potention	4/5/2022 16:29	103.83	mv
GC-AP-MW-57H	pH	4/5/2022 16:29	5.17	SU
GC-AP-MW-57H	Temperature	4/5/2022 16:29	16.52	C
GC-AP-MW-57H	Turbidity	4/5/2022 16:29	5.57	NTU
GC-AP-MW-57H	Conductivity	4/5/2022 16:34	245.32	uS/cm
GC-AP-MW-57H	DO	4/5/2022 16:34	0.33	mg/L
GC-AP-MW-57H	Depth to Water Detail	4/5/2022 16:34	4.84	ft
GC-AP-MW-57H	Oxidation Reduction Potention	4/5/2022 16:34	93.22	mv
GC-AP-MW-57H	pH	4/5/2022 16:34	5.27	SU
GC-AP-MW-57H	Temperature	4/5/2022 16:34	16.58	C
GC-AP-MW-57H	Turbidity	4/5/2022 16:34	5.23	NTU
GC-AP-MW-57H	Conductivity	4/5/2022 16:39	249.04	uS/cm
GC-AP-MW-57H	DO	4/5/2022 16:39	0.32	mg/L
GC-AP-MW-57H	Depth to Water Detail	4/5/2022 16:39	4.84	ft
GC-AP-MW-57H	Oxidation Reduction Potention	4/5/2022 16:39	85.99	mv
GC-AP-MW-57H	pH	4/5/2022 16:39	5.34	SU
GC-AP-MW-57H	Temperature	4/5/2022 16:39	16.57	C
GC-AP-MW-57H	Turbidity	4/5/2022 16:39	4.88	NTU
GC-AP-MW-57H	Conductivity	4/5/2022 16:44	251.21	uS/cm
GC-AP-MW-57H	DO	4/5/2022 16:44	0.32	mg/L

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-57H	Depth to Water Detail	4/5/2022 16:44	4.84	ft
GC-AP-MW-57H	Oxidation Reduction Potention	4/5/2022 16:44	78.5	mv
GC-AP-MW-57H	pH	4/5/2022 16:44	5.41	SU
GC-AP-MW-57H	Sulfide	4/5/2022 16:44	0	mg/L
GC-AP-MW-57H	Temperature	4/5/2022 16:44	16.57	C
GC-AP-MW-57H	Turbidity	4/5/2022 16:44	4.92	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-3	Conductivity	4/5/2022 17:53	521.49	uS/cm
GC-AP-MW-3	DO	4/5/2022 17:53	0.57	mg/L
GC-AP-MW-3	Depth to Water Detail	4/5/2022 17:53	15.05	ft
GC-AP-MW-3	Oxidation Reduction Potention	4/5/2022 17:53	-45.23	mv
GC-AP-MW-3	pH	4/5/2022 17:53	6.24	SU
GC-AP-MW-3	Temperature	4/5/2022 17:53	26.38	C
GC-AP-MW-3	Turbidity	4/5/2022 17:53	3.83	NTU
GC-AP-MW-3	Conductivity	4/5/2022 17:58	528.26	uS/cm
GC-AP-MW-3	DO	4/5/2022 17:58	0.49	mg/L
GC-AP-MW-3	Depth to Water Detail	4/5/2022 17:58	15.11	ft
GC-AP-MW-3	Oxidation Reduction Potention	4/5/2022 17:58	-48.72	mv
GC-AP-MW-3	pH	4/5/2022 17:58	6.25	SU
GC-AP-MW-3	Temperature	4/5/2022 17:58	26.39	C
GC-AP-MW-3	Turbidity	4/5/2022 17:58	4.5	NTU
GC-AP-MW-3	Conductivity	4/5/2022 18:03	529.93	uS/cm
GC-AP-MW-3	DO	4/5/2022 18:03	0.46	mg/L
GC-AP-MW-3	Depth to Water Detail	4/5/2022 18:03	15.16	ft
GC-AP-MW-3	Oxidation Reduction Potention	4/5/2022 18:03	-51.49	mv
GC-AP-MW-3	pH	4/5/2022 18:03	6.26	SU
GC-AP-MW-3	Temperature	4/5/2022 18:03	26.32	C
GC-AP-MW-3	Turbidity	4/5/2022 18:03	3.89	NTU
GC-AP-MW-3	Conductivity	4/5/2022 18:08	532.06	uS/cm
GC-AP-MW-3	DO	4/5/2022 18:08	0.45	mg/L
GC-AP-MW-3	Depth to Water Detail	4/5/2022 18:08	15.21	ft
GC-AP-MW-3	Oxidation Reduction Potention	4/5/2022 18:08	-53.4	mv
GC-AP-MW-3	pH	4/5/2022 18:08	6.27	SU
GC-AP-MW-3	Sulfide	4/5/2022 18:08	0	mg/L
GC-AP-MW-3	Temperature	4/5/2022 18:08	26.33	C
GC-AP-MW-3	Turbidity	4/5/2022 18:08	1.8	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-5	Conductivity	4/4/2022 18:03	525.46	uS/cm
GC-AP-MW-5	DO	4/4/2022 18:03	0.71	mg/L
GC-AP-MW-5	Depth to Water Detail	4/4/2022 18:03	14.51	ft
GC-AP-MW-5	Oxidation Reduction Potention	4/4/2022 18:03	-88.33	mv
GC-AP-MW-5	pH	4/4/2022 18:03	6.4	SU
GC-AP-MW-5	Temperature	4/4/2022 18:03	25.5	C
GC-AP-MW-5	Turbidity	4/4/2022 18:03	12.22	NTU
GC-AP-MW-5	Conductivity	4/4/2022 18:08	518.87	uS/cm
GC-AP-MW-5	DO	4/4/2022 18:08	0.53	mg/L
GC-AP-MW-5	Depth to Water Detail	4/4/2022 18:08	14.51	ft
GC-AP-MW-5	Oxidation Reduction Potention	4/4/2022 18:08	-81.42	mv
GC-AP-MW-5	pH	4/4/2022 18:08	6.29	SU
GC-AP-MW-5	Temperature	4/4/2022 18:08	25.59	C
GC-AP-MW-5	Turbidity	4/4/2022 18:08	8.33	NTU
GC-AP-MW-5	Conductivity	4/4/2022 18:13	513.18	uS/cm
GC-AP-MW-5	DO	4/4/2022 18:13	0.49	mg/L
GC-AP-MW-5	Depth to Water Detail	4/4/2022 18:13	14.51	ft
GC-AP-MW-5	Oxidation Reduction Potention	4/4/2022 18:13	-79.6	mv
GC-AP-MW-5	pH	4/4/2022 18:13	6.27	SU
GC-AP-MW-5	Temperature	4/4/2022 18:13	25.56	C
GC-AP-MW-5	Turbidity	4/4/2022 18:13	10.04	NTU
GC-AP-MW-5	Conductivity	4/4/2022 18:18	511.98	uS/cm
GC-AP-MW-5	DO	4/4/2022 18:18	0.46	mg/L
GC-AP-MW-5	Depth to Water Detail	4/4/2022 18:18	14.51	ft
GC-AP-MW-5	Oxidation Reduction Potention	4/4/2022 18:18	-81.5	mv
GC-AP-MW-5	pH	4/4/2022 18:18	6.31	SU
GC-AP-MW-5	Temperature	4/4/2022 18:18	25.54	C
GC-AP-MW-5	Turbidity	4/4/2022 18:18	6.67	NTU
GC-AP-MW-5	Conductivity	4/4/2022 18:23	511.59	uS/cm
GC-AP-MW-5	DO	4/4/2022 18:23	0.44	mg/L
GC-AP-MW-5	Depth to Water Detail	4/4/2022 18:23	14.51	ft
GC-AP-MW-5	Oxidation Reduction Potention	4/4/2022 18:23	-85.59	mv
GC-AP-MW-5	pH	4/4/2022 18:23	6.4	SU
GC-AP-MW-5	Temperature	4/4/2022 18:23	25.51	C
GC-AP-MW-5	Turbidity	4/4/2022 18:23	7.94	NTU
GC-AP-MW-5	Conductivity	4/4/2022 18:28	508.59	uS/cm
GC-AP-MW-5	DO	4/4/2022 18:28	0.43	mg/L
GC-AP-MW-5	Depth to Water Detail	4/4/2022 18:28	14.51	ft
GC-AP-MW-5	Oxidation Reduction Potention	4/4/2022 18:28	-86.8	mv
GC-AP-MW-5	pH	4/4/2022 18:28	6.42	SU
GC-AP-MW-5	Sulfide	4/4/2022 18:28	0	mg/L
GC-AP-MW-5	Temperature	4/4/2022 18:28	25.49	C
GC-AP-MW-5	Turbidity	4/4/2022 18:28	4.78	NTU

**Groundwater Field Parameters
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WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-10	Conductivity	4/4/2022 14:10	633.53	uS/cm
GC-AP-MW-10	DO	4/4/2022 14:10	0.52	mg/L
GC-AP-MW-10	Depth to Water Detail	4/4/2022 14:10	6.39	ft
GC-AP-MW-10	Oxidation Reduction Potention	4/4/2022 14:10	-99.21	mv
GC-AP-MW-10	pH	4/4/2022 14:10	6.59	SU
GC-AP-MW-10	Temperature	4/4/2022 14:10	25.46	C
GC-AP-MW-10	Turbidity	4/4/2022 14:10	3.61	NTU
GC-AP-MW-10	Conductivity	4/4/2022 14:15	630.43	uS/cm
GC-AP-MW-10	DO	4/4/2022 14:15	0.3	mg/L
GC-AP-MW-10	Depth to Water Detail	4/4/2022 14:15	6.39	ft
GC-AP-MW-10	Oxidation Reduction Potention	4/4/2022 14:15	-98.09	mv
GC-AP-MW-10	pH	4/4/2022 14:15	6.57	SU
GC-AP-MW-10	Temperature	4/4/2022 14:15	25.55	C
GC-AP-MW-10	Turbidity	4/4/2022 14:15	0.93	NTU
GC-AP-MW-10	Conductivity	4/4/2022 14:23	627.26	uS/cm
GC-AP-MW-10	DO	4/4/2022 14:23	2.07	mg/L
GC-AP-MW-10	Depth to Water Detail	4/4/2022 14:23	6.39	ft
GC-AP-MW-10	Oxidation Reduction Potention	4/4/2022 14:23	-92.61	mv
GC-AP-MW-10	pH	4/4/2022 14:23	6.44	SU
GC-AP-MW-10	Temperature	4/4/2022 14:23	25.7	C
GC-AP-MW-10	Turbidity	4/4/2022 14:23	2.12	NTU
GC-AP-MW-10	Conductivity	4/4/2022 14:28	629.11	uS/cm
GC-AP-MW-10	DO	4/4/2022 14:28	0.21	mg/L
GC-AP-MW-10	Depth to Water Detail	4/4/2022 14:28	6.39	ft
GC-AP-MW-10	Oxidation Reduction Potention	4/4/2022 14:28	-74.97	mv
GC-AP-MW-10	pH	4/4/2022 14:28	6.26	SU
GC-AP-MW-10	Temperature	4/4/2022 14:28	25.46	C
GC-AP-MW-10	Turbidity	4/4/2022 14:28	1.06	NTU
GC-AP-MW-10	Conductivity	4/4/2022 14:33	629.53	uS/cm
GC-AP-MW-10	DO	4/4/2022 14:33	0.2	mg/L
GC-AP-MW-10	Depth to Water Detail	4/4/2022 14:33	6.39	ft
GC-AP-MW-10	Oxidation Reduction Potention	4/4/2022 14:33	-73.33	mv
GC-AP-MW-10	pH	4/4/2022 14:33	6.22	SU
GC-AP-MW-10	Temperature	4/4/2022 14:33	25.54	C
GC-AP-MW-10	Turbidity	4/4/2022 14:33	0.64	NTU
GC-AP-MW-10	Conductivity	4/4/2022 14:38	627.33	uS/cm
GC-AP-MW-10	DO	4/4/2022 14:38	0.19	mg/L
GC-AP-MW-10	Depth to Water Detail	4/4/2022 14:38	6.39	ft
GC-AP-MW-10	Oxidation Reduction Potention	4/4/2022 14:38	-71.76	mv
GC-AP-MW-10	pH	4/4/2022 14:38	6.21	SU
GC-AP-MW-10	Sulfide	4/4/2022 14:38	0	mg/L
GC-AP-MW-10	Temperature	4/4/2022 14:38	25.5	C
GC-AP-MW-10	Turbidity	4/4/2022 14:38	0.4	NTU

**Groundwater Field Parameters
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WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-13	Conductivity	4/6/2022 10:31	314.52	uS/cm
GC-AP-MW-13	DO	4/6/2022 10:31	1.1	mg/L
GC-AP-MW-13	Depth to Water Detail	4/6/2022 10:31	19.79	ft
GC-AP-MW-13	Oxidation Reduction Potention	4/6/2022 10:31	45.96	mv
GC-AP-MW-13	pH	4/6/2022 10:31	6.2	SU
GC-AP-MW-13	Temperature	4/6/2022 10:31	26.54	C
GC-AP-MW-13	Turbidity	4/6/2022 10:31	0.66	NTU
GC-AP-MW-13	Conductivity	4/6/2022 10:36	341.95	uS/cm
GC-AP-MW-13	DO	4/6/2022 10:36	0.96	mg/L
GC-AP-MW-13	Depth to Water Detail	4/6/2022 10:36	19.79	ft
GC-AP-MW-13	Oxidation Reduction Potention	4/6/2022 10:36	54.34	mv
GC-AP-MW-13	pH	4/6/2022 10:36	6.23	SU
GC-AP-MW-13	Temperature	4/6/2022 10:36	26.62	C
GC-AP-MW-13	Turbidity	4/6/2022 10:36	0.92	NTU
GC-AP-MW-13	Conductivity	4/6/2022 10:41	376.89	uS/cm
GC-AP-MW-13	DO	4/6/2022 10:41	0.99	mg/L
GC-AP-MW-13	Depth to Water Detail	4/6/2022 10:41	19.79	ft
GC-AP-MW-13	Oxidation Reduction Potention	4/6/2022 10:41	60.12	mv
GC-AP-MW-13	pH	4/6/2022 10:41	6.22	SU
GC-AP-MW-13	Temperature	4/6/2022 10:41	26.64	C
GC-AP-MW-13	Turbidity	4/6/2022 10:41	0.85	NTU
GC-AP-MW-13	Conductivity	4/6/2022 10:46	392.3	uS/cm
GC-AP-MW-13	DO	4/6/2022 10:46	0.95	mg/L
GC-AP-MW-13	Depth to Water Detail	4/6/2022 10:46	19.79	ft
GC-AP-MW-13	Oxidation Reduction Potention	4/6/2022 10:46	62.38	mv
GC-AP-MW-13	pH	4/6/2022 10:46	6.22	SU
GC-AP-MW-13	Temperature	4/6/2022 10:46	26.68	C
GC-AP-MW-13	Turbidity	4/6/2022 10:46	0.57	NTU
GC-AP-MW-13	Conductivity	4/6/2022 10:51	401.94	uS/cm
GC-AP-MW-13	DO	4/6/2022 10:51	0.95	mg/L
GC-AP-MW-13	Depth to Water Detail	4/6/2022 10:51	19.79	ft
GC-AP-MW-13	Oxidation Reduction Potention	4/6/2022 10:51	61.75	mv
GC-AP-MW-13	pH	4/6/2022 10:51	6.24	SU
GC-AP-MW-13	Temperature	4/6/2022 10:51	26.69	C
GC-AP-MW-13	Turbidity	4/6/2022 10:51	0.48	NTU
GC-AP-MW-13	Conductivity	4/6/2022 10:56	420.1	uS/cm
GC-AP-MW-13	DO	4/6/2022 10:56	0.99	mg/L
GC-AP-MW-13	Depth to Water Detail	4/6/2022 10:56	19.79	ft
GC-AP-MW-13	Oxidation Reduction Potention	4/6/2022 10:56	62.01	mv
GC-AP-MW-13	pH	4/6/2022 10:56	6.23	SU
GC-AP-MW-13	Temperature	4/6/2022 10:56	26.72	C
GC-AP-MW-13	Turbidity	4/6/2022 10:56	1.13	NTU
GC-AP-MW-13	Conductivity	4/6/2022 11:01	423	uS/cm
GC-AP-MW-13	DO	4/6/2022 11:01	1.01	mg/L
GC-AP-MW-13	Depth to Water Detail	4/6/2022 11:01	19.79	ft
GC-AP-MW-13	Oxidation Reduction Potention	4/6/2022 11:01	61.3	mv
GC-AP-MW-13	pH	4/6/2022 11:01	6.23	SU
GC-AP-MW-13	Temperature	4/6/2022 11:01	26.73	C
GC-AP-MW-13	Turbidity	4/6/2022 11:01	0.68	NTU
GC-AP-MW-13	Conductivity	4/6/2022 11:06	423.79	uS/cm
GC-AP-MW-13	DO	4/6/2022 11:06	0.93	mg/L

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-13	Depth to Water Detail	4/6/2022 11:06	19.79	ft
GC-AP-MW-13	Oxidation Reduction Potention	4/6/2022 11:06	60.05	mv
GC-AP-MW-13	pH	4/6/2022 11:06	6.24	SU
GC-AP-MW-13	Sulfide	4/6/2022 11:06	0	mg/L
GC-AP-MW-13	Temperature	4/6/2022 11:06	26.7	C
GC-AP-MW-13	Turbidity	4/6/2022 11:06	0.68	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-14	Conductivity	4/4/2022 12:10	880.6	uS/cm
GC-AP-MW-14	DO	4/4/2022 12:10	0.34	mg/L
GC-AP-MW-14	Depth to Water Detail	4/4/2022 12:10	4.36	ft
GC-AP-MW-14	Oxidation Reduction Potential	4/4/2022 12:10	-90.86	mv
GC-AP-MW-14	pH	4/4/2022 12:10	6.41	SU
GC-AP-MW-14	Temperature	4/4/2022 12:10	23.29	C
GC-AP-MW-14	Turbidity	4/4/2022 12:10	2.44	NTU
GC-AP-MW-14	Conductivity	4/4/2022 12:15	875.73	uS/cm
GC-AP-MW-14	DO	4/4/2022 12:15	0.28	mg/L
GC-AP-MW-14	Depth to Water Detail	4/4/2022 12:15	4.38	ft
GC-AP-MW-14	Oxidation Reduction Potential	4/4/2022 12:15	-85.32	mv
GC-AP-MW-14	pH	4/4/2022 12:15	6.4	SU
GC-AP-MW-14	Temperature	4/4/2022 12:15	23.29	C
GC-AP-MW-14	Turbidity	4/4/2022 12:15	2.43	NTU
GC-AP-MW-14	Conductivity	4/4/2022 12:20	887.65	uS/cm
GC-AP-MW-14	DO	4/4/2022 12:20	0.26	mg/L
GC-AP-MW-14	Depth to Water Detail	4/4/2022 12:20	4.38	ft
GC-AP-MW-14	Oxidation Reduction Potential	4/4/2022 12:20	-82.45	mv
GC-AP-MW-14	pH	4/4/2022 12:20	6.39	SU
GC-AP-MW-14	Temperature	4/4/2022 12:20	23.32	C
GC-AP-MW-14	Turbidity	4/4/2022 12:20	0.85	NTU
GC-AP-MW-14	Conductivity	4/4/2022 12:25	891.38	uS/cm
GC-AP-MW-14	DO	4/4/2022 12:25	0.23	mg/L
GC-AP-MW-14	Depth to Water Detail	4/4/2022 12:25	4.38	ft
GC-AP-MW-14	Oxidation Reduction Potential	4/4/2022 12:25	-81.39	mv
GC-AP-MW-14	pH	4/4/2022 12:25	6.39	SU
GC-AP-MW-14	Sulfide	4/4/2022 12:25	0	mg/L
GC-AP-MW-14	Temperature	4/4/2022 12:25	23.4	C
GC-AP-MW-14	Turbidity	4/4/2022 12:25	0.96	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-16	Conductivity	4/6/2022 11:34	748.69	uS/cm
GC-AP-MW-16	DO	4/6/2022 11:34	0.12	mg/L
GC-AP-MW-16	Depth to Water Detail	4/6/2022 11:34	28.8	ft
GC-AP-MW-16	Oxidation Reduction Potention	4/6/2022 11:34	-30.73	mv
GC-AP-MW-16	pH	4/6/2022 11:34	6.4	SU
GC-AP-MW-16	Temperature	4/6/2022 11:34	26.32	C
GC-AP-MW-16	Turbidity	4/6/2022 11:34	41.6	NTU
GC-AP-MW-16	Conductivity	4/6/2022 11:39	748.6	uS/cm
GC-AP-MW-16	DO	4/6/2022 11:39	0.09	mg/L
GC-AP-MW-16	Depth to Water Detail	4/6/2022 11:39	28.8	ft
GC-AP-MW-16	Oxidation Reduction Potention	4/6/2022 11:39	-37.08	mv
GC-AP-MW-16	pH	4/6/2022 11:39	6.41	SU
GC-AP-MW-16	Temperature	4/6/2022 11:39	26.31	C
GC-AP-MW-16	Turbidity	4/6/2022 11:39	25.9	NTU
GC-AP-MW-16	Conductivity	4/6/2022 11:44	749.95	uS/cm
GC-AP-MW-16	DO	4/6/2022 11:44	0.08	mg/L
GC-AP-MW-16	Depth to Water Detail	4/6/2022 11:44	28.8	ft
GC-AP-MW-16	Oxidation Reduction Potention	4/6/2022 11:44	-41.63	mv
GC-AP-MW-16	pH	4/6/2022 11:44	6.42	SU
GC-AP-MW-16	Temperature	4/6/2022 11:44	26.25	C
GC-AP-MW-16	Turbidity	4/6/2022 11:44	14.7	NTU
GC-AP-MW-16	Conductivity	4/6/2022 11:49	749.68	uS/cm
GC-AP-MW-16	DO	4/6/2022 11:49	0.07	mg/L
GC-AP-MW-16	Depth to Water Detail	4/6/2022 11:49	28.8	ft
GC-AP-MW-16	Oxidation Reduction Potention	4/6/2022 11:49	-44.36	mv
GC-AP-MW-16	pH	4/6/2022 11:49	6.42	SU
GC-AP-MW-16	Temperature	4/6/2022 11:49	26.28	C
GC-AP-MW-16	Turbidity	4/6/2022 11:49	10.13	NTU
GC-AP-MW-16	Conductivity	4/6/2022 11:54	748.84	uS/cm
GC-AP-MW-16	DO	4/6/2022 11:54	0.06	mg/L
GC-AP-MW-16	Depth to Water Detail	4/6/2022 11:54	28.8	ft
GC-AP-MW-16	Oxidation Reduction Potention	4/6/2022 11:54	-46.24	mv
GC-AP-MW-16	pH	4/6/2022 11:54	6.42	SU
GC-AP-MW-16	Temperature	4/6/2022 11:54	26.3	C
GC-AP-MW-16	Turbidity	4/6/2022 11:54	7.95	NTU
GC-AP-MW-16	Conductivity	4/6/2022 11:59	749.84	uS/cm
GC-AP-MW-16	DO	4/6/2022 11:59	0.06	mg/L
GC-AP-MW-16	Depth to Water Detail	4/6/2022 11:59	28.8	ft
GC-AP-MW-16	Oxidation Reduction Potention	4/6/2022 11:59	-46.76	mv
GC-AP-MW-16	pH	4/6/2022 11:59	6.41	SU
GC-AP-MW-16	Temperature	4/6/2022 11:59	26.35	C
GC-AP-MW-16	Turbidity	4/6/2022 11:59	5.13	NTU
GC-AP-MW-16	Conductivity	4/6/2022 12:04	746.84	uS/cm
GC-AP-MW-16	DO	4/6/2022 12:04	0.06	mg/L
GC-AP-MW-16	Depth to Water Detail	4/6/2022 12:04	28.8	ft
GC-AP-MW-16	Oxidation Reduction Potention	4/6/2022 12:04	-48.49	mv
GC-AP-MW-16	pH	4/6/2022 12:04	6.42	SU
GC-AP-MW-16	Sulfide	4/6/2022 12:04	0	mg/L
GC-AP-MW-16	Temperature	4/6/2022 12:04	26.29	C
GC-AP-MW-16	Turbidity	4/6/2022 12:04	4.33	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-17	Conductivity	4/4/2022 15:59	750.01	uS/cm
GC-AP-MW-17	DO	4/4/2022 15:59	0.18	mg/L
GC-AP-MW-17	Depth to Water Detail	4/4/2022 15:59	26.84	ft
GC-AP-MW-17	Oxidation Reduction Potention	4/4/2022 15:59	-116.72	mv
GC-AP-MW-17	pH	4/4/2022 15:59	6.69	SU
GC-AP-MW-17	Temperature	4/4/2022 15:59	26.61	C
GC-AP-MW-17	Turbidity	4/4/2022 15:59	3.26	NTU
GC-AP-MW-17	Conductivity	4/4/2022 16:04	752.41	uS/cm
GC-AP-MW-17	DO	4/4/2022 16:04	0.15	mg/L
GC-AP-MW-17	Depth to Water Detail	4/4/2022 16:04	26.84	ft
GC-AP-MW-17	Oxidation Reduction Potention	4/4/2022 16:04	-119.35	mv
GC-AP-MW-17	pH	4/4/2022 16:04	6.7	SU
GC-AP-MW-17	Temperature	4/4/2022 16:04	26.58	C
GC-AP-MW-17	Turbidity	4/4/2022 16:04	2.74	NTU
GC-AP-MW-17	Conductivity	4/4/2022 16:09	762.94	uS/cm
GC-AP-MW-17	DO	4/4/2022 16:09	0.13	mg/L
GC-AP-MW-17	Depth to Water Detail	4/4/2022 16:09	26.84	ft
GC-AP-MW-17	Oxidation Reduction Potention	4/4/2022 16:09	-120.66	mv
GC-AP-MW-17	pH	4/4/2022 16:09	6.71	SU
GC-AP-MW-17	Temperature	4/4/2022 16:09	26.51	C
GC-AP-MW-17	Turbidity	4/4/2022 16:09	2.27	NTU
GC-AP-MW-17	Conductivity	4/4/2022 16:14	773.09	uS/cm
GC-AP-MW-17	DO	4/4/2022 16:14	0.13	mg/L
GC-AP-MW-17	Depth to Water Detail	4/4/2022 16:14	26.84	ft
GC-AP-MW-17	Oxidation Reduction Potention	4/4/2022 16:14	-120.55	mv
GC-AP-MW-17	pH	4/4/2022 16:14	6.71	SU
GC-AP-MW-17	Sulfide	4/4/2022 16:14	0	mg/L
GC-AP-MW-17	Temperature	4/4/2022 16:14	26.47	C
GC-AP-MW-17	Turbidity	4/4/2022 16:14	2.05	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-18	Conductivity	4/6/2022 14:51	626.86	uS/cm
GC-AP-MW-18	DO	4/6/2022 14:51	0.17	mg/L
GC-AP-MW-18	Depth to Water Detail	4/6/2022 14:51	24.16	ft
GC-AP-MW-18	Oxidation Reduction Potention	4/6/2022 14:51	-18.21	mv
GC-AP-MW-18	pH	4/6/2022 14:51	6.3	SU
GC-AP-MW-18	Temperature	4/6/2022 14:51	27.6	C
GC-AP-MW-18	Turbidity	4/6/2022 14:51	7.31	NTU
GC-AP-MW-18	Conductivity	4/6/2022 14:56	628.8	uS/cm
GC-AP-MW-18	DO	4/6/2022 14:56	0.14	mg/L
GC-AP-MW-18	Depth to Water Detail	4/6/2022 14:56	24.16	ft
GC-AP-MW-18	Oxidation Reduction Potention	4/6/2022 14:56	-23.77	mv
GC-AP-MW-18	pH	4/6/2022 14:56	6.32	SU
GC-AP-MW-18	Temperature	4/6/2022 14:56	27.4	C
GC-AP-MW-18	Turbidity	4/6/2022 14:56	3.63	NTU
GC-AP-MW-18	Conductivity	4/6/2022 15:01	634.67	uS/cm
GC-AP-MW-18	DO	4/6/2022 15:01	0.12	mg/L
GC-AP-MW-18	Depth to Water Detail	4/6/2022 15:01	24.16	ft
GC-AP-MW-18	Oxidation Reduction Potention	4/6/2022 15:01	-25.48	mv
GC-AP-MW-18	pH	4/6/2022 15:01	6.3	SU
GC-AP-MW-18	Temperature	4/6/2022 15:01	27.46	C
GC-AP-MW-18	Turbidity	4/6/2022 15:01	2.91	NTU
GC-AP-MW-18	Conductivity	4/6/2022 15:06	636.34	uS/cm
GC-AP-MW-18	DO	4/6/2022 15:06	0.11	mg/L
GC-AP-MW-18	Depth to Water Detail	4/6/2022 15:06	24.16	ft
GC-AP-MW-18	Oxidation Reduction Potention	4/6/2022 15:06	-26.21	mv
GC-AP-MW-18	pH	4/6/2022 15:06	6.29	SU
GC-AP-MW-18	Sulfide	4/6/2022 15:06	0	mg/L
GC-AP-MW-18	Temperature	4/6/2022 15:06	27.48	C
GC-AP-MW-18	Turbidity	4/6/2022 15:06	2.48	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-42H	Conductivity	4/6/2022 8:15	601.7	uS/cm
GC-AP-MW-42H	DO	4/6/2022 8:15	0.15	mg/L
GC-AP-MW-42H	Depth to Water Detail	4/6/2022 8:15	5.03	ft
GC-AP-MW-42H	Oxidation Reduction Potention	4/6/2022 8:15	-24.71	mv
GC-AP-MW-42H	pH	4/6/2022 8:15	6.19	SU
GC-AP-MW-42H	Temperature	4/6/2022 8:15	24.7	C
GC-AP-MW-42H	Turbidity	4/6/2022 8:15	10.21	NTU
GC-AP-MW-42H	Conductivity	4/6/2022 8:20	592.09	uS/cm
GC-AP-MW-42H	DO	4/6/2022 8:20	0.13	mg/L
GC-AP-MW-42H	Depth to Water Detail	4/6/2022 8:20	5.06	ft
GC-AP-MW-42H	Oxidation Reduction Potention	4/6/2022 8:20	-25.92	mv
GC-AP-MW-42H	pH	4/6/2022 8:20	6.17	SU
GC-AP-MW-42H	Temperature	4/6/2022 8:20	24.72	C
GC-AP-MW-42H	Turbidity	4/6/2022 8:20	5.68	NTU
GC-AP-MW-42H	Conductivity	4/6/2022 8:25	584.8	uS/cm
GC-AP-MW-42H	DO	4/6/2022 8:25	0.12	mg/L
GC-AP-MW-42H	Depth to Water Detail	4/6/2022 8:25	5.11	ft
GC-AP-MW-42H	Oxidation Reduction Potention	4/6/2022 8:25	-25.79	mv
GC-AP-MW-42H	pH	4/6/2022 8:25	6.15	SU
GC-AP-MW-42H	Temperature	4/6/2022 8:25	24.78	C
GC-AP-MW-42H	Turbidity	4/6/2022 8:25	3.35	NTU
GC-AP-MW-42H	Conductivity	4/6/2022 8:30	577.97	uS/cm
GC-AP-MW-42H	DO	4/6/2022 8:30	0.14	mg/L
GC-AP-MW-42H	Depth to Water Detail	4/6/2022 8:30	5.14	ft
GC-AP-MW-42H	Oxidation Reduction Potention	4/6/2022 8:30	-24.33	mv
GC-AP-MW-42H	pH	4/6/2022 8:30	6.1	SU
GC-AP-MW-42H	Sulfide	4/6/2022 8:30	0	mg/L
GC-AP-MW-42H	Temperature	4/6/2022 8:30	24.82	C
GC-AP-MW-42H	Turbidity	4/6/2022 8:30	3.33	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-43H	Conductivity	4/6/2022 9:19	838.31	uS/cm
GC-AP-MW-43H	DO	4/6/2022 9:19	0.14	mg/L
GC-AP-MW-43H	Depth to Water Detail	4/6/2022 9:19	6.81	ft
GC-AP-MW-43H	Oxidation Reduction Potention	4/6/2022 9:19	-32.57	mv
GC-AP-MW-43H	pH	4/6/2022 9:19	6.42	SU
GC-AP-MW-43H	Temperature	4/6/2022 9:19	25.2	C
GC-AP-MW-43H	Turbidity	4/6/2022 9:19	20.3	NTU
GC-AP-MW-43H	Conductivity	4/6/2022 9:24	842.2	uS/cm
GC-AP-MW-43H	DO	4/6/2022 9:24	0.12	mg/L
GC-AP-MW-43H	Depth to Water Detail	4/6/2022 9:24	6.81	ft
GC-AP-MW-43H	Oxidation Reduction Potention	4/6/2022 9:24	-35.83	mv
GC-AP-MW-43H	pH	4/6/2022 9:24	6.43	SU
GC-AP-MW-43H	Temperature	4/6/2022 9:24	25.11	C
GC-AP-MW-43H	Turbidity	4/6/2022 9:24	11.28	NTU
GC-AP-MW-43H	Conductivity	4/6/2022 9:29	842.9	uS/cm
GC-AP-MW-43H	DO	4/6/2022 9:29	0.11	mg/L
GC-AP-MW-43H	Depth to Water Detail	4/6/2022 9:29	6.81	ft
GC-AP-MW-43H	Oxidation Reduction Potention	4/6/2022 9:29	-38.8	mv
GC-AP-MW-43H	pH	4/6/2022 9:29	6.43	SU
GC-AP-MW-43H	Temperature	4/6/2022 9:29	25.2	C
GC-AP-MW-43H	Turbidity	4/6/2022 9:29	7.79	NTU
GC-AP-MW-43H	Conductivity	4/6/2022 9:34	839.57	uS/cm
GC-AP-MW-43H	DO	4/6/2022 9:34	0.12	mg/L
GC-AP-MW-43H	Depth to Water Detail	4/6/2022 9:34	6.81	ft
GC-AP-MW-43H	Oxidation Reduction Potention	4/6/2022 9:34	-40.63	mv
GC-AP-MW-43H	pH	4/6/2022 9:34	6.43	SU
GC-AP-MW-43H	Sulfide	4/6/2022 9:34	0	mg/L
GC-AP-MW-43H	Temperature	4/6/2022 9:34	25.25	C
GC-AP-MW-43H	Turbidity	4/6/2022 9:34	4.25	NTU

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-PZ-4	Conductivity	4/5/2022 16:06	1023.98	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:06	0.86	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:06	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:06	2.98	mv
GC-AP-PZ-4	pH	4/5/2022 16:06	5.71	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:06	27.65	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:06	2.86	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:11	1085.12	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:11	0.66	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:11	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:11	-2.91	mv
GC-AP-PZ-4	pH	4/5/2022 16:11	5.78	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:11	27.54	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:11	4.76	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:16	1140.08	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:16	0.51	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:16	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:16	-6.61	mv
GC-AP-PZ-4	pH	4/5/2022 16:16	5.81	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:16	27.62	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:16	11.74	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:21	1173.78	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:21	0.45	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:21	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:21	-10.44	mv
GC-AP-PZ-4	pH	4/5/2022 16:21	5.85	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:21	27.73	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:21	11.59	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:26	1199.61	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:26	0.38	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:26	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:26	-10.46	mv
GC-AP-PZ-4	pH	4/5/2022 16:26	5.83	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:26	27.78	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:26	11.33	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:31	1215.67	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:31	0.34	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:31	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:31	-14.3	mv
GC-AP-PZ-4	pH	4/5/2022 16:31	5.88	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:31	27.7	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:31	10.49	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:36	1229.58	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:36	0.31	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:36	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:36	-16.72	mv
GC-AP-PZ-4	pH	4/5/2022 16:36	5.9	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:36	27.81	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:36	8.17	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:41	1248.3	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:41	0.28	mg/L

**Groundwater Field Parameters
Plant Greene County Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:41	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:41	-17.95	mv
GC-AP-PZ-4	pH	4/5/2022 16:41	5.91	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:41	27.9	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:41	6.95	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:46	1250.1	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:46	0.25	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:46	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:46	-19.36	mv
GC-AP-PZ-4	pH	4/5/2022 16:46	5.93	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:46	27.94	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:46	6.04	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:51	1249.15	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:51	0.24	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:51	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:51	-19.84	mv
GC-AP-PZ-4	pH	4/5/2022 16:51	5.93	SU
GC-AP-PZ-4	Temperature	4/5/2022 16:51	27.91	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:51	5.61	NTU
GC-AP-PZ-4	Conductivity	4/5/2022 16:56	1260.99	uS/cm
GC-AP-PZ-4	DO	4/5/2022 16:56	0.23	mg/L
GC-AP-PZ-4	Depth to Water Detail	4/5/2022 16:56	12.48	ft
GC-AP-PZ-4	Oxidation Reduction Potention	4/5/2022 16:56	-21.08	mv
GC-AP-PZ-4	pH	4/5/2022 16:56	5.95	SU
GC-AP-PZ-4	Sulfide	4/5/2022 16:56	0	mg/L
GC-AP-PZ-4	Temperature	4/5/2022 16:56	27.79	C
GC-AP-PZ-4	Turbidity	4/5/2022 16:56	4.61	NTU

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

Analytical Report



Sample Group : WMWGREAP_1358

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

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

Attention : Dustin Brooks & Greg Dyer

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

May 10, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between March 29, 2022 and April 07, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2022.05.10
14:04:49 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, c=US,
United States, +44, United States,
e=tdmaske@southernco.com
Reason: I am approving this document
Location:
Date: 2022-05-11 10:58:05:00



REPORT OF LABORATORY ANALYSIS

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



Total Metals ICP

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	722568	WMWGREAP_1358
BC06389	722568	WMWGREAP_1358
BC06390	722568	WMWGREAP_1358
BC06391	722568	WMWGREAP_1358
BC06392	722568	WMWGREAP_1358
BC06393	722568	WMWGREAP_1358
BC06394	722568	WMWGREAP_1358
BC06395	722568	WMWGREAP_1358
BC06396	722568	WMWGREAP_1358
BC06397	722568	WMWGREAP_1358
BC06398	722569	WMWGREAP_1358
BC06399	722569	WMWGREAP_1358
BC06400	722569	WMWGREAP_1358
BC06401	722569	WMWGREAP_1358
BC06402	722569	WMWGREAP_1358
BC06403	722569	WMWGREAP_1358
BC06404	722569	WMWGREAP_1358
BC06405	722569	WMWGREAP_1358
BC06485	722569	WMWGREAP_1358
BC06486	722569	WMWGREAP_1358
BC06487	722570	WMWGREAP_1358
BC06488	722570	WMWGREAP_1358
BC06489	722570	WMWGREAP_1358
BC06490	722570	WMWGREAP_1358
BC06491	722570	WMWGREAP_1358
BC06492	722570	WMWGREAP_1358
BC06493	722570	WMWGREAP_1358
BC06494	722570	WMWGREAP_1358
BC06495	722570	WMWGREAP_1358
BC06496	722570	WMWGREAP_1358
BC06497	722571	WMWGREAP_1358

BC06498	722571	WMWGREAP_1358
BC06499	722571	WMWGREAP_1358
BC06500	722571	WMWGREAP_1358
BC06745	723307	WMWGREAP_1358
BC06746	723307	WMWGREAP_1358
BC06747	723307	WMWGREAP_1358
BC06748	723307	WMWGREAP_1358
BC06749	723307	WMWGREAP_1358
BC06750	723307	WMWGREAP_1358
BC06751	723307	WMWGREAP_1358
BC06752	723307	WMWGREAP_1358
BC06753	723307	WMWGREAP_1358
BC06971	723307	WMWGREAP_1358
BC06972	723308	WMWGREAP_1358
BC06973	723308	WMWGREAP_1358
BC06974	723308	WMWGREAP_1358
BC06975	723308	WMWGREAP_1358
BC06976	723308	WMWGREAP_1358
BC06977	723308	WMWGREAP_1358
BC06978	723308	WMWGREAP_1358
BC06979	723308	WMWGREAP_1358
BC06980	723308	WMWGREAP_1358
BC06981	723308	WMWGREAP_1358
BC06982	723309	WMWGREAP_1358
BC06983	723309	WMWGREAP_1358
BC06984	723309	WMWGREAP_1358
BC06985	723309	WMWGREAP_1358

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.

- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC06486 Calcium MS/MSD spike levels were <30% of the sample concentrations.
 - BC06496 Calcium MS/MSD spike levels were <30% of the sample concentrations.
 - BC06971 Calcium, Iron, & Magnesium MS/MSD spike levels were <30% of the sample concentrations.
 - BC06981 Calcium & Iron MS/MSD spike levels were <30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06395	Calcium, Iron	20.3
BC06401	Calcium, Iron	20.3
BC06402	Calcium, Iron	20.3
BC06403	Calcium, Sodium	20.3
BC06405	Calcium, Sodium	20.3
BC06485	Calcium	20.3
BC06486	Calcium	20.3
BC06487	Calcium	20.3
BC06488	Sodium	20.3
BC06489	Calcium	20.3
BC06490	Calcium	20.3
BC06491	Calcium, Iron, Sodium	20.3
BC06492	Calcium, Iron, Sodium	20.3

Case Narrative

BC06494	Calcium, Sodium	20.3
BC06495	Calcium	20.3
BC06498	Calcium	20.3
BC06746	Calcium, Sodium	50.75
BC06746	Iron	101.5
BC06748	Calcium, Iron	20.3
BC06750	Calcium, Iron	20.3
BC06751	Calcium, Iron	20.3
BC06752	Calcium, Iron, Sodium	20.3
BC06753	Calcium, Iron	20.3
BC06971	Calcium, Iron, Magnesium	20.3
BC06972	Calcium, Iron	20.3
BC06973	Calcium, Iron	20.3
BC06974	Calcium, Iron, Sodium	20.3
BC06975	Calcium	20.3
BC06977	Calcium, Iron	20.3
BC06978	Calcium, Iron, Sodium	20.3
BC06980	Iron	20.3
BC06981	Calcium, Iron	20.3
BC06982	Calcium, Iron	20.3
BC06983	Calcium, Iron	20.3
BC06984	Calcium, Iron	20.3

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	722137	WMWGREAP_1358
BC06389	722137	WMWGREAP_1358
BC06391	722137	WMWGREAP_1358
BC06392	722137	WMWGREAP_1358
BC06393	722137	WMWGREAP_1358
BC06394	722137	WMWGREAP_1358
BC06395	722137	WMWGREAP_1358
BC06397	722137	WMWGREAP_1358
BC06398	722137	WMWGREAP_1358
BC06399	722137	WMWGREAP_1358
BC06400	722138	WMWGREAP_1358
BC06401	722138	WMWGREAP_1358
BC06402	722138	WMWGREAP_1358
BC06403	722138	WMWGREAP_1358
BC06405	722138	WMWGREAP_1358
BC06485	722138	WMWGREAP_1358
BC06486	722138	WMWGREAP_1358
BC06487	722138	WMWGREAP_1358
BC06488	722138	WMWGREAP_1358
BC06489	722138	WMWGREAP_1358
BC06490	722139	WMWGREAP_1358
BC06491	722139	WMWGREAP_1358
BC06492	722139	WMWGREAP_1358
BC06493	722139	WMWGREAP_1358
BC06494	722139	WMWGREAP_1358
BC06495	722139	WMWGREAP_1358
BC06496	722139	WMWGREAP_1358
BC06497	722139	WMWGREAP_1358
BC06498	722139	WMWGREAP_1358
BC06499	722139	WMWGREAP_1358
BC06500	722140	WMWGREAP_1358

BC06745	723313	WMWGREAP_1358
BC06746	723313	WMWGREAP_1358
BC06747	723313	WMWGREAP_1358
BC06748	723313	WMWGREAP_1358
BC06750	723313	WMWGREAP_1358
BC06751	723313	WMWGREAP_1358
BC06752	723313	WMWGREAP_1358
BC06753	723313	WMWGREAP_1358
BC06971	723313	WMWGREAP_1358
BC06972	723313	WMWGREAP_1358
BC06973	723314	WMWGREAP_1358
BC06974	723314	WMWGREAP_1358
BC06975	723314	WMWGREAP_1358
BC06977	723314	WMWGREAP_1358
BC06978	723314	WMWGREAP_1358
BC06980	723314	WMWGREAP_1358
BC06981	723314	WMWGREAP_1358
BC06982	723314	WMWGREAP_1358
BC06983	723314	WMWGREAP_1358
BC06984	723314	WMWGREAP_1358
BC06985	723315	WMWGREAP_1358

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC06489 Calcium MS/MSD spike levels were <30% of the sample concentrations.
 - BC06972 Iron MS/MSD spike levels were <30% of the sample concentrations.
 - BC06984 Calcium & Iron MS/MSD spike levels were <30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
- 7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06395	Calcium, Iron	20.3
BC06401	Calcium, Iron	20.3
BC06402	Calcium, Iron	20.3
BC06403	Calcium, Sodium	20.3
BC06405	Calcium, Sodium	20.3
BC06485	Calcium	20.3
BC06486	Calcium	20.3
BC06487	Calcium	20.3
BC06488	Sodium	20.3
BC06489	Calcium	20.3
BC06490	Calcium	20.3
BC06491	Calcium, Iron, Sodium	20.3
BC06492	Calcium, Iron, Sodium	20.3
BC06494	Calcium, Sodium	20.3
BC06495	Calcium	20.3
BC06496	Calcium	20.3
BC06497	Calcium	20.3
BC06498	Calcium	20.3

Case Narrative

BC06746	Calcium, Sodium	50.75
BC06746	Iron	101.5
BC06748	Calcium, Iron	20.3
BC06750	Calcium, Iron	20.3
BC06751	Calcium, Iron	20.3
BC06752	Calcium, Iron, Sodium	20.3
BC06753	Calcium, Iron	20.3
BC06971	Calcium, Iron, Magnesium	20.3
BC06972	Calcium, Iron	20.3
BC06973	Calcium, Iron	20.3
BC06974	Calcium, Iron, Sodium	20.3
BC06975	Calcium	20.3
BC06977	Calcium, iron	20.3
BC06978	Calcium, Iron, Sodium	20.3
BC06980	Iron	20.3
BC06981	Calcium, Iron	20.3
BC06982	Calcium, Iron	20.3
BC06983	Calcium, Iron	20.3
BC06984	Calcium, Iron	20.3

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	722664	WMWGREAP_1358
BC06389	722664	WMWGREAP_1358
BC06390	722664	WMWGREAP_1358
BC06391	722664	WMWGREAP_1358
BC06392	722664	WMWGREAP_1358
BC06393	722664	WMWGREAP_1358
BC06394	722664	WMWGREAP_1358
BC06395	722664	WMWGREAP_1358
BC06396	722664	WMWGREAP_1358
BC06397	722664	WMWGREAP_1358
BC06398	722665	WMWGREAP_1358
BC06399	722665	WMWGREAP_1358
BC06400	722665	WMWGREAP_1358
BC06401	722665	WMWGREAP_1358
BC06402	722665	WMWGREAP_1358
BC06403	722665	WMWGREAP_1358
BC06404	722665	WMWGREAP_1358
BC06405	722665	WMWGREAP_1358
BC06485	723042	WMWGREAP_1358
BC06486	723042	WMWGREAP_1358
BC06487	723042	WMWGREAP_1358
BC06488	723042	WMWGREAP_1358
BC06489	723042	WMWGREAP_1358
BC06490	723042	WMWGREAP_1358
BC06491	723042	WMWGREAP_1358
BC06492	723042	WMWGREAP_1358
BC06493	723042	WMWGREAP_1358
BC06494	723042	WMWGREAP_1358
BC06495	723043	WMWGREAP_1358
BC06496	723043	WMWGREAP_1358
BC06497	723043	WMWGREAP_1358

BC06498	723043	WMWGREAP_1358
BC06499	723043	WMWGREAP_1358
BC06500	723043	WMWGREAP_1358
BC06745	723117	WMWGREAP_1358
BC06746	723117	WMWGREAP_1358
BC06747	723117	WMWGREAP_1358
BC06748	723117	WMWGREAP_1358
BC06749	723117	WMWGREAP_1358
BC06750	723117	WMWGREAP_1358
BC06751	723117	WMWGREAP_1358
BC06752	723117	WMWGREAP_1358
BC06753	723117	WMWGREAP_1358
BC06971	723453	WMWGREAP_1358
BC06972	723453	WMWGREAP_1358
BC06973	723453	WMWGREAP_1358
BC06974	723453	WMWGREAP_1358
BC06975	723453	WMWGREAP_1358
BC06976	723453	WMWGREAP_1358
BC06977	723453	WMWGREAP_1358
BC06978	723453	WMWGREAP_1358
BC06979	723453	WMWGREAP_1358
BC06980	723453	WMWGREAP_1358
BC06981	723454	WMWGREAP_1358
BC06982	723454	WMWGREAP_1358
BC06983	723454	WMWGREAP_1358
BC06984	723454	WMWGREAP_1358
BC06985	723454	WMWGREAP_1358

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.

- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC06500 Manganese MS/MSD spike levels were <30% of the sample concentrations.
 - BC06753 Manganese MS/MSD spike levels were <30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06395	Manganese	5.075
BC06401	Manganese	10.15
BC06402	Manganese	10.15
BC06405	Manganese	5.075
BC06485	Manganese	10.15
BC06486	Manganese	10.15
BC06487	Manganese	5.075
BC06490	Manganese	5.075
BC06491	Manganese	10.15
BC06492	Manganese	10.15
BC06495	Manganese	5.075
BC06496	Manganese	5.075
BC06497	Manganese	5.075
BC06498	Manganese	5.075

Case Narrative

BC06500	Manganese	5.075
BC06746	Manganese	92.365
BC06748	Manganese	10.15
BC06750	Manganese	5.075
BC06751	Manganese	5.075
BC06752	Manganese	5.075
BC06753	Manganese	5.075
BC06971	Manganese	92.365
BC06973	Manganese	10.15
BC06974	Manganese	10.15
BC06975	Manganese	5.075
BC06977	Manganese	5.075
BC06978	Manganese	5.075
BC06981	Manganese	5.075
BC06982	Manganese	5.075
BC06983	Manganese	5.075
BC06984	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	722606	WMWGREAP_1358
BC06389	722606	WMWGREAP_1358
BC06391	722606	WMWGREAP_1358
BC06392	722606	WMWGREAP_1358
BC06393	722606	WMWGREAP_1358
BC06394	722606	WMWGREAP_1358
BC06395	722606	WMWGREAP_1358
BC06397	722606	WMWGREAP_1358
BC06398	722606	WMWGREAP_1358
BC06399	722606	WMWGREAP_1358
BC06400	722607	WMWGREAP_1358
BC06401	722607	WMWGREAP_1358
BC06402	722607	WMWGREAP_1358
BC06403	722607	WMWGREAP_1358
BC06405	722607	WMWGREAP_1358
BC06485	722983	WMWGREAP_1358
BC06486	722983	WMWGREAP_1358
BC06487	722983	WMWGREAP_1358
BC06488	722983	WMWGREAP_1358
BC06489	722983	WMWGREAP_1358
BC06490	722983	WMWGREAP_1358
BC06491	722983	WMWGREAP_1358
BC06492	722983	WMWGREAP_1358
BC06493	722983	WMWGREAP_1358
BC06494	722983	WMWGREAP_1358
BC06495	722984	WMWGREAP_1358
BC06496	722984	WMWGREAP_1358
BC06497	722984	WMWGREAP_1358
BC06498	722984	WMWGREAP_1358
BC06499	722984	WMWGREAP_1358
BC06500	722984	WMWGREAP_1358

BC06745	723088	WMWGREAP_1358
BC06746	723088	WMWGREAP_1358
BC06747	723088	WMWGREAP_1358
BC06748	723088	WMWGREAP_1358
BC06750	723088	WMWGREAP_1358
BC06751	723088	WMWGREAP_1358
BC06752	723088	WMWGREAP_1358
BC06753	723088	WMWGREAP_1358
BC06971	723464	WMWGREAP_1358
BC06972	723464	WMWGREAP_1358
BC06973	723464	WMWGREAP_1358
BC06974	723464	WMWGREAP_1358
BC06975	723464	WMWGREAP_1358
BC06977	723464	WMWGREAP_1358
BC06978	723464	WMWGREAP_1358
BC06980	723464	WMWGREAP_1358
BC06981	723479	WMWGREAP_1358
BC06982	723479	WMWGREAP_1358
BC06983	723479	WMWGREAP_1358
BC06984	723479	WMWGREAP_1358
BC06985	723479	WMWGREAP_1358

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC06500 Manganese MS/MSD spike levels were <30% of the sample concentrations.
 - BC06753 Manganese MS/MSD spike levels were <30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06395	Manganese	5.075
BC06401	Manganese	10.15
BC06402	Manganese	10.15
BC06405	Manganese	5.075
BC06485	Manganese	10.15
BC06486	Manganese	10.15
BC06487	Manganese	5.075
BC06490	Manganese	5.075
BC06491	Manganese	10.15
BC06492	Manganese	10.15
BC06495	Manganese	5.075
BC06496	Manganese	5.075
BC06497	Manganese	5.075
BC06498	Manganese	5.075
BC06500	Manganese	5.075
BC06746	Manganese	92.365
BC06748	Manganese	10.15
BC06750	Manganese	5.075
BC06751	Manganese	5.075
BC06752	Manganese	5.075
BC06753	Manganese	5.075

Case Narrative

BC06971	Manganese	92.365
BC06973	Manganese	10.15
BC06974	Manganese	10.15
BC06975	Manganese	5.075
BC06977	Manganese	5.075
BC06978	Manganese	5.075
BC06981	Manganese	5.075
BC06982	Manganese	5.075
BC06983	Manganese	5.075
BC06984	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Mercury

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	722237	WMWGREAP_1358
BC06389	722237	WMWGREAP_1358
BC06390	722237	WMWGREAP_1358
BC06391	722237	WMWGREAP_1358
BC06392	722237	WMWGREAP_1358
BC06393	722237	WMWGREAP_1358
BC06394	722237	WMWGREAP_1358
BC06395	722237	WMWGREAP_1358
BC06396	722237	WMWGREAP_1358
BC06397	722237	WMWGREAP_1358
BC06398	722238	WMWGREAP_1358
BC06399	722238	WMWGREAP_1358
BC06400	722238	WMWGREAP_1358
BC06401	722238	WMWGREAP_1358
BC06402	722238	WMWGREAP_1358
BC06403	722238	WMWGREAP_1358
BC06404	722238	WMWGREAP_1358
BC06405	722238	WMWGREAP_1358
BC06485	722238	WMWGREAP_1358
BC06486	722238	WMWGREAP_1358
BC06487	722239	WMWGREAP_1358
BC06488	722239	WMWGREAP_1358
BC06489	722239	WMWGREAP_1358
BC06490	722239	WMWGREAP_1358
BC06491	722239	WMWGREAP_1358
BC06492	722239	WMWGREAP_1358
BC06493	722239	WMWGREAP_1358
BC06494	722239	WMWGREAP_1358
BC06495	722239	WMWGREAP_1358
BC06496	722239	WMWGREAP_1358
BC06497	722240	WMWGREAP_1358

BC06498	722240	WMWGREAP_1358
BC06499	722240	WMWGREAP_1358
BC06500	722240	WMWGREAP_1358
BC06745	722922	WMWGREAP_1358
BC06746	722922	WMWGREAP_1358
BC06747	722922	WMWGREAP_1358
BC06748	722922	WMWGREAP_1358
BC06749	722922	WMWGREAP_1358
BC06750	722922	WMWGREAP_1358
BC06751	722922	WMWGREAP_1358
BC06752	722922	WMWGREAP_1358
BC06753	722922	WMWGREAP_1358
BC06971	723168	WMWGREAP_1358
BC06972	723168	WMWGREAP_1358
BC06973	723168	WMWGREAP_1358
BC06974	723168	WMWGREAP_1358
BC06975	723168	WMWGREAP_1358
BC06976	723168	WMWGREAP_1358
BC06977	723168	WMWGREAP_1358
BC06978	723168	WMWGREAP_1358
BC06979	723168	WMWGREAP_1358
BC06980	723168	WMWGREAP_1358
BC06981	723169	WMWGREAP_1358
BC06982	723169	WMWGREAP_1358
BC06983	723169	WMWGREAP_1358
BC06984	723169	WMWGREAP_1358
BC06985	723169	WMWGREAP_1358

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.

- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	722034	WMWGREAP_1358
BC06389	722034	WMWGREAP_1358
BC06390	722034	WMWGREAP_1358
BC06391	722034	WMWGREAP_1358
BC06392	722034	WMWGREAP_1358
BC06393	722034	WMWGREAP_1358
BC06394	722034	WMWGREAP_1358
BC06395	722034	WMWGREAP_1358
BC06396	722034	WMWGREAP_1358
BC06397	722034	WMWGREAP_1358
BC06398	722035	WMWGREAP_1358
BC06399	722035	WMWGREAP_1358
BC06400	722035	WMWGREAP_1358
BC06401	722035	WMWGREAP_1358
BC06402	722035	WMWGREAP_1358
BC06403	722035	WMWGREAP_1358
BC06404	722035	WMWGREAP_1358
BC06405	722035	WMWGREAP_1358
BC06485	722035	WMWGREAP_1358
BC06486	722035	WMWGREAP_1358
BC06487	722828	WMWGREAP_1358
BC06488	722828	WMWGREAP_1358
BC06489	722828	WMWGREAP_1358
BC06490	722828	WMWGREAP_1358
BC06491	722828	WMWGREAP_1358
BC06492	722828	WMWGREAP_1358
BC06493	722828	WMWGREAP_1358
BC06494	722828	WMWGREAP_1358
BC06495	722828	WMWGREAP_1358
BC06496	722828	WMWGREAP_1358
BC06497	722829	WMWGREAP_1358

BC06498	722829	WMWGREAP_1358
BC06499	722829	WMWGREAP_1358
BC06500	722829	WMWGREAP_1358
BC06745	723383	WMWGREAP_1358
BC06746	723383	WMWGREAP_1358
BC06747	723383	WMWGREAP_1358
BC06748	723383	WMWGREAP_1358
BC06749	723383	WMWGREAP_1358
BC06750	723383	WMWGREAP_1358
BC06751	723383	WMWGREAP_1358
BC06752	723383	WMWGREAP_1358
BC06753	723383	WMWGREAP_1358
BC06971	723383	WMWGREAP_1358
BC06972	723384	WMWGREAP_1358
BC06973	723384	WMWGREAP_1358
BC06974	723384	WMWGREAP_1358
BC06975	723384	WMWGREAP_1358
BC06976	723384	WMWGREAP_1358
BC06977	723384	WMWGREAP_1358
BC06978	723384	WMWGREAP_1358
BC06979	723384	WMWGREAP_1358
BC06980	723384	WMWGREAP_1358
BC06981	723384	WMWGREAP_1358
BC06982	723385	WMWGREAP_1358
BC06983	723385	WMWGREAP_1358
BC06984	723385	WMWGREAP_1358
BC06985	723385	WMWGREAP_1358

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
 - Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met, except for the following:
 - BC06971
 - BC06985
7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	722335	WMWGREAP_1358
BC06389	722335	WMWGREAP_1358
BC06390	722335	WMWGREAP_1358
BC06391	722335	WMWGREAP_1358
BC06392	722335	WMWGREAP_1358
BC06393	722335	WMWGREAP_1358
BC06394	722335	WMWGREAP_1358
BC06395	722335	WMWGREAP_1358
BC06396	722335	WMWGREAP_1358
BC06397	722335	WMWGREAP_1358
BC06398	722336	WMWGREAP_1358
BC06399	722336	WMWGREAP_1358
BC06400	722336	WMWGREAP_1358
BC06401	722336	WMWGREAP_1358
BC06402	722336	WMWGREAP_1358
BC06403	722336	WMWGREAP_1358
BC06404	722336	WMWGREAP_1358
BC06405	722336	WMWGREAP_1358
BC06485	723064	WMWGREAP_1358
BC06486	723064	WMWGREAP_1358
BC06487	723064	WMWGREAP_1358
BC06488	723064	WMWGREAP_1358
BC06489	723064	WMWGREAP_1358
BC06490	723064	WMWGREAP_1358
BC06491	723064	WMWGREAP_1358
BC06492	723064	WMWGREAP_1358
BC06493	723064	WMWGREAP_1358
BC06494	723064	WMWGREAP_1358
BC06495	723065	WMWGREAP_1358
BC06496	723065	WMWGREAP_1358
BC06497	723065	WMWGREAP_1358

BC06498	723065	WMWGREAP_1358
BC06499	723065	WMWGREAP_1358
BC06500	723065	WMWGREAP_1358
BC06745	723065	WMWGREAP_1358
BC06746	723065	WMWGREAP_1358
BC06747	723065	WMWGREAP_1358
BC06748	723065	WMWGREAP_1358
BC06749	723066	WMWGREAP_1358
BC06750	723066	WMWGREAP_1358
BC06751	723066	WMWGREAP_1358
BC06752	723066	WMWGREAP_1358
BC06753	723066	WMWGREAP_1358
BC06971	723557	WMWGREAP_1358
BC06972	723557	WMWGREAP_1358
BC06973	723557	WMWGREAP_1358
BC06974	723557	WMWGREAP_1358
BC06975	723557	WMWGREAP_1358
BC06976	723557	WMWGREAP_1358
BC06977	723557	WMWGREAP_1358
BC06978	723557	WMWGREAP_1358
BC06979	723557	WMWGREAP_1358
BC06980	723557	WMWGREAP_1358
BC06981	723558	WMWGREAP_1358
BC06982	723558	WMWGREAP_1358
BC06983	723558	WMWGREAP_1358
BC06984	723558	WMWGREAP_1358
BC06985	723558	WMWGREAP_1358

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

Revision 5

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	722073	WMWGREAP_1358
BC06389	722073	WMWGREAP_1358
BC06390	722073	WMWGREAP_1358
BC06391	722073	WMWGREAP_1358
BC06392	722073	WMWGREAP_1358
BC06393	722073	WMWGREAP_1358
BC06394	722073	WMWGREAP_1358
BC06395	722073	WMWGREAP_1358
BC06396	722073	WMWGREAP_1358
BC06397	722074	WMWGREAP_1358
BC06398	722074	WMWGREAP_1358
BC06399	722074	WMWGREAP_1358
BC06400	722074	WMWGREAP_1358
BC06401	722074	WMWGREAP_1358
BC06402	722074	WMWGREAP_1358
BC06403	722074	WMWGREAP_1358
BC06404	722074	WMWGREAP_1358
BC06405	722074	WMWGREAP_1358
BC06485	722275	WMWGREAP_1358
BC06486	722275	WMWGREAP_1358
BC06487	722275	WMWGREAP_1358
BC06488	722275	WMWGREAP_1358
BC06489	722275	WMWGREAP_1358
BC06490	722275	WMWGREAP_1358
BC06491	722275	WMWGREAP_1358
BC06492	722275	WMWGREAP_1358
BC06493	722275	WMWGREAP_1358
BC06494	722275	WMWGREAP_1358
BC06495	722276	WMWGREAP_1358
BC06496	722276	WMWGREAP_1358
BC06497	722276	WMWGREAP_1358

BC06498	722276	WMWGREAP_1358
BC06499	722276	WMWGREAP_1358
BC06500	722276	WMWGREAP_1358
BC06745	722853	WMWGREAP_1358
BC06746	722853	WMWGREAP_1358
BC06747	722853	WMWGREAP_1358
BC06748	722853	WMWGREAP_1358
BC06749	722853	WMWGREAP_1358
BC06750	722853	WMWGREAP_1358
BC06751	722853	WMWGREAP_1358
BC06752	722853	WMWGREAP_1358
BC06753	722853	WMWGREAP_1358
BC06971	723171	WMWGREAP_1358
BC06972	723171	WMWGREAP_1358
BC06973	723171	WMWGREAP_1358
BC06974	723171	WMWGREAP_1358
BC06975	723420	WMWGREAP_1358
BC06976	723420	WMWGREAP_1358
BC06977	723420	WMWGREAP_1358
BC06978	723420	WMWGREAP_1358
BC06979	723420	WMWGREAP_1358
BC06980	723171	WMWGREAP_1358
BC06981	723171	WMWGREAP_1358
BC06982	723171	WMWGREAP_1358
BC06983	723171	WMWGREAP_1358
BC06984	723420	WMWGREAP_1358
BC06985	723420	WMWGREAP_1358

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.

- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC06388
 - BC06389
 - BC06390
 - BC06396
 - BC06404
 - BC06749
 - BC06976
 - BC06979

Anions

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	722666, 722600, 723495	WMWGREAP_1358
BC06389	722666, 722600, 723495	WMWGREAP_1358
BC06390	722666, 722600, 723495	WMWGREAP_1358
BC06391	722666, 722600, 723495	WMWGREAP_1358
BC06392	722666, 722600, 723495	WMWGREAP_1358
BC06393	722666, 722600, 723495	WMWGREAP_1358
BC06394	722666, 722600, 723495	WMWGREAP_1358
BC06395	722666, 722600, 723495	WMWGREAP_1358
BC06396	722666, 722600, 723495	WMWGREAP_1358
BC06397	722666, 722600, 723496	WMWGREAP_1358
BC06398	722667, 722601, 723496	WMWGREAP_1358
BC06399	722667, 722601, 723496	WMWGREAP_1358
BC06400	722667, 722601, 723496	WMWGREAP_1358
BC06401	722667, 722601, 723496	WMWGREAP_1358
BC06402	722667, 722601, 723496	WMWGREAP_1358
BC06403	722667, 722601, 723496	WMWGREAP_1358
BC06404	722667, 722601, 723496	WMWGREAP_1358
BC06405	722667, 722601, 723496	WMWGREAP_1358
BC06485	722667, 722601, 723496	WMWGREAP_1358
BC06486	722667, 722601, 723497	WMWGREAP_1358
BC06487	722668, 722602, 723497	WMWGREAP_1358
BC06488	722668, 722602, 723497	WMWGREAP_1358
BC06489	722668, 722602, 723497	WMWGREAP_1358
BC06490	722668, 722602, 723497	WMWGREAP_1358
BC06491	722668, 722602, 723497	WMWGREAP_1358
BC06492	722668, 722602, 723497	WMWGREAP_1358
BC06493	722668, 722602, 723497	WMWGREAP_1358
BC06494	722668, 722602, 723497	WMWGREAP_1358
BC06495	722668, 722602, 723497	WMWGREAP_1358
BC06496	722668, 722602, 723498	WMWGREAP_1358
BC06497	722669, 722603, 723498	WMWGREAP_1358

BC06498	722669, 722603, 723498	WMWGREAP_1358
BC06499	722669, 722603, 723498	WMWGREAP_1358
BC06500	722669, 722603, 723498	WMWGREAP_1358
BC06745	722874, 722876, 723498	WMWGREAP_1358
BC06746	722874, 722876, 723498	WMWGREAP_1358
BC06747	722874, 722876, 723498	WMWGREAP_1358
BC06748	722874, 722876, 723498	WMWGREAP_1358
BC06749	722874, 722876, 723498	WMWGREAP_1358
BC06750	722874, 722876, 723499	WMWGREAP_1358
BC06751	722874, 722876, 723499	WMWGREAP_1358
BC06752	722874, 722876, 723499	WMWGREAP_1358
BC06753	722874, 722876, 723499	WMWGREAP_1358
BC06971	723566, 723686, 723501	WMWGREAP_1358
BC06972	723566, 723686, 723501	WMWGREAP_1358
BC06973	723566, 723686, 723501	WMWGREAP_1358
BC06974	723566, 723686, 723501	WMWGREAP_1358
BC06975	723566, 723686, 723501	WMWGREAP_1358
BC06976	723566, 723686, 723501	WMWGREAP_1358
BC06977	723566, 723686, 723501	WMWGREAP_1358
BC06978	723566, 723686, 723501	WMWGREAP_1358
BC06979	723566, 723686, 723501	WMWGREAP_1358
BC06980	723566, 723686, 723501	WMWGREAP_1358
BC06981	723567, 723687, 723502	WMWGREAP_1358
BC06982	723567, 723687, 723502	WMWGREAP_1358
BC06983	723567, 723687, 723502	WMWGREAP_1358
BC06984	723567, 723687, 723502	WMWGREAP_1358
BC06985	723567, 723687, 723502	WMWGREAP_1358

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06395	Sulfate	20
BC06401	Sulfate	32
BC06402	Sulfate	32
BC06403	Chloride, Sulfate	5, 16
BC06405	Chloride, Sulfate	8, 5
BC06485	Sulfate	32
BC06486	Sulfate	16
BC06487	Sulfate	10
BC06489	Sulfate	2
BC06490	Sulfate	20
BC06491	Chloride, Sulfate	25, 10
BC06492	Chloride, Sulfate	25, 10
BC06493	Chloride, Sulfate	2, 4
BC06494	Chloride, Sulfate	5, 10
BC06495	Sulfate	10
BC06496	Sulfate	8
BC06497	Sulfate	8
BC06498	Sulfate	8
BC06500	Sulfate	5
BC06746	Chloride, Sulfate	8, 40
BC06747	Sulfate	5
BC06748	Sulfate	25
BC06750	Sulfate	10
BC06751	Sulfate	8

Case Narrative

BC06752	Sulfate	3
BC06753	Sulfate	16
BC06971	Sulfate	40
BC06972	Chloride	2
BC06973	Sulfate	4
BC06974	Chloride, Sulfate	4, 5
BC06975	Sulfate	8
BC06977	Sulfate	2
BC06978	Chloride	2
BC06980	Sulfate	4
BC06981	Sulfate	5
BC06982	Sulfate	8
BC06984	Sulfate	16

8. The raw data results are shown with dilution factors included.

Alkalinity

Greene Co. Ash Pond

WMWGREAP_1358

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06388	723133,723134	WMWGREAP_1358
BC06389	723133,723134	WMWGREAP_1358
BC06391	723133,723134	WMWGREAP_1358
BC06392	723133,723134	WMWGREAP_1358
BC06393	723133,723134	WMWGREAP_1358
BC06394	723133,723134	WMWGREAP_1358
BC06395	723133,723134	WMWGREAP_1358
BC06397	723269,723270	WMWGREAP_1358
BC06398	723269,723270	WMWGREAP_1358
BC06399	723269,723270	WMWGREAP_1358
BC06400	723269,723270	WMWGREAP_1358
BC06401	723269,723270	WMWGREAP_1358
BC06402	723269,723270	WMWGREAP_1358
BC06403	723416,723417	WMWGREAP_1358
BC06405	723416,723417	WMWGREAP_1358
BC06485	723416,723417	WMWGREAP_1358
BC06486	723416,723417	WMWGREAP_1358
BC06487	723416,723417	WMWGREAP_1358
BC06488	723577,723578	WMWGREAP_1358
BC06489	723577,723578	WMWGREAP_1358
BC06490	723577,723578	WMWGREAP_1358
BC06491	723416,723417	WMWGREAP_1358
BC06492	723416,723417	WMWGREAP_1358
BC06493	723416,723417	WMWGREAP_1358
BC06494	723416,723417	WMWGREAP_1358
BC06495	723416,723417	WMWGREAP_1358
BC06496	723577,723578	WMWGREAP_1358
BC06497	723577,723578	WMWGREAP_1358
BC06498	723577,723578	WMWGREAP_1358
BC06499	723577,723578	WMWGREAP_1358
BC06500	723577,723578	WMWGREAP_1358

BC06745	723573,723574	WMWGREAP_1358
BC06746	723573,723574	WMWGREAP_1358
BC06747	723573,723574	WMWGREAP_1358
BC06748	723573,723574	WMWGREAP_1358
BC06750	723573,723574	WMWGREAP_1358
BC06751	723801,723802	WMWGREAP_1358
BC06752	723801,723802	WMWGREAP_1358
BC06753	723801,723802	WMWGREAP_1358
BC06971	723801,723802	WMWGREAP_1358
BC06972	723801,723802	WMWGREAP_1358
BC06973	724179,724180	WMWGREAP_1358
BC06974	724179,724180	WMWGREAP_1358
BC06975	724179,724180	WMWGREAP_1358
BC06977	724179,724180	WMWGREAP_1358
BC06978	724179,724180	WMWGREAP_1358
BC06980	723801,723802	WMWGREAP_1358
BC06981	723801,723802	WMWGREAP_1358
BC06982	724179,724180	WMWGREAP_1358
BC06983	724179,724180	WMWGREAP_1358
BC06984	724179,724180	WMWGREAP_1358
BC06985	724179,724180	WMWGREAP_1358

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times, except for the following:
 - BC06973
 - BC06974
 - BC06975
 - BC06977
 - BC06978
 - BC06982
 - BC06983
 - BC06984
 - BC06985

6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:

- BC06401
- BC06402
- BC06403
- BC06405
- BC06485
- BC06486
- BC06491
- BC06492
- BC06494
- BC06746
- BC06748
- BC06750
- BC06752
- BC06971
- BC06974

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP
Collected: 3/28/22 11:52
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06388

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 09:26		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 09:26		1.015	0.172	mg/L	0.070035	0.406	J
* Iron, Total	4/5/22 07:00	4/8/22 09:26		1.015	0.0137	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/8/22 09:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 09:26		1.015	0.257	mg/L	0.021315	0.406	J
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:26		1	8.35	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 09:26		1.015	3.90	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 09:26		1.015	0.897	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:30		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:25	4/7/22 12:30		1.015	0.173	mg/L	0.070035	0.406	J
* Iron, Dissolved	4/4/22 08:25	4/7/22 12:30		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:30		1.015	0.257	mg/L	0.021315	0.406	J
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:30		1	8.43	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:30		1.015	3.94	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:30		1.015	0.923	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 13:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 13:30		1.015	0.0331	mg/L	0.006090	0.01015	
* Arsenic, Total	3/30/22 12:09	3/31/22 13:30		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/30/22 12:09	3/31/22 13:30		1.015	0.0337	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 13:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 13:30		1.015	0.000162	mg/L	0.000068	0.000203	J
* Chromium, Total	3/30/22 12:09	3/31/22 13:30		1.015	0.000393	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 13:30		1.015	0.000787	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 13:30		1.015	0.0126	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 13:30		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 13:30		1.015	0.735	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP
Collected: 3/28/22 11:52
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06388

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 13:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	0.0149	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	0.0312	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	0.000159	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	0.000286	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	0.000819	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	0.0126	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	0.740	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/30/22 14:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 17:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 15:51	4/4/22 15:51		1	0.307	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/7/22 13:00	4/7/22 16:12		1	0.84	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	Not Detected	mg/L		25	U
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		1	
Carbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 12:01	3/31/22 12:01		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP

Collected: 3/28/22 11:52

Customer ID:

Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06388

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:23	4/4/22 09:23		1	1.24	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:35	4/4/22 12:35		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 11:38	4/11/22 11:38		1	1.29	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/28/22 11:47	3/28/22 11:47			12.50	uS/cm			FA
pH	3/28/22 11:47	3/28/22 11:47			4.67	SU			FA
Temperature	3/28/22 11:47	3/28/22 11:47			17.65	C			FA
Turbidity	3/28/22 11:47	3/28/22 11:47			1.34	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 11:52

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BC06388

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 11:52
Customer ID:
Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BC06388

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BC06396	Sulfate	mg/L	0.224	2.0	20.0	20.7	20.5	19.6	18.0 to 22.0	104	80.0 to 120	0.971	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 11:52

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BC06388

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0		
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0		

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 11:52

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BC06388

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06395	Alkalinity, Total as CaCO3	mg/L					174	51.4	45.0 to 55.0			4.49	10.0
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06395	Solids, Dissolved	mg/L	1.00	25.0			630	49.0	40.0 to 60.0			0.957	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29 DUP

Location Code: WMWGREAP
Collected: 3/28/22 11:52
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06389

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 09:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 09:29		1.015	0.169	mg/L	0.070035	0.406	J
* Iron, Total	4/5/22 07:00	4/8/22 09:29		1.015	0.0121	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/8/22 09:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 09:29		1.015	0.259	mg/L	0.021315	0.406	J
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:29		1	8.39	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 09:29		1.015	3.92	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 09:29		1.015	0.894	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:25	4/7/22 12:33		1.015	0.182	mg/L	0.070035	0.406	J
* Iron, Dissolved	4/4/22 08:25	4/7/22 12:33		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:33		1.015	0.256	mg/L	0.021315	0.406	J
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:33		1	8.45	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:33		1.015	3.95	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:33		1.015	0.934	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 13:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 13:34		1.015	0.0305	mg/L	0.006090	0.01015	
* Arsenic, Total	3/30/22 12:09	3/31/22 13:34		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/30/22 12:09	3/31/22 13:34		1.015	0.0320	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 13:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 13:34		1.015	0.000121	mg/L	0.000068	0.000203	J
* Chromium, Total	3/30/22 12:09	3/31/22 13:34		1.015	0.000351	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 13:34		1.015	0.000689	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 13:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 13:34		1.015	0.0121	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 13:34		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 13:34		1.015	0.685	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29 DUP

Location Code: WMWGREAP
Collected: 3/28/22 11:52
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06389

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 13:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 13:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	0.0148	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	0.0329	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	0.0000944	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	0.000250	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	0.000920	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	0.0124	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	0.708	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/30/22 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 17:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 15:53	4/4/22 15:53		1	0.302	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/7/22 13:00	4/7/22 16:12		1	0.60	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	Not Detected	mg/L		25	U
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		1	
Carbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 12:21	3/31/22 12:21		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-29 DUP

Location Code: WMWGREAP
Collected: 3/28/22 11:52
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06389

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:24	4/4/22 09:24		1	1.24	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:37	4/4/22 12:37		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 11:39	4/11/22 11:39		1	1.24	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/28/22 11:47	3/28/22 11:47			12.50	uS/cm			FA
pH	3/28/22 11:47	3/28/22 11:47			4.67	SU			FA
Temperature	3/28/22 11:47	3/28/22 11:47			17.65	C			FA
Turbidity	3/28/22 11:47	3/28/22 11:47			1.34	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 11:52

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-29 DUP

Laboratory ID Number: BC06389

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 11:52
Customer ID:
Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-29 DUP

Laboratory ID Number: BC06389

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BC06396	Sulfate	mg/L	0.224	2.0	20.0	20.7	20.5	19.6	18.0 to 22.0	104	80.0 to 120	0.971	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 11:52

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-29 DUP

Laboratory ID Number: BC06389

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0		
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0		

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 11:52

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-29 DUP

Laboratory ID Number: BC06389

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06395	Alkalinity, Total as CaCO3	mg/L					174	51.4	45.0 to 55.0			4.49	10.0
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06395	Solids, Dissolved	mg/L	1.00	25.0			630	49.0	40.0 to 60.0			0.957	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 TDS result did not meet the 2.5 mg residue requirement, but 150mL of sample was filtered.

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/28/22 12:22
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06390

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 09:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 09:31		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/5/22 07:00	4/8/22 09:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/8/22 09:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 09:31		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:31		1	Not Detected	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 09:31		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/5/22 07:00	4/8/22 09:31		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 13:37		1.015	0.000253	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 17:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 15:55	4/4/22 15:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/28/22 12:22
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06390

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 12:37	3/31/22 12:37		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:25	4/4/22 09:25		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:38	4/4/22 12:38		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 11:40	4/11/22 11:40		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/28/22 12:22

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06390

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/28/22 12:22

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06390

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC06396	Sulfate	mg/L	0.224	2.0	20.0	20.7	20.5	19.6	18.0 to 22.0	104	80.0 to 120	0.971	20.0
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/28/22 12:22

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06390

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06395	Solids, Dissolved	mg/L	1.00	25.0			630	49.0	40.0 to 60.0			0.957	10.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 3/28/22 13:25
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06391

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 09:34		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 09:34		1.015	0.542	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/8/22 09:34		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/8/22 09:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 09:34		1.015	0.164	mg/L	0.021315	0.406	J
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:34		1	10.6	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 09:34		1.015	4.94	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 09:34		1.015	4.76	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:25	4/7/22 12:36		1.015	0.532	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:25	4/7/22 12:36		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:36		1.015	0.161	mg/L	0.021315	0.406	J
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:36		1	10.6	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:36		1.015	4.96	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:36		1.015	4.63	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 13:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 13:41		1.015	0.00974	mg/L	0.006090	0.01015	J
* Arsenic, Total	3/30/22 12:09	3/31/22 13:41		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/30/22 12:09	3/31/22 13:41		1.015	0.0286	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 13:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 13:41		1.015	0.000396	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 13:41		1.015	0.0000700	mg/L	0.000068	0.000203	J
* Lead, Total	3/30/22 12:09	3/31/22 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 13:41		1.015	0.00447	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 13:41		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 13:41		1.015	0.662	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 3/28/22 13:25
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06391

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 13:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	0.0286	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	0.000389	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	0.0000726	mg/L	0.000068	0.000203	J
* Lead, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	0.00431	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	0.654	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/30/22 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 15:57	4/4/22 15:57		1	0.625	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/7/22 13:00	4/7/22 16:12		1	3.96	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	27.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	3.95	mg/L			
Carbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 12:54	3/31/22 12:54		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP

Collected: 3/28/22 13:25

Customer ID:

Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06391

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:27	4/4/22 09:27		1	4.12	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:39	4/4/22 12:39		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 11:41	4/11/22 11:41		1	0.951	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/28/22 13:21	3/28/22 13:21			26.46	uS/cm			FA
pH	3/28/22 13:21	3/28/22 13:21			4.93	SU			FA
Temperature	3/28/22 13:21	3/28/22 13:21			17.81	C			FA
Turbidity	3/28/22 13:21	3/28/22 13:21			0.61	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 13:25
Customer ID:
Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BC06391

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 13:25
Customer ID:
Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BC06391

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BC06396	Sulfate	mg/L	0.224	2.0	20.0	20.7	20.5	19.6	18.0 to 22.0	104	80.0 to 120	0.971	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 13:25

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BC06391

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 13:25

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BC06391

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06395	Alkalinity, Total as CaCO3	mg/L					174	51.4	45.0 to 55.0			4.49	10.0
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06395	Solids, Dissolved	mg/L	1.00	25.0			630	49.0	40.0 to 60.0			0.957	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 3/28/22 14:14
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06392

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 09:37		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 09:37		1.015	1.37	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/8/22 09:37		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/8/22 09:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 09:37		1.015	0.586	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:37		1	10.4	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 09:37		1.015	4.86	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 09:37		1.015	3.56	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:25	4/7/22 12:39		1.015	1.46	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:25	4/7/22 12:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:39		1.015	0.622	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:39		1	10.6	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:39		1.015	4.95	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:39		1.015	3.60	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 13:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 13:45		1.015	0.0131	mg/L	0.006090	0.01015	
* Arsenic, Total	3/30/22 12:09	3/31/22 13:45		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/30/22 12:09	3/31/22 13:45		1.015	0.0625	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 13:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 13:45		1.015	0.000182	mg/L	0.000068	0.000203	J
* Chromium, Total	3/30/22 12:09	3/31/22 13:45		1.015	0.000306	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 13:45		1.015	0.000142	mg/L	0.000068	0.000203	J
* Lead, Total	3/30/22 12:09	3/31/22 13:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 13:45		1.015	0.0135	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 13:45		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 13:45		1.015	0.812	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 3/28/22 14:14
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06392

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 13:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 13:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	0.0119	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	0.0613	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	0.000172	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	0.000205	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	0.000160	mg/L	0.000068	0.000203	J
* Lead, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	0.0137	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	0.765	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/30/22 14:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 15:59	4/4/22 15:59		1	1.05	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/7/22 13:00	4/7/22 16:12		1	3.24	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	32.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	3.24	mg/L			
Carbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 13:14	3/31/22 13:14		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 3/28/22 14:14
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06392

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:28	4/4/22 09:28		1	1.96	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:40	4/4/22 12:40		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 11:43	4/11/22 11:43		1	6.24	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/28/22 14:12	3/28/22 14:12			33.75	uS/cm			FA
pH	3/28/22 14:12	3/28/22 14:12			4.73	SU			FA
Temperature	3/28/22 14:12	3/28/22 14:12			18.72	C			FA
Turbidity	3/28/22 14:12	3/28/22 14:12			0.78	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 14:14

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BC06392

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 14:14
Customer ID:
Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BC06392

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BC06396	Sulfate	mg/L	0.224	2.0	20.0	20.7	20.5	19.6	18.0 to 22.0	104	80.0 to 120	0.971	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 14:14

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BC06392

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 14:14

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BC06392

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06395	Alkalinity, Total as CaCO3	mg/L					174	51.4	45.0 to 55.0			4.49	10.0
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06395	Solids, Dissolved	mg/L	1.00	25.0			630	49.0	40.0 to 60.0			0.957	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 3/28/22 15:03
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06393

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/5/22 07:00	4/8/22 09:40		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/5/22 07:00	4/8/22 09:40		1.015	1.94	mg/L	0.070035	0.406		
* Iron, Total	4/5/22 07:00	4/8/22 09:40		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	4/5/22 07:00	4/8/22 09:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/5/22 07:00	4/8/22 09:40		1.015	1.74	mg/L	0.021315	0.406		
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:40		1	7.96	mg/L				
Silicon, Total	4/5/22 07:00	4/8/22 09:40		1.015	3.72	mg/L	0.02030	0.25375		
* Sodium, Total	4/5/22 07:00	4/8/22 09:40		1.015	1.36	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:41		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 12:41		1.015	1.98	mg/L	0.070035	0.406		
* Iron, Dissolved	4/4/22 08:25	4/7/22 12:41		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:41		1.015	1.78	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:41		1	7.92	mg/L				
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:41		1.015	3.70	mg/L	0.02030	0.25375		
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:41		1.015	1.35	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/30/22 12:09	3/31/22 13:49		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/30/22 12:09	3/31/22 13:49		1.015	0.0607	mg/L	0.006090	0.01015		
* Arsenic, Total	3/30/22 12:09	3/31/22 13:49		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	3/30/22 12:09	3/31/22 13:49		1.015	0.186	mg/L	0.000102	0.000203		
* Beryllium, Total	3/30/22 12:09	3/31/22 13:49		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/30/22 12:09	3/31/22 13:49		1.015	0.000429	mg/L	0.000068	0.000203		
* Chromium, Total	3/30/22 12:09	3/31/22 13:49		1.015	0.000723	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/30/22 12:09	3/31/22 13:49		1.015	0.000517	mg/L	0.000068	0.000203		
* Lead, Total	3/30/22 12:09	3/31/22 13:49		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/30/22 12:09	3/31/22 13:49		1.015	0.0719	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/30/22 12:09	3/31/22 13:49		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/30/22 12:09	3/31/22 13:49		1.015	1.70	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 3/28/22 15:03
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06393

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 13:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 13:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	0.0590	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	0.184	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	0.000379	mg/L	0.000068	0.000203	
* Chromium, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	0.000634	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	0.000508	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	0.0734	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	1.74	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/30/22 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:00	4/4/22 16:00		1	0.945	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/7/22 13:00	4/7/22 16:12		1	0.56	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	38.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		1	
Carbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 13:31	3/31/22 13:31		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP

Collected: 3/28/22 15:03

Customer ID:

Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06393

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:29	4/4/22 09:29		1	1.35	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:42	4/4/22 12:42		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 11:44	4/11/22 11:44		1	11.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/28/22 15:00	3/28/22 15:00			44.28	uS/cm			FA
pH	3/28/22 15:00	3/28/22 15:00			4.69	SU			FA
Temperature	3/28/22 15:00	3/28/22 15:00			18.26	C			FA
Turbidity	3/28/22 15:00	3/28/22 15:00			0.59	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 15:03

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BC06393

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 15:03
Customer ID:
Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BC06393

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BC06396	Sulfate	mg/L	0.224	2.0	20.0	20.7	20.5	19.6	18.0 to 22.0	104	80.0 to 120	0.971	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 15:03

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BC06393

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 15:03

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BC06393

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06395	Alkalinity, Total as CaCO3	mg/L					174	51.4	45.0 to 55.0			4.49	10.0
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06395	Solids, Dissolved	mg/L	1.00	25.0			630	49.0	40.0 to 60.0			0.957	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP
Collected: 3/28/22 16:18
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06394

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 09:43		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 09:43		1.015	26.0	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/8/22 09:43		1.015	0.0159	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/8/22 09:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 09:43		1.015	2.12	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:43		1	7.51	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 09:43		1.015	3.51	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 09:43		1.015	2.33	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:44		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:25	4/7/22 12:44		1.015	26.3	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:25	4/7/22 12:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:44		1.015	2.16	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:44		1	7.51	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:44		1.015	3.51	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:44		1.015	2.36	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 13:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 13:52		1.015	0.0118	mg/L	0.006090	0.01015	
* Arsenic, Total	3/30/22 12:09	3/31/22 13:52		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/30/22 12:09	3/31/22 13:52		1.015	0.0264	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 13:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 13:52		1.015	0.000337	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/30/22 12:09	3/31/22 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 13:52		1.015	0.000308	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 13:52		1.015	0.000124	mg/L	0.000102	0.000203	J
* Potassium, Total	3/30/22 12:09	3/31/22 13:52		1.015	0.650	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP
Collected: 3/28/22 16:18
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06394

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 13:52		1.015	0.000989	mg/L	0.000508	0.001015	J
* Thallium, Total	3/30/22 12:09	3/31/22 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	0.0292	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	0.650	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	0.00108	mg/L	0.000508	0.001015	
* Thallium, Dissolved	3/30/22 12:09	3/30/22 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:02	4/4/22 16:02		1	0.219	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/7/22 13:00	4/7/22 16:12		1	78.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	96.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	78.3	mg/L			
Carbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 13:51	3/31/22 13:51		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP

Collected: 3/28/22 16:18

Customer ID:

Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06394

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:30	4/4/22 09:30		1	1.09	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:43	4/4/22 12:43		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 11:45	4/11/22 11:45		1	11.8	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/28/22 16:16	3/28/22 16:16			144.72	uS/cm			FA
pH	3/28/22 16:16	3/28/22 16:16			6.08	SU			FA
Temperature	3/28/22 16:16	3/28/22 16:16			17.73	C			FA
Turbidity	3/28/22 16:16	3/28/22 16:16			1.04	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:18

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BC06394

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 16:18
Customer ID:
Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BC06394

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BC06396	Sulfate	mg/L	0.224	2.0	20.0	20.7	20.5	19.6	18.0 to 22.0	104	80.0 to 120	0.971	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:18

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BC06394

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:18

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BC06394

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC06395	Alkalinity, Total as CaCO3	mg/L					174	51.4	45.0 to 55.0			4.49	10.0
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06395	Solids, Dissolved	mg/L	1.00	25.0			630	49.0	40.0 to 60.0			0.957	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP
Collected: 3/29/22 09:07
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06395

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 09:46		1.015	0.157	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 11:57		20.3	118	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 11:57		20.3	43.4	mg/L	0.1624	0.812	
* Lithium, Total	4/5/22 07:00	4/8/22 09:46		1.015	0.00867	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/5/22 07:00	4/8/22 09:46		1.015	19.9	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:46		1	15.1	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 09:46		1.015	7.05	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 09:46		1.015	21.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:47		1.015	0.162	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:06		20.3	123	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 15:06		20.3	41.5	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:47		1.015	0.00871	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:47		1.015	20.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:47		1	15.3	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:47		1.015	7.17	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:47		1.015	21.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 13:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 13:56		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/30/22 12:09	3/31/22 13:56		1.015	0.0110	mg/L	0.000081	0.000203	
* Barium, Total	3/30/22 12:09	3/31/22 13:56		1.015	0.0235	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 13:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 13:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 13:56		1.015	0.000366	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 13:56		1.015	0.0198	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 13:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 15:12		5.075	4.06	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/30/22 12:09	3/31/22 13:56		1.015	0.000790	mg/L	0.000102	0.000203	
* Potassium, Total	3/30/22 12:09	3/31/22 13:56		1.015	1.79	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP
Collected: 3/29/22 09:07
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06395

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 13:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 13:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	0.0107	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	0.0233	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	0.0205	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/31/22 11:59		5.075	4.05	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	0.000678	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	1.77	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/30/22 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:04	4/4/22 16:04		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/7/22 13:00	4/7/22 16:12		1	182	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	624	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	182	mg/L			
Carbonate Alkalinity, (calc.)	4/7/22 13:00	4/7/22 16:12		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 14:06	3/31/22 14:06		1	2.88	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP

Collected: 3/29/22 09:07

Customer ID:

Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06395

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:31	4/4/22 09:31		1	5.57	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:44	4/4/22 12:44		1	0.189	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:00	4/11/22 12:00		20	303	mg/L	12.0	40	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/29/22 09:04	3/29/22 09:04			846.53	uS/cm			FA
pH	3/29/22 09:04	3/29/22 09:04			6.36	SU			FA
Temperature	3/29/22 09:04	3/29/22 09:04			19.77	C			FA
Turbidity	3/29/22 09:04	3/29/22 09:04			2.74	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 09:07
Customer ID:
Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BC06395

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 09:07
Customer ID:
Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BC06395

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BC06396	Sulfate	mg/L	0.224	2.0	20.0	20.7	20.5	19.6	18.0 to 22.0	104	80.0 to 120	0.971	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 09:07

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BC06395

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 09:07

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BC06395

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06395	Alkalinity, Total as CaCO3	mg/L					174	51.4	45.0 to 55.0			4.49	10.0
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06395	Solids, Dissolved	mg/L	1.00	25.0			630	49.0	40.0 to 60.0			0.957	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-2

Location Code: WMWGREAPFB
Collected: 3/29/22 09:15
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06396

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	4/5/22 07:00	4/8/22 09:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 09:49		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/5/22 07:00	4/8/22 09:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/8/22 09:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 09:49		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:49		1	Not Detected	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 09:49		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/5/22 07:00	4/8/22 09:49		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 13:59		1.015	0.000254	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 13:59		1.015	0.000389	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: ELH						
* Nitrogen, Nitrate/Nitrite	4/4/22 16:06	4/4/22 16:06		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-2

Location Code: WMWGREAPFB
Collected: 3/29/22 09:15
Customer ID:
Submittal Date: 3/29/22 15:47

Laboratory ID Number: BC06396

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 14:25	3/31/22 14:25		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:33	4/4/22 09:33		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:45	4/4/22 12:45		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 11:47	4/11/22 11:47		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/29/22 09:15

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BC06396

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/29/22 09:15

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BC06396

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06396	Sulfate	mg/L	0.224	2.0	20.0	20.7	20.5	19.6	18.0 to 22.0	104	80.0 to 120	0.971	20.0
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/29/22 09:15

Customer ID:

Delivery Date: 3/29/22 15:47

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BC06396

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06395	Solids, Dissolved	mg/L	1.00	25.0			630	49.0	40.0 to 60.0			0.957	10.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP
Collected: 3/28/22 12:31
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06397

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 09:52		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 09:52		1.015	5.95	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/8/22 09:52		1.015	0.116	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/8/22 09:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 09:52		1.015	1.23	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 09:52		1	9.91	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 09:52		1.015	4.63	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 09:52		1.015	6.17	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:25	4/7/22 12:50		1.015	6.20	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:25	4/7/22 12:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:50		1.015	1.34	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:50		1	9.84	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:50		1.015	4.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:50		1.015	6.25	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 14:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 14:03		1.015	0.0347	mg/L	0.006090	0.01015	
* Arsenic, Total	3/30/22 12:09	3/31/22 14:03		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/30/22 12:09	3/31/22 14:03		1.015	0.0325	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 14:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 14:03		1.015	0.000392	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 14:03		1.015	0.000608	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 14:03		1.015	0.000146	mg/L	0.000068	0.000203	J
* Manganese, Total	3/30/22 12:09	3/31/22 14:03		1.015	0.00643	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 14:03		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 14:03		1.015	1.07	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP
Collected: 3/28/22 12:31
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06397

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 14:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	0.0312	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	0.000242	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	0.000554	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	0.00564	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	1.11	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/30/22 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:08	4/4/22 16:08		1	0.854	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/8/22 13:45	4/8/22 15:23		1	24.7	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	43.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	24.7	mg/L			
Carbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 14:42	3/31/22 14:42		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP

Collected: 3/28/22 12:31

Customer ID:

Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06397

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:34	4/4/22 09:34		1	6.00	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:46	4/4/22 12:46		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:10	4/11/22 12:10		1	3.34	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/28/22 12:28	3/28/22 12:28			66.43	uS/cm			FA
pH	3/28/22 12:28	3/28/22 12:28			5.05	SU			FA
Temperature	3/28/22 12:28	3/28/22 12:28			17.18	C			FA
Turbidity	3/28/22 12:28	3/28/22 12:28			3.36	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 12:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BC06397

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06397	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.134	0.133	0.0981	0.0850 to 0.115	99.3	70.0 to 130	0.749	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06397	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.0934	0.0951	0.0942	0.0850 to 0.115	93.4	70.0 to 130	1.80	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06397	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0978	0.0965	0.0978	0.0850 to 0.115	97.8	70.0 to 130	1.34	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06397	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.128	0.128	0.0984	0.0850 to 0.115	95.5	70.0 to 130	0.00	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06397	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0832	0.0943	0.0857	0.0850 to 0.115	83.2	70.0 to 130	12.5	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06397	Boron, Total	mg/L	0.000035	0.0650	1.00	1.03	1.02	1.03	0.850 to 1.15	103	70.0 to 130	0.976	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06397	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06397	Calcium, Total	mg/L	0.00137	0.152	5.00	10.7	10.7	4.90	4.25 to 5.75	95.0	70.0 to 130	0.00	20.0
BC06397	Chloride	mg/L	0.0011	1.00	10.0	16.8	17.3	10.2	9.00 to 11.0	108	80.0 to 120	2.93	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06397	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0971	0.0982	0.0979	0.0850 to 0.115	96.7	70.0 to 130	1.13	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06397	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.0999	0.102	0.103	0.0850 to 0.115	99.3	70.0 to 130	2.08	20.0
BC06397	Fluoride	mg/L	-0.0367	0.125	2.50	2.55	2.51	2.57	2.25 to 2.75	102	80.0 to 120	1.58	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 12:31
Customer ID:
Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BC06397

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06397	Iron, Total	mg/L	0.000296	0.0176	0.2	0.315	0.313	0.202	0.170 to 0.230	99.5	70.0 to 130	0.637	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06397	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0968	0.117	0.0986	0.0850 to 0.115	96.7	70.0 to 130	18.9	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06397	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.204	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06397	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	6.35	6.31	5.22	4.25 to 5.75	102	70.0 to 130	0.632	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06397	Manganese, Total	mg/L	0.0000175	0.0002	0.100	0.107	0.109	0.102	0.0850 to 0.115	101	70.0 to 130	1.85	20.0
BC06397	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00393	0.00383	0.00397	0.00340 to 0.00460	98.2	70.0 to 130	2.58	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06397	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0976	0.100	0.0986	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06397	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.8	10.9	10.1	8.50 to 11.5	97.3	70.0 to 130	0.922	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06397	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06397	Silicon, Total	mg/L	0.000001	0.0440	1.00	5.70	5.68	1.02	0.850 to 1.15	107	70.0 to 130	0.351	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06397	Sodium, Total	mg/L	0.000473	0.0660	5.00	11.3	11.3	5.22	4.25 to 5.75	103	70.0 to 130	0.00	20.0
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 12:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BC06397

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06397	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0953	0.114	0.0980	0.0850 to 0.115	95.3	70.0 to 130	17.9	20.0
BC06397	Total Organic Carbon	mg/L	0.280	1.00	10.0	9.83	10.3	9.77		98.3	80.0 to 120	4.67	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 12:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BC06397

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06402	Alkalinity, Total as CaCO3	mg/L					23.0	51.52	45.0 to 55.0			9.09	10.0
BC06397	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.90	0.837	1.94	1.80 to 2.20	102	90.0 to 110	2.01	15.0
BC06405	Solids, Dissolved	mg/L	1.00	25.0			744	49.0	40.0 to 60.0			1.90	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 3/28/22 13:28
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06398

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 10:06		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 10:06		1.015	2.21	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/8/22 10:06		1.015	0.00821	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/8/22 10:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 10:06		1.015	2.92	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:06		1	7.17	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 10:06		1.015	3.35	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 10:06		1.015	5.32	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:53		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:25	4/7/22 12:53		1.015	2.32	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:25	4/7/22 12:53		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:53		1.015	3.07	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:53		1	7.04	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:53		1.015	3.29	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:53		1.015	5.34	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 14:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 14:25		1.015	0.151	mg/L	0.006090	0.01015	
* Arsenic, Total	3/30/22 12:09	3/31/22 14:25		1.015	0.000147	mg/L	0.000081	0.000203	J
* Barium, Total	3/30/22 12:09	3/31/22 14:25		1.015	0.0773	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 14:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 14:25		1.015	0.000436	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 14:25		1.015	0.000992	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 14:25		1.015	0.000154	mg/L	0.000068	0.000203	J
* Manganese, Total	3/30/22 12:09	3/31/22 14:25		1.015	0.0176	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 14:25		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 14:25		1.015	3.87	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 3/28/22 13:28
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06398

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 14:25		1.015	0.000715	mg/L	0.000508	0.001015	J
* Thallium, Total	3/30/22 12:09	3/31/22 14:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	0.155	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	0.000144	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	0.0774	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	0.000306	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	0.00101	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	0.000141	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	0.0182	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	4.02	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	0.000592	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	3/30/22 12:09	3/30/22 14:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:17	4/4/22 16:17		1	3.60	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/8/22 13:45	4/8/22 15:23		1	1.92	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	57.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	1.92	mg/L			
Carbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 15:59	3/31/22 15:59		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 3/28/22 13:28
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06398

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:48	4/4/22 09:48		1	5.47	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:58	4/4/22 12:58		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:11	4/11/22 12:11		1	11.8	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/28/22 13:24	3/28/22 13:24			91.81	uS/cm			FA
pH	3/28/22 13:24	3/28/22 13:24			4.29	SU			FA
Temperature	3/28/22 13:24	3/28/22 13:24			18.20	C			FA
Turbidity	3/28/22 13:24	3/28/22 13:24			0.23	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 13:28
Customer ID:
Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BC06398

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06405	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.0956	0.0956	0.0981	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06405	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.105	0.101	0.0942	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06405	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0963	0.0990	0.0978	0.0850 to 0.115	96.2	70.0 to 130	2.76	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06405	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.205	0.203	0.0984	0.0850 to 0.115	101	70.0 to 130	0.980	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06405	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0840	0.0849	0.0857	0.0850 to 0.115	84.0	70.0 to 130	1.07	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06405	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.0966	0.0985	0.101	0.0850 to 0.115	96.6	70.0 to 130	1.95	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06405	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0965	0.0957	0.0979	0.0850 to 0.115	96.2	70.0 to 130	0.832	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06405	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.105	0.103	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.92	20.0
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 13:28

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BC06398

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06405	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0960	0.0985	0.0986	0.0850 to 0.115	96.0	70.0 to 130	2.57	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06405	Manganese, Total	mg/L	0.0000175	0.0002	0.100	1.61	1.62	0.102	0.0850 to 0.115	80.0	70.0 to 130	0.619	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06405	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0979	0.0974	0.0986	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06405	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.5	10.5	10.1	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06405	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 13:28

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BC06398

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec Limit		
BC06405	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0934	0.0960	0.0980	0.0850 to 0.115	93.4	70.0 to 130	2.75	20.0
BC06405	Total Organic Carbon	mg/L	0.420	1.00	10.0	11.3	11.6	10.1		95.9	80.0 to 120	2.62	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 13:28

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BC06398

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06402	Alkalinity, Total as CaCO3	mg/L					23.0	51.52	45.0 to 55.0			9.09	10.0
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06405	Solids, Dissolved	mg/L	1.00	25.0			744	49.0	40.0 to 60.0			1.90	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 3/28/22 14:24
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06399

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/5/22 07:00	4/8/22 10:09		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/5/22 07:00	4/8/22 10:09		1.015	9.61	mg/L	0.070035	0.406		
* Iron, Total	4/5/22 07:00	4/8/22 10:09		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	4/5/22 07:00	4/8/22 10:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/5/22 07:00	4/8/22 10:09		1.015	0.709	mg/L	0.021315	0.406		
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:09		1	11.7	mg/L				
Silicon, Total	4/5/22 07:00	4/8/22 10:09		1.015	5.46	mg/L	0.02030	0.25375		
* Sodium, Total	4/5/22 07:00	4/8/22 10:09		1.015	3.92	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	4/4/22 08:25	4/7/22 12:56		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 12:56		1.015	9.73	mg/L	0.070035	0.406		
* Iron, Dissolved	4/4/22 08:25	4/7/22 12:56		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 12:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 12:56		1.015	0.743	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 12:56		1	11.6	mg/L				
Silicon, Dissolved	4/4/22 08:25	4/7/22 12:56		1.015	5.40	mg/L	0.02030	0.25375		
* Sodium, Dissolved	4/4/22 08:25	4/7/22 12:56		1.015	3.98	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/30/22 12:09	3/31/22 14:28		1.015	0.00656	mg/L	0.006090	0.01015	J	
* Arsenic, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	3/30/22 12:09	3/31/22 14:28		1.015	0.0132	mg/L	0.000102	0.000203		
* Beryllium, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/30/22 12:09	3/31/22 14:28		1.015	0.000420	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/30/22 12:09	3/31/22 14:28		1.015	0.712	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 3/28/22 14:24
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06399

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	0.0135	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	0.000336	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	0.690	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/30/22 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:19	4/4/22 16:19		1	0.385	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/8/22 13:45	4/8/22 15:23		1	29.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	51.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	29.2	mg/L			
Carbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 16:18	3/31/22 16:18		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP

Collected: 3/28/22 14:24

Customer ID:

Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06399

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:49	4/4/22 09:49		1	3.98	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 12:59	4/4/22 12:59		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:13	4/11/22 12:13		1	2.55	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/28/22 14:21	3/28/22 14:21			73.10	uS/cm			FA
pH	3/28/22 14:21	3/28/22 14:21			5.01	SU			FA
Temperature	3/28/22 14:21	3/28/22 14:21			20.08	C			FA
Turbidity	3/28/22 14:21	3/28/22 14:21			0.41	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 14:24
Customer ID:
Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BC06399

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06399	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.0984	0.0990	0.0996	0.0850 to 0.115	98.4	70.0 to 130	0.608	20.0
BC06405	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.0956	0.0956	0.0981	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC06399	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.0922	0.0949	0.0936	0.0850 to 0.115	92.2	70.0 to 130	2.89	20.0
BC06405	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.105	0.101	0.0942	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BC06399	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0965	0.0983	0.102	0.0850 to 0.115	96.5	70.0 to 130	1.85	20.0
BC06405	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0963	0.0990	0.0978	0.0850 to 0.115	96.2	70.0 to 130	2.76	20.0
BC06399	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.108	0.111	0.0993	0.0850 to 0.115	94.5	70.0 to 130	2.74	20.0
BC06405	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.205	0.203	0.0984	0.0850 to 0.115	101	70.0 to 130	0.980	20.0
BC06399	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0905	0.0908	0.0932	0.0850 to 0.115	90.5	70.0 to 130	0.331	20.0
BC06405	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0840	0.0849	0.0857	0.0850 to 0.115	84.0	70.0 to 130	1.07	20.0
BC06399	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.04	1.03	1.04	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06399	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06405	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.0966	0.0985	0.101	0.0850 to 0.115	96.6	70.0 to 130	1.95	20.0
BC06399	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	15.0	14.7	4.96	4.25 to 5.75	105	70.0 to 130	2.02	20.0
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0
BC06399	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.100	0.0998	0.101	0.0850 to 0.115	99.7	70.0 to 130	0.200	20.0
BC06405	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0965	0.0957	0.0979	0.0850 to 0.115	96.2	70.0 to 130	0.832	20.0
BC06399	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06405	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.105	0.103	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.92	20.0
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0
BC06399	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.199	0.200	0.202	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 14:24

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BC06399

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06399	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0985	0.0992	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.708	20.0
BC06405	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0960	0.0985	0.0986	0.0850 to 0.115	96.0	70.0 to 130	2.57	20.0
BC06399	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.207	0.210	0.201	0.170 to 0.230	104	70.0 to 130	1.44	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06399	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	6.09	6.16	5.26	4.25 to 5.75	107	70.0 to 130	1.14	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06399	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06405	Manganese, Total	mg/L	0.0000175	0.0002	0.100	1.61	1.62	0.102	0.0850 to 0.115	80.0	70.0 to 130	0.619	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06399	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0989	0.0994	0.0997	0.0850 to 0.115	98.9	70.0 to 130	0.504	20.0
BC06405	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0979	0.0974	0.0986	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BC06399	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.5	10.7	10.2	8.50 to 11.5	98.1	70.0 to 130	1.89	20.0
BC06405	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.5	10.5	10.1	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC06399	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06405	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06399	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	6.48	6.44	1.03	0.850 to 1.15	108	70.0 to 130	0.619	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06399	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.17	9.29	5.10	4.25 to 5.75	104	70.0 to 130	1.30	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06399	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 14:24

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BC06399

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06405	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0934	0.0960	0.0980	0.0850 to 0.115	93.4	70.0 to 130	2.75	20.0
BC06405	Total Organic Carbon	mg/L	0.420	1.00	10.0	11.3	11.6	10.1		95.9	80.0 to 120	2.62	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 14:24

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BC06399

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06402	Alkalinity, Total as CaCO3	mg/L					23.0	51.52	45.0 to 55.0			9.09	10.0
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06405	Solids, Dissolved	mg/L	1.00	25.0			744	49.0	40.0 to 60.0			1.90	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 3/28/22 15:35
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06400

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 10:12		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/8/22 10:12		1.015	10.8	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/8/22 10:12		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/8/22 10:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 10:12		1.015	1.90	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:12		1	10.1	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 10:12		1.015	4.70	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 10:12		1.015	14.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:11		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:25	4/7/22 13:11		1.015	11.3	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:25	4/7/22 13:11		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:11		1.015	1.94	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:11		1	9.99	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:11		1.015	4.67	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 13:11		1.015	14.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 14:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 14:32		1.015	0.0131	mg/L	0.006090	0.01015	
* Arsenic, Total	3/30/22 12:09	3/31/22 14:32		1.015	0.000129	mg/L	0.000081	0.000203	J
* Barium, Total	3/30/22 12:09	3/31/22 14:32		1.015	0.0481	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 14:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 14:32		1.015	0.000354	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 14:32		1.015	0.00117	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 14:32		1.015	0.00627	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 14:32		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 14:32		1.015	0.844	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 3/28/22 15:35
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06400

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 14:32		1.015	0.000600	mg/L	0.000508	0.001015	J
* Thallium, Total	3/30/22 12:09	3/31/22 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	0.00876	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	0.0481	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	0.000319	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	0.00122	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	0.00603	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	0.874	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	0.000697	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	3/30/22 12:09	3/31/22 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:21	4/4/22 16:21		1	1.54	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/8/22 13:45	4/8/22 15:23		1	32.9	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	88.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	32.9	mg/L			
Carbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 16:39	3/31/22 16:39		1	1.28	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP

Collected: 3/28/22 15:35

Customer ID:

Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06400

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:50	4/4/22 09:50		1	3.52	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:01	4/4/22 13:01		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:14	4/11/22 12:14		1	27.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/28/22 15:32	3/28/22 15:32			139.06	uS/cm			FA
pH	3/28/22 15:32	3/28/22 15:32			4.44	SU			FA
Temperature	3/28/22 15:32	3/28/22 15:32			20.96	C			FA
Turbidity	3/28/22 15:32	3/28/22 15:32			1.92	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 15:35

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BC06400

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06405	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.100	0.0959	0.0996	0.0850 to 0.115	100	70.0 to 130	4.19	20.0
BC06405	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.0956	0.0956	0.0981	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC06405	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.101	0.0978	0.0936	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC06405	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.105	0.101	0.0942	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BC06405	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0989	0.0993	0.102	0.0850 to 0.115	98.7	70.0 to 130	0.404	20.0
BC06405	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0963	0.0990	0.0978	0.0850 to 0.115	96.2	70.0 to 130	2.76	20.0
BC06405	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.202	0.199	0.0993	0.0850 to 0.115	92.0	70.0 to 130	1.50	20.0
BC06405	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.205	0.203	0.0984	0.0850 to 0.115	101	70.0 to 130	0.980	20.0
BC06405	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0931	0.0915	0.0932	0.0850 to 0.115	93.1	70.0 to 130	1.73	20.0
BC06405	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0840	0.0849	0.0857	0.0850 to 0.115	84.0	70.0 to 130	1.07	20.0
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06405	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.0965	0.0971	0.102	0.0850 to 0.115	96.5	70.0 to 130	0.620	20.0
BC06405	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.0966	0.0985	0.101	0.0850 to 0.115	96.6	70.0 to 130	1.95	20.0
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0
BC06405	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.0981	0.0942	0.101	0.0850 to 0.115	97.8	70.0 to 130	4.06	20.0
BC06405	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0965	0.0957	0.0979	0.0850 to 0.115	96.2	70.0 to 130	0.832	20.0
BC06405	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.106	0.102	0.104	0.0850 to 0.115	99.6	70.0 to 130	3.85	20.0
BC06405	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.105	0.103	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.92	20.0
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/28/22 15:35
Customer ID:
Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BC06400

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06405	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0986	0.0971	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BC06405	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0960	0.0985	0.0986	0.0850 to 0.115	96.0	70.0 to 130	2.57	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06405	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	1.60	1.64	0.103	0.0850 to 0.115	90.0	70.0 to 130	2.47	20.0
BC06405	Manganese, Total	mg/L	0.0000175	0.0002	0.100	1.61	1.62	0.102	0.0850 to 0.115	80.0	70.0 to 130	0.619	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06405	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0968	0.0950	0.0997	0.0850 to 0.115	96.8	70.0 to 130	1.88	20.0
BC06405	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0979	0.0974	0.0986	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BC06405	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.8	10.4	10.2	8.50 to 11.5	99.9	70.0 to 130	3.77	20.0
BC06405	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.5	10.5	10.1	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC06405	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC06405	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06405	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.0968	0.0959	0.102	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 15:35

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BC06400

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec Limit	Prec Limit	
BC06405	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0934	0.0960	0.0980	0.0850 to 0.115	93.4	70.0 to 130	2.75	20.0
BC06405	Total Organic Carbon	mg/L	0.420	1.00	10.0	11.3	11.6	10.1		95.9	80.0 to 120	2.62	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 15:35

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BC06400

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06402	Alkalinity, Total as CaCO3	mg/L					23.0	51.52	45.0 to 55.0			9.09	10.0
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06405	Solids, Dissolved	mg/L	1.00	25.0			744	49.0	40.0 to 60.0			1.90	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 3/28/22 16:31
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06401

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 10:15		1.015	0.125	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:00		20.3	157	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 12:00		20.3	48.5	mg/L	0.1624	0.812	
* Lithium, Total	4/5/22 07:00	4/8/22 10:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 10:15		1.015	23.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:15		1	10.6	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 10:15		1.015	4.96	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 10:15		1.015	33.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:13		1.015	0.123	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:09		20.3	152	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 15:09		20.3	46.7	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:13		1.015	24.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:13		1	10.7	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:13		1.015	4.98	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 13:13		1.015	33.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 14:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 14:36		1.015	0.0398	mg/L	0.006090	0.01015	
* Arsenic, Total	3/30/22 12:09	3/31/22 14:36		1.015	0.00381	mg/L	0.000081	0.000203	
* Barium, Total	3/30/22 12:09	3/31/22 14:36		1.015	0.0301	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 14:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 14:36		1.015	0.000115	mg/L	0.000068	0.000203	J
* Chromium, Total	3/30/22 12:09	3/31/22 14:36		1.015	0.000304	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 14:36		1.015	0.0309	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 14:36		1.015	0.000665	mg/L	0.000068	0.000203	
* Manganese, Total	3/30/22 12:09	3/31/22 15:15		10.15	6.02	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 14:36		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 14:36		1.015	5.82	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 3/28/22 16:31
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06401

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 14:36		1.015	0.000585	mg/L	0.000508	0.001015	J
* Thallium, Total	3/30/22 12:09	3/31/22 14:36		1.015	0.000150	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	0.0468	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	0.00423	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	0.0345	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	0.000130	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	0.000350	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	0.0324	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	0.000459	mg/L	0.000068	0.000203	
* Manganese, Dissolved	3/30/22 12:09	3/31/22 12:03		10.15	6.30	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	6.22	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	0.000616	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	3/30/22 12:09	3/31/22 11:31		1.015	0.000133	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 18:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:23	4/4/22 16:23		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/8/22 13:45	4/8/22 15:23		1	26.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	868	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	26.2	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 16:57	3/31/22 16:57		1	1.79	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 3/28/22 16:31
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06401

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:51	4/4/22 09:51		1	11.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:02	4/4/22 13:02		1	0.105	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:25	4/11/22 12:25		32	563	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/28/22 16:28	3/28/22 16:28			1136.48	uS/cm			FA
pH	3/28/22 16:28	3/28/22 16:28			5.32	SU			FA
Temperature	3/28/22 16:28	3/28/22 16:28			19.67	C			FA
Turbidity	3/28/22 16:28	3/28/22 16:28			2.91	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BC06401

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC06405	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.100	0.0959	0.0996	0.0850 to 0.115	100	70.0 to 130	4.19	20.0	
BC06405	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.0956	0.0956	0.0981	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0	
BC06405	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.101	0.0978	0.0936	0.0850 to 0.115	101	70.0 to 130	3.22	20.0	
BC06405	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.105	0.101	0.0942	0.0850 to 0.115	105	70.0 to 130	3.88	20.0	
BC06405	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0989	0.0993	0.102	0.0850 to 0.115	98.7	70.0 to 130	0.404	20.0	
BC06405	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0963	0.0990	0.0978	0.0850 to 0.115	96.2	70.0 to 130	2.76	20.0	
BC06405	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.202	0.199	0.0993	0.0850 to 0.115	92.0	70.0 to 130	1.50	20.0	
BC06405	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.205	0.203	0.0984	0.0850 to 0.115	101	70.0 to 130	0.980	20.0	
BC06405	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0931	0.0915	0.0932	0.0850 to 0.115	93.1	70.0 to 130	1.73	20.0	
BC06405	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0840	0.0849	0.0857	0.0850 to 0.115	84.0	70.0 to 130	1.07	20.0	
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0	
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0	
BC06405	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.0965	0.0971	0.102	0.0850 to 0.115	96.5	70.0 to 130	0.620	20.0	
BC06405	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.0966	0.0985	0.101	0.0850 to 0.115	96.6	70.0 to 130	1.95	20.0	
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0	
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0	
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0	
BC06405	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.0981	0.0942	0.101	0.0850 to 0.115	97.8	70.0 to 130	4.06	20.0	
BC06405	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0965	0.0957	0.0979	0.0850 to 0.115	96.2	70.0 to 130	0.832	20.0	
BC06405	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.106	0.102	0.104	0.0850 to 0.115	99.6	70.0 to 130	3.85	20.0	
BC06405	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.105	0.103	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.92	20.0	
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0	
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BC06401

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06405	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0986	0.0971	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BC06405	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0960	0.0985	0.0986	0.0850 to 0.115	96.0	70.0 to 130	2.57	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06405	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	1.60	1.64	0.103	0.0850 to 0.115	90.0	70.0 to 130	2.47	20.0
BC06405	Manganese, Total	mg/L	0.0000175	0.0002	0.100	1.61	1.62	0.102	0.0850 to 0.115	80.0	70.0 to 130	0.619	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06405	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0968	0.0950	0.0997	0.0850 to 0.115	96.8	70.0 to 130	1.88	20.0
BC06405	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0979	0.0974	0.0986	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BC06405	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.8	10.4	10.2	8.50 to 11.5	99.9	70.0 to 130	3.77	20.0
BC06405	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.5	10.5	10.1	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC06405	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC06405	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06405	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.0968	0.0959	0.102	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BC06401

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec Limit		
BC06405	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0934	0.0960	0.0980	0.0850 to 0.115	93.4	70.0 to 130	2.75	20.0
BC06405	Total Organic Carbon	mg/L	0.420	1.00	10.0	11.3	11.6	10.1		95.9	80.0 to 120	2.62	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BC06401

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06402	Alkalinity, Total as CaCO3	mg/L					23.0	51.52	45.0 to 55.0			9.09	10.0
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06405	Solids, Dissolved	mg/L	1.00	25.0			744	49.0	40.0 to 60.0			1.90	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2 DUP

Location Code: WMWGREAP
Collected: 3/28/22 16:31
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06402

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 10:18		1.015	0.127	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:03		20.3	164	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 12:03		20.3	49.3	mg/L	0.1624	0.812	
* Lithium, Total	4/5/22 07:00	4/8/22 10:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 10:18		1.015	23.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:18		1	10.5	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 10:18		1.015	4.90	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 10:18		1.015	33.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:16		1.015	0.0991	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:12		20.3	148	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 15:12		20.3	44.3	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:16		1.015	24.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:16		1	10.7	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:16		1.015	4.98	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 13:16		1.015	34.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 14:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 14:39		1.015	0.0273	mg/L	0.006090	0.01015	
* Arsenic, Total	3/30/22 12:09	3/31/22 14:39		1.015	0.00326	mg/L	0.000081	0.000203	
* Barium, Total	3/30/22 12:09	3/31/22 14:39		1.015	0.0310	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 14:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 14:39		1.015	0.000156	mg/L	0.000068	0.000203	J
* Chromium, Total	3/30/22 12:09	3/31/22 14:39		1.015	0.000354	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 14:39		1.015	0.0324	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 14:39		1.015	0.000588	mg/L	0.000068	0.000203	
* Manganese, Total	3/30/22 12:09	3/31/22 15:19		10.15	5.99	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 14:39		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 14:39		1.015	5.97	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2 DUP

Location Code: WMWGREAP
Collected: 3/28/22 16:31
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06402

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 14:39		1.015	0.000600	mg/L	0.000508	0.001015	J
* Thallium, Total	3/30/22 12:09	3/31/22 14:39		1.015	0.000158	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	0.0330	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	0.00323	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	0.0309	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	0.000159	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	0.000310	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	0.0331	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	0.000497	mg/L	0.000068	0.000203	
* Manganese, Dissolved	3/30/22 12:09	3/31/22 12:06		10.15	6.10	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	6.27	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	0.000592	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	3/30/22 12:09	3/31/22 11:35		1.015	0.000140	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:24	4/4/22 16:24		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/8/22 13:45	4/8/22 15:23		1	21.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	892	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	21.0	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/8/22 13:45	4/8/22 15:23		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 17:16	3/31/22 17:16		1	1.76	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-2 DUP

Location Code: WMWGREAP
Collected: 3/28/22 16:31
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06402

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:53	4/4/22 09:53		1	11.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:03	4/4/22 13:03		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:26	4/11/22 12:26		32	553	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/28/22 16:28	3/28/22 16:28			1136.48	uS/cm			FA
pH	3/28/22 16:28	3/28/22 16:28			5.32	SU			FA
Temperature	3/28/22 16:28	3/28/22 16:28			19.67	C			FA
Turbidity	3/28/22 16:28	3/28/22 16:28			2.91	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-2 DUP

Laboratory ID Number: BC06402

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06405	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.100	0.0959	0.0996	0.0850 to 0.115	100	70.0 to 130	4.19	20.0
BC06405	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.0956	0.0956	0.0981	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC06405	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.101	0.0978	0.0936	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC06405	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.105	0.101	0.0942	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BC06405	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0989	0.0993	0.102	0.0850 to 0.115	98.7	70.0 to 130	0.404	20.0
BC06405	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0963	0.0990	0.0978	0.0850 to 0.115	96.2	70.0 to 130	2.76	20.0
BC06405	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.202	0.199	0.0993	0.0850 to 0.115	92.0	70.0 to 130	1.50	20.0
BC06405	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.205	0.203	0.0984	0.0850 to 0.115	101	70.0 to 130	0.980	20.0
BC06405	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0931	0.0915	0.0932	0.0850 to 0.115	93.1	70.0 to 130	1.73	20.0
BC06405	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0840	0.0849	0.0857	0.0850 to 0.115	84.0	70.0 to 130	1.07	20.0
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06405	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.0965	0.0971	0.102	0.0850 to 0.115	96.5	70.0 to 130	0.620	20.0
BC06405	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.0966	0.0985	0.101	0.0850 to 0.115	96.6	70.0 to 130	1.95	20.0
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0
BC06405	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.0981	0.0942	0.101	0.0850 to 0.115	97.8	70.0 to 130	4.06	20.0
BC06405	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0965	0.0957	0.0979	0.0850 to 0.115	96.2	70.0 to 130	0.832	20.0
BC06405	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.106	0.102	0.104	0.0850 to 0.115	99.6	70.0 to 130	3.85	20.0
BC06405	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.105	0.103	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.92	20.0
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-2 DUP

Laboratory ID Number: BC06402

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06405	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0986	0.0971	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BC06405	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0960	0.0985	0.0986	0.0850 to 0.115	96.0	70.0 to 130	2.57	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06405	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	1.60	1.64	0.103	0.0850 to 0.115	90.0	70.0 to 130	2.47	20.0
BC06405	Manganese, Total	mg/L	0.0000175	0.0002	0.100	1.61	1.62	0.102	0.0850 to 0.115	80.0	70.0 to 130	0.619	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06405	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0968	0.0950	0.0997	0.0850 to 0.115	96.8	70.0 to 130	1.88	20.0
BC06405	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0979	0.0974	0.0986	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BC06405	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.8	10.4	10.2	8.50 to 11.5	99.9	70.0 to 130	3.77	20.0
BC06405	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.5	10.5	10.1	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC06405	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC06405	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06405	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.0968	0.0959	0.102	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-2 DUP

Laboratory ID Number: BC06402

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06405	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0934	0.0960	0.0980	0.0850 to 0.115	93.4	70.0 to 130	2.75	20.0
BC06405	Total Organic Carbon	mg/L	0.420	1.00	10.0	11.3	11.6	10.1		95.9	80.0 to 120	2.62	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/28/22 16:31

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-2 DUP

Laboratory ID Number: BC06402

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06402	Alkalinity, Total as CaCO3	mg/L					23.0	51.52	45.0 to 55.0			9.09	10.0
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06405	Solids, Dissolved	mg/L	1.00	25.0			744	49.0	40.0 to 60.0			1.90	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 3/29/22 08:48
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06403

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 10:21		1.015	0.0842	mg/L	0.030000	0.1015	J
* Calcium, Total	4/5/22 07:00	4/8/22 12:05		20.3	126	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 10:21		1.015	0.0181	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/8/22 10:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 10:21		1.015	15.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:21		1	16.9	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 10:21		1.015	7.91	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 12:05		20.3	192	mg/L	0.609	8.12	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:19		1.015	0.0852	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:15		20.3	129	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 13:19		1.015	0.0161	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:19		1.015	15.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:19		1	16.6	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:19		1.015	7.77	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 15:15		20.3	192	mg/L	0.609	8.12	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 14:43		1.015	0.000659	mg/L	0.000508	0.001015	J
* Aluminum, Total	3/30/22 12:09	3/31/22 14:43		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/30/22 12:09	3/31/22 14:43		1.015	0.0000841	mg/L	0.000081	0.000203	J
* Barium, Total	3/30/22 12:09	3/31/22 14:43		1.015	0.0639	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 14:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 14:43		1.015	0.000239	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 14:43		1.015	0.00140	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 14:43		1.015	0.590	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/30/22 12:09	3/31/22 14:43		1.015	0.000161	mg/L	0.000102	0.000203	J
* Potassium, Total	3/30/22 12:09	3/31/22 14:43		1.015	0.942	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 3/29/22 08:48
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06403

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 14:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	0.0654	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	0.00136	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	0.602	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	0.000171	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	1.00	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/31/22 11:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:26	4/4/22 16:26		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	493	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	894	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	490	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	2.59	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 17:36	3/31/22 17:36		1	1.22	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 3/29/22 08:48
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06403

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:02	4/4/22 10:02		5	94.7	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:04	4/4/22 13:04		1	0.104	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:27	4/11/22 12:27		16	187	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/29/22 08:45	3/29/22 08:45			1399.30	uS/cm			FA
pH	3/29/22 08:45	3/29/22 08:45			6.62	SU			FA
Temperature	3/29/22 08:45	3/29/22 08:45			18.93	C			FA
Turbidity	3/29/22 08:45	3/29/22 08:45			0.71	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 08:48
Customer ID:
Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BC06403

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC06405	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.100	0.0959	0.0996	0.0850 to 0.115	100	70.0 to 130	4.19	20.0
BC06405	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.0956	0.0956	0.0981	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC06405	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.101	0.0978	0.0936	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC06405	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.105	0.101	0.0942	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BC06405	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0989	0.0993	0.102	0.0850 to 0.115	98.7	70.0 to 130	0.404	20.0
BC06405	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0963	0.0990	0.0978	0.0850 to 0.115	96.2	70.0 to 130	2.76	20.0
BC06405	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.202	0.199	0.0993	0.0850 to 0.115	92.0	70.0 to 130	1.50	20.0
BC06405	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.205	0.203	0.0984	0.0850 to 0.115	101	70.0 to 130	0.980	20.0
BC06405	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0931	0.0915	0.0932	0.0850 to 0.115	93.1	70.0 to 130	1.73	20.0
BC06405	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0840	0.0849	0.0857	0.0850 to 0.115	84.0	70.0 to 130	1.07	20.0
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06405	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.0965	0.0971	0.102	0.0850 to 0.115	96.5	70.0 to 130	0.620	20.0
BC06405	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.0966	0.0985	0.101	0.0850 to 0.115	96.6	70.0 to 130	1.95	20.0
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0
BC06405	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.0981	0.0942	0.101	0.0850 to 0.115	97.8	70.0 to 130	4.06	20.0
BC06405	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0965	0.0957	0.0979	0.0850 to 0.115	96.2	70.0 to 130	0.832	20.0
BC06405	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.106	0.102	0.104	0.0850 to 0.115	99.6	70.0 to 130	3.85	20.0
BC06405	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.105	0.103	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.92	20.0
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 08:48

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BC06403

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06405	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0986	0.0971	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BC06405	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0960	0.0985	0.0986	0.0850 to 0.115	96.0	70.0 to 130	2.57	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06405	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	1.60	1.64	0.103	0.0850 to 0.115	90.0	70.0 to 130	2.47	20.0
BC06405	Manganese, Total	mg/L	0.0000175	0.0002	0.100	1.61	1.62	0.102	0.0850 to 0.115	80.0	70.0 to 130	0.619	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06405	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0968	0.0950	0.0997	0.0850 to 0.115	96.8	70.0 to 130	1.88	20.0
BC06405	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0979	0.0974	0.0986	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BC06405	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.8	10.4	10.2	8.50 to 11.5	99.9	70.0 to 130	3.77	20.0
BC06405	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.5	10.5	10.1	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC06405	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC06405	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06405	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.0968	0.0959	0.102	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 08:48

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BC06403

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec Limit		
BC06405	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0934	0.0960	0.0980	0.0850 to 0.115	93.4	70.0 to 130	2.75	20.0
BC06405	Total Organic Carbon	mg/L	0.420	1.00	10.0	11.3	11.6	10.1		95.9	80.0 to 120	2.62	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 08:48

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BC06403

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06405	Solids, Dissolved	mg/L	1.00	25.0			744	49.0	40.0 to 60.0			1.90	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-3

Location Code: WMWGREAPFB
Collected: 3/29/22 09:05
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/5/22 07:00	4/8/22 10:24		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/5/22 07:00	4/8/22 10:24		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	4/5/22 07:00	4/8/22 10:24		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	4/5/22 07:00	4/8/22 10:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/5/22 07:00	4/8/22 10:24		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:24		1	Not Detected	mg/L				
Silicon, Total	4/5/22 07:00	4/8/22 10:24		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	4/5/22 07:00	4/8/22 10:24		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/30/22 12:09	3/31/22 14:47		1.015	0.000252	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/30/22 12:09	3/31/22 14:47		1.015	0.000219	mg/L	0.000152	0.000203		
* Molybdenum, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	3/30/22 12:09	3/31/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:08		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: ELH								
* Nitrogen, Nitrate/Nitrite	4/4/22 16:28	4/4/22 16:28		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-3

Location Code: WMWGREAPFB

Collected: 3/29/22 09:05

Customer ID:

Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 17:55	3/31/22 17:55		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:55	4/4/22 09:55		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:05	4/4/22 13:05		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:19	4/11/22 12:19		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/29/22 09:05

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond Field Blank-3

Laboratory ID Number: BC06404

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06405	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.0956	0.0956	0.0981	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC06405	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.105	0.101	0.0942	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BC06405	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0963	0.0990	0.0978	0.0850 to 0.115	96.2	70.0 to 130	2.76	20.0
BC06405	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.205	0.203	0.0984	0.0850 to 0.115	101	70.0 to 130	0.980	20.0
BC06405	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0840	0.0849	0.0857	0.0850 to 0.115	84.0	70.0 to 130	1.07	20.0
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06405	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.0966	0.0985	0.101	0.0850 to 0.115	96.6	70.0 to 130	1.95	20.0
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0
BC06405	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0965	0.0957	0.0979	0.0850 to 0.115	96.2	70.0 to 130	0.832	20.0
BC06405	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.105	0.103	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.92	20.0
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06405	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0960	0.0985	0.0986	0.0850 to 0.115	96.0	70.0 to 130	2.57	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06405	Manganese, Total	mg/L	0.0000175	0.0002	0.100	1.61	1.62	0.102	0.0850 to 0.115	80.0	70.0 to 130	0.619	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06405	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0979	0.0974	0.0986	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BC06405	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.5	10.5	10.1	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC06405	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/29/22 09:05

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond Field Blank-3

Laboratory ID Number: BC06404

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06405	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0934	0.0960	0.0980	0.0850 to 0.115	93.4	70.0 to 130	2.75	20.0
BC06405	Total Organic Carbon	mg/L	0.420	1.00	10.0	11.3	11.6	10.1		95.9	80.0 to 120	2.62	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/29/22 09:05

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond Field Blank-3

Laboratory ID Number: BC06404

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06405	Solids, Dissolved	mg/L	1.00	25.0			744	49.0	40.0 to 60.0			1.90	10.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 3/29/22 09:43
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 10:27		1.015	1.08	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:08		20.3	92.8	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 10:27		1.015	0.0273	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/8/22 10:27		1.015	0.00828	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/5/22 07:00	4/8/22 10:27		1.015	18.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:27		1	15.0	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 10:27		1.015	6.99	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 12:08		20.3	168	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:22		1.015	1.10	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:18		20.3	93.1	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 13:22		1.015	0.0271	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:22		1.015	0.00827	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:22		1.015	18.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:22		1	15.1	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:22		1.015	7.06	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 15:18		20.3	163	mg/L	0.609	8.12	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/30/22 12:09	3/31/22 14:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/30/22 12:09	3/31/22 14:50		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/30/22 12:09	3/31/22 14:50		1.015	0.000146	mg/L	0.000081	0.000203	J
* Barium, Total	3/30/22 12:09	3/31/22 14:50		1.015	0.104	mg/L	0.000102	0.000203	
* Beryllium, Total	3/30/22 12:09	3/31/22 14:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/30/22 12:09	3/31/22 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/30/22 12:09	3/31/22 14:50		1.015	0.000267	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/30/22 12:09	3/31/22 14:50		1.015	0.00619	mg/L	0.000068	0.000203	
* Lead, Total	3/30/22 12:09	3/31/22 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/30/22 12:09	3/31/22 15:23		5.075	1.53	mg/L	0.000761	0.001015	
* Molybdenum, Total	3/30/22 12:09	3/31/22 14:50		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/30/22 12:09	3/31/22 14:50		1.015	0.741	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 3/29/22 09:43
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/30/22 12:09	3/31/22 14:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/30/22 12:09	3/31/22 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	0.000166	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	0.110	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	0.000273	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	0.00640	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/30/22 12:09	3/31/22 12:10		5.075	1.51	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	0.811	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/30/22 12:09	3/31/22 11:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:30	4/4/22 16:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	473	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/30/22 13:54	3/31/22 13:50		1	730	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	472	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	0.672	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/31/22 18:16	3/31/22 18:16		1	1.71	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 3/29/22 09:43
Customer ID:
Submittal Date: 3/29/22 15:48

Laboratory ID Number: BC06405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 11:20	4/4/22 11:20		8	95.4	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:07	4/4/22 13:07		1	0.108	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:28	4/11/22 12:28		5	75.3	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/29/22 09:40	3/29/22 09:40			1211.20	uS/cm			FA
pH	3/29/22 09:40	3/29/22 09:40			6.21	SU			FA
Temperature	3/29/22 09:40	3/29/22 09:40			19.67	C			FA
Turbidity	3/29/22 09:40	3/29/22 09:40			1.12	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 09:43

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BC06405

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06405	Aluminum, Dissolved	mg/L	0.000112	0.010	0.100	0.100	0.0959	0.0996	0.0850 to 0.115	100	70.0 to 130	4.19	20.0
BC06405	Aluminum, Total	mg/L	0.000338	0.010	0.100	0.0956	0.0956	0.0981	0.0850 to 0.115	95.6	70.0 to 130	0.00	20.0
BC06405	Antimony, Dissolved	mg/L	0.000249	0.00100	0.100	0.101	0.0978	0.0936	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC06405	Antimony, Total	mg/L	0.000336	0.00100	0.100	0.105	0.101	0.0942	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BC06405	Arsenic, Dissolved	mg/L	-0.0000245	0.000176	0.100	0.0989	0.0993	0.102	0.0850 to 0.115	98.7	70.0 to 130	0.404	20.0
BC06405	Arsenic, Total	mg/L	0.0000714	0.000176	0.100	0.0963	0.0990	0.0978	0.0850 to 0.115	96.2	70.0 to 130	2.76	20.0
BC06405	Barium, Dissolved	mg/L	0.0000000	0.00100	0.100	0.202	0.199	0.0993	0.0850 to 0.115	92.0	70.0 to 130	1.50	20.0
BC06405	Barium, Total	mg/L	0.0000233	0.00100	0.100	0.205	0.203	0.0984	0.0850 to 0.115	101	70.0 to 130	0.980	20.0
BC06405	Beryllium, Dissolved	mg/L	0.0000661	0.000880	0.100	0.0931	0.0915	0.0932	0.0850 to 0.115	93.1	70.0 to 130	1.73	20.0
BC06405	Beryllium, Total	mg/L	0.0000708	0.000880	0.100	0.0840	0.0849	0.0857	0.0850 to 0.115	84.0	70.0 to 130	1.07	20.0
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06405	Cadmium, Dissolved	mg/L	0.0000166	0.000147	0.100	0.0965	0.0971	0.102	0.0850 to 0.115	96.5	70.0 to 130	0.620	20.0
BC06405	Cadmium, Total	mg/L	-0.0000095	0.000147	0.100	0.0966	0.0985	0.101	0.0850 to 0.115	96.6	70.0 to 130	1.95	20.0
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0
BC06405	Chromium, Dissolved	mg/L	0.0000007	0.000440	0.100	0.0981	0.0942	0.101	0.0850 to 0.115	97.8	70.0 to 130	4.06	20.0
BC06405	Chromium, Total	mg/L	0.0000517	0.000440	0.100	0.0965	0.0957	0.0979	0.0850 to 0.115	96.2	70.0 to 130	0.832	20.0
BC06405	Cobalt, Dissolved	mg/L	-0.0000130	0.000147	0.100	0.106	0.102	0.104	0.0850 to 0.115	99.6	70.0 to 130	3.85	20.0
BC06405	Cobalt, Total	mg/L	0.0000032	0.000147	0.100	0.105	0.103	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.92	20.0
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 09:43

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BC06405

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06405	Lead, Dissolved	mg/L	0.0000057	0.000147	0.100	0.0986	0.0971	0.101	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BC06405	Lead, Total	mg/L	0.0000253	0.000147	0.100	0.0960	0.0985	0.0986	0.0850 to 0.115	96.0	70.0 to 130	2.57	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06405	Manganese, Dissolved	mg/L	-0.0000794	0.0002	0.100	1.60	1.64	0.103	0.0850 to 0.115	90.0	70.0 to 130	2.47	20.0
BC06405	Manganese, Total	mg/L	0.0000175	0.0002	0.100	1.61	1.62	0.102	0.0850 to 0.115	80.0	70.0 to 130	0.619	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06405	Molybdenum, Dissolved	mg/L	0.0000036	0.0002	0.100	0.0968	0.0950	0.0997	0.0850 to 0.115	96.8	70.0 to 130	1.88	20.0
BC06405	Molybdenum, Total	mg/L	0.0000044	0.0002	0.100	0.0979	0.0974	0.0986	0.0850 to 0.115	97.9	70.0 to 130	0.512	20.0
BC06405	Potassium, Dissolved	mg/L	-0.0102	0.367	10.0	10.8	10.4	10.2	8.50 to 11.5	99.9	70.0 to 130	3.77	20.0
BC06405	Potassium, Total	mg/L	-0.0106	0.367	10.0	10.5	10.5	10.1	8.50 to 11.5	97.6	70.0 to 130	0.00	20.0
BC06405	Selenium, Dissolved	mg/L	0.0000769	0.00100	0.100	0.105	0.102	0.104	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC06405	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.103	0.103	0.101	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06405	Thallium, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.0968	0.0959	0.102	0.0850 to 0.115	96.8	70.0 to 130	0.934	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 09:43

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BC06405

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec Limit		
BC06405	Thallium, Total	mg/L	0.0000227	0.000147	0.100	0.0934	0.0960	0.0980	0.0850 to 0.115	93.4	70.0 to 130	2.75	20.0
BC06405	Total Organic Carbon	mg/L	0.420	1.00	10.0	11.3	11.6	10.1		95.9	80.0 to 120	2.62	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 09:43

Customer ID:

Delivery Date: 3/29/22 15:48

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BC06405

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06405	Solids, Dissolved	mg/L	1.00	25.0			744	49.0	40.0 to 60.0			1.90	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP
Collected: 3/29/22 14:28
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06485

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 10:30		1.015	0.567	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:11		20.3	110	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 10:30		1.015	0.516	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/8/22 10:30		1.015	0.411	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/8/22 10:30		1.015	38.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:30		1	5.44	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 10:30		1.015	2.54	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 10:30		1.015	25.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:25		1.015	0.581	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:21		20.3	109	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 13:25		1.015	0.308	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:25		1.015	0.422	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:25		1.015	39.6	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:25		1	5.41	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:25		1.015	2.53	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 13:25		1.015	26.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 18:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 18:35		1.015	0.0199	mg/L	0.006090	0.01015	
* Arsenic, Total	4/5/22 09:00	4/5/22 18:35		1.015	0.00106	mg/L	0.000081	0.000203	
* Barium, Total	4/5/22 09:00	4/5/22 18:35		1.015	0.0534	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 18:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 18:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/5/22 09:00	4/5/22 18:35		1.015	0.000262	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 18:35		1.015	0.0108	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 18:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 19:58		10.15	6.27	mg/L	0.001522	0.00203	
* Molybdenum, Total	4/5/22 09:00	4/5/22 18:35		1.015	0.0652	mg/L	0.000102	0.000203	
* Potassium, Total	4/5/22 09:00	4/5/22 18:35		1.015	7.63	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP
Collected: 3/29/22 14:28
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06485

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 18:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 18:35		1.015	0.000127	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	0.000699	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	0.0526	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	0.0109	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 15:48		10.15	6.08	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	0.0676	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	7.56	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 12:35		1.015	0.000128	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:32	4/4/22 16:32		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	133	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	646	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	132	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	1.27	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 14:24	4/7/22 14:24		1	1.38	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP

Collected: 3/29/22 14:28

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06485

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:57	4/4/22 09:57		1	9.58	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:08	4/4/22 13:08		1	0.162	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 12:41	4/11/22 12:41		32	337	mg/L	19.2	64	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/29/22 14:24	3/29/22 14:24			841.42	uS/cm			FA
pH	3/29/22 14:24	3/29/22 14:24			6.83	SU			FA
Temperature	3/29/22 14:24	3/29/22 14:24			24.72	C			FA
Turbidity	3/29/22 14:24	3/29/22 14:24			3.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 14:28

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BC06485

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 14:28
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BC06485

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0
BC06485	Sulfate	mg/L	0.234	2.0	640	984	1010	19.6	18.0 to 22.0	101	80.0 to 120	2.61	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 14:28

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BC06485

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 14:28

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BC06485

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H DUP

Location Code: WMWGREAP
Collected: 3/29/22 14:28
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06486

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 10:32		1.015	0.570	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:14		20.3	104	mg/L	1.4007	8.12	RA
* Iron, Total	4/5/22 07:00	4/8/22 10:32		1.015	0.478	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/8/22 10:32		1.015	0.407	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/8/22 10:32		1.015	37.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:32		1	5.46	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 10:32		1.015	2.55	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 10:32		1.015	25.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:28		1.015	0.575	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:24		20.3	111	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 13:28		1.015	0.305	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:28		1.015	0.425	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:28		1.015	39.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:28		1	5.41	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:28		1.015	2.53	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 13:28		1.015	26.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 18:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 18:39		1.015	0.0201	mg/L	0.006090	0.01015	
* Arsenic, Total	4/5/22 09:00	4/5/22 18:39		1.015	0.000952	mg/L	0.000081	0.000203	
* Barium, Total	4/5/22 09:00	4/5/22 18:39		1.015	0.0558	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 18:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 18:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/5/22 09:00	4/5/22 18:39		1.015	0.000280	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 18:39		1.015	0.0113	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 18:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 20:02		10.15	6.28	mg/L	0.001522	0.00203	
* Molybdenum, Total	4/5/22 09:00	4/5/22 18:39		1.015	0.0690	mg/L	0.000102	0.000203	
* Potassium, Total	4/5/22 09:00	4/5/22 18:39		1.015	7.93	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H DUP

Location Code: WMWGREAP
Collected: 3/29/22 14:28
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06486

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 18:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 18:39		1.015	0.000125	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	0.000733	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	0.0533	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	0.000228	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	0.0112	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 15:51		10.15	6.39	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	0.0688	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	7.77	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 12:39		1.015	0.000145	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:34	4/4/22 16:34		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	194	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	614	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	194	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 14:43	4/7/22 14:43		1	1.32	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-45H DUP

Location Code: WMWGREAP

Collected: 3/29/22 14:28

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06486

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 09:59	4/4/22 09:59		1	9.44	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:09	4/4/22 13:09		1	0.130	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:36	4/11/22 13:36		16	361	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/29/22 14:24	3/29/22 14:24			841.42	uS/cm			FA
pH	3/29/22 14:24	3/29/22 14:24			6.83	SU			FA
Temperature	3/29/22 14:24	3/29/22 14:24			24.72	C			FA
Turbidity	3/29/22 14:24	3/29/22 14:24			3.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 14:28

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-45H DUP

Laboratory ID Number: BC06486

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0
BC06486	Boron, Total	mg/L	0.000035	0.0650	1.00	1.61	1.61	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0
BC06486	Calcium, Total	mg/L	0.00137	0.152	5.00	110	112	4.90	4.25 to 5.75	120	70.0 to 130	1.80	20.0
BC06486	Chloride	mg/L	0.0111	1.00	10.0	20.2	20.2	10.2	9.00 to 11.0	108	80.0 to 120	0.00	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06486	Fluoride	mg/L	-0.0428	0.125	2.50	2.69	2.85	2.64	2.25 to 2.75	102	80.0 to 120	5.78	20.0
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 14:28

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-45H DUP

Laboratory ID Number: BC06486

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06486	Iron, Total	mg/L	0.000296	0.0176	0.2	0.670	0.681	0.202	0.170 to 0.230	96.0	70.0 to 130	1.63	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06486	Lithium, Total	mg/L	0.00002	0.0154	0.200	0.610	0.618	0.204	0.170 to 0.230	102	70.0 to 130	1.30	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06486	Magnesium, Total	mg/L	-0.00211	0.0462	5.00	42.5	42.9	5.22	4.25 to 5.75	94.0	70.0 to 130	0.937	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06486	Mercury, Total by CVAA	mg/L	-0.0002	0.000500	0.004	0.00396	0.00401	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	1.25	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06486	Silicon, Total	mg/L	0.000001	0.0440	1.00	3.53	3.53	1.02	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06486	Sodium, Total	mg/L	0.000473	0.0660	5.00	30.5	30.9	5.22	4.25 to 5.75	96.0	70.0 to 130	1.30	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 14:28

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-45H DUP

Laboratory ID Number: BC06486

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 14:28

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-45H DUP

Laboratory ID Number: BC06486

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06486	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.10	-0.007	2.04	1.80 to 2.20	105	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 3/29/22 16:00
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06487

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 10:53		1.015	0.848	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:23		20.3	75.7	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 10:53		1.015	1.25	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/8/22 10:53		1.015	0.534	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/8/22 10:53		1.015	18.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:53		1	12.2	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 10:53		1.015	5.69	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 10:53		1.015	30.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:31		1.015	0.856	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:27		20.3	75.6	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 13:31		1.015	1.31	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:31		1.015	0.618	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:31		1.015	19.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:31		1	12.1	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:31		1.015	5.64	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 13:31		1.015	33.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 18:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 18:42		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/5/22 09:00	4/5/22 18:42		1.015	0.000318	mg/L	0.000081	0.000203	
* Barium, Total	4/5/22 09:00	4/5/22 18:42		1.015	0.0381	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 18:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 18:42		1.015	0.000459	mg/L	0.000068	0.000203	
* Chromium, Total	4/5/22 09:00	4/5/22 18:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/5/22 09:00	4/5/22 18:42		1.015	0.0172	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 18:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 20:17		5.075	2.25	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/5/22 09:00	4/5/22 18:42		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/5/22 09:00	4/5/22 18:42		1.015	10.3	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 3/29/22 16:00
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06487

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 18:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 18:42		1.015	0.000115	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	0.000404	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	0.0387	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	0.000479	mg/L	0.000068	0.000203	
* Chromium, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	0.0178	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 15:55		5.075	2.23	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	10.5	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 12:42		1.015	0.000108	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:43	4/4/22 16:43		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	183	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	406	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	183	mg/L			
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 15:04	4/7/22 15:04		1	1.41	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 3/29/22 16:00
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06487

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:13	4/4/22 10:13		1	10.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:21	4/4/22 13:21		1	0.117	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:37	4/11/22 13:37		10	165	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/29/22 15:57	3/29/22 15:57			595.79	uS/cm			FA
pH	3/29/22 15:57	3/29/22 15:57			5.81	SU			FA
Temperature	3/29/22 15:57	3/29/22 15:57			23.13	C			FA
Turbidity	3/29/22 15:57	3/29/22 15:57			0.97	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 16:00
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BC06487

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 16:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BC06487

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 16:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BC06487

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 16:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BC06487

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 3/30/22 09:23
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06488

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/5/22 07:00	4/8/22 10:56		1.015	0.145	mg/L	0.030000	0.1015		
* Calcium, Total	4/5/22 07:00	4/8/22 10:56		1.015	1.01	mg/L	0.070035	0.406		
* Iron, Total	4/5/22 07:00	4/8/22 10:56		1.015	0.250	mg/L	0.008120	0.0406		
* Lithium, Total	4/5/22 07:00	4/8/22 10:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/5/22 07:00	4/8/22 10:56		1.015	0.0930	mg/L	0.021315	0.406	J	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:56		1	13.0	mg/L				
Silicon, Total	4/5/22 07:00	4/8/22 10:56		1.015	6.06	mg/L	0.02030	0.25375		
* Sodium, Total	4/5/22 07:00	4/8/22 12:26		20.3	68.5	mg/L	0.609	8.12		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:34		1.015	0.147	mg/L	0.030000	0.1015		
* Calcium, Dissolved	4/4/22 08:25	4/7/22 13:34		1.015	0.754	mg/L	0.070035	0.406		
* Iron, Dissolved	4/4/22 08:25	4/7/22 13:34		1.015	0.0133	mg/L	0.008120	0.0406	J	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:34		1.015	0.0663	mg/L	0.021315	0.406	J	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:34		1	12.0	mg/L				
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:34		1.015	5.60	mg/L	0.02030	0.25375		
* Sodium, Dissolved	4/4/22 08:25	4/7/22 15:29		20.3	66.2	mg/L	0.609	8.12		
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638					
* Antimony, Total	4/5/22 09:00	4/5/22 18:46		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	4/5/22 09:00	4/5/22 18:46		1.015	0.715	mg/L	0.006090	0.01015		
* Arsenic, Total	4/5/22 09:00	4/5/22 18:46		1.015	0.00263	mg/L	0.000081	0.000203		
* Barium, Total	4/5/22 09:00	4/5/22 18:46		1.015	0.00372	mg/L	0.000102	0.000203		
* Beryllium, Total	4/5/22 09:00	4/5/22 18:46		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/5/22 09:00	4/5/22 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/5/22 09:00	4/5/22 18:46		1.015	0.00108	mg/L	0.000203	0.001015		
* Cobalt, Total	4/5/22 09:00	4/5/22 18:46		1.015	0.000700	mg/L	0.000068	0.000203		
* Lead, Total	4/5/22 09:00	4/5/22 18:46		1.015	0.000368	mg/L	0.000068	0.000203		
* Manganese, Total	4/5/22 09:00	4/5/22 18:46		1.015	0.00350	mg/L	0.000152	0.000203		
* Molybdenum, Total	4/5/22 09:00	4/5/22 18:46		1.015	0.000175	mg/L	0.000102	0.000203	J	
* Potassium, Total	4/5/22 09:00	4/5/22 18:46		1.015	0.628	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 3/30/22 09:23
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06488

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 18:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	0.0257	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	0.00237	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	0.00116	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	0.000273	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	0.000339	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	0.000110	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	0.00116	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	0.000227	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	0.601	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:45	4/4/22 16:45		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/12/22 12:30	4/12/22 15:30		1	139	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	170	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	137	mg/L			
Carbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	2.18	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 15:25	4/7/22 15:25		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP

Collected: 3/30/22 09:23

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06488

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:15	4/4/22 10:15		1	3.04	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:22	4/4/22 13:22		1	0.301	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:38	4/11/22 13:38		1	10.3	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/30/22 09:20	3/30/22 09:20			282.76	uS/cm			FA
pH	3/30/22 09:20	3/30/22 09:20			7.81	SU			FA
Temperature	3/30/22 09:20	3/30/22 09:20			26.48	C			FA
Turbidity	3/30/22 09:20	3/30/22 09:20			6.4	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/22 09:23
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BC06488

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 09:23

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BC06488

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 09:23

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BC06488

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 09:23

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BC06488

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BC06500	Alkalinity, Total as CaCO3	mg/L					48.1	50.1	45.0 to 55.0			6.00	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 3/30/22 10:38
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06489

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/5/22 07:00	4/8/22 10:59		1.015	0.102	mg/L	0.030000	0.1015		
* Calcium, Total	4/5/22 07:00	4/8/22 12:29		20.3	93.5	mg/L	1.4007	8.12		
* Iron, Total	4/5/22 07:00	4/8/22 10:59		1.015	0.0210	mg/L	0.008120	0.0406	J	
* Lithium, Total	4/5/22 07:00	4/8/22 10:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/5/22 07:00	4/8/22 10:59		1.015	7.55	mg/L	0.021315	0.406		
Silica, Total (calc.)	4/5/22 07:00	4/8/22 10:59		1	9.63	mg/L				
Silicon, Total	4/5/22 07:00	4/8/22 10:59		1.015	4.50	mg/L	0.02030	0.25375		
* Sodium, Total	4/5/22 07:00	4/8/22 10:59		1.015	3.63	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:37		1.015	0.102	mg/L	0.030000	0.1015		
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:32		20.3	93.9	mg/L	1.4007	8.12	RA	
* Iron, Dissolved	4/4/22 08:25	4/7/22 13:37		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:37		1.015	7.66	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:37		1	9.59	mg/L				
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:37		1.015	4.48	mg/L	0.02030	0.25375		
* Sodium, Dissolved	4/4/22 08:25	4/7/22 13:37		1.015	3.77	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638					
* Antimony, Total	4/5/22 09:00	4/5/22 18:50		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	4/5/22 09:00	4/5/22 18:50		1.015	0.00814	mg/L	0.006090	0.01015	J	
* Arsenic, Total	4/5/22 09:00	4/5/22 18:50		1.015	0.0000944	mg/L	0.000081	0.000203	J	
* Barium, Total	4/5/22 09:00	4/5/22 18:50		1.015	0.0702	mg/L	0.000102	0.000203		
* Beryllium, Total	4/5/22 09:00	4/5/22 18:50		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/5/22 09:00	4/5/22 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/5/22 09:00	4/5/22 18:50		1.015	0.000372	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/5/22 09:00	4/5/22 18:50		1.015	0.000338	mg/L	0.000068	0.000203		
* Lead, Total	4/5/22 09:00	4/5/22 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	4/5/22 09:00	4/5/22 18:50		1.015	0.0272	mg/L	0.000152	0.000203		
* Molybdenum, Total	4/5/22 09:00	4/5/22 18:50		1.015	0.000759	mg/L	0.000102	0.000203		
* Potassium, Total	4/5/22 09:00	4/5/22 18:50		1.015	2.10	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 3/30/22 10:38
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06489

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 18:50		1.015	0.00902	mg/L	0.000508	0.001015	
* Thallium, Total	4/5/22 09:00	4/5/22 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	0.000092	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	0.0770	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	0.000381	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	0.000371	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	0.0334	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	0.000689	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	2.19	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	0.0100	mg/L	0.000508	0.001015	
* Thallium, Dissolved	4/5/22 09:01	4/5/22 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:47	4/4/22 16:47		1	0.386	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/12/22 12:30	4/12/22 15:30		1	222	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	282	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	222	mg/L			
Carbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 15:46	4/7/22 15:46		1	1.25	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP

Collected: 3/30/22 10:38

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06489

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:16	4/4/22 10:16		1	3.80	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:23	4/4/22 13:23		1	0.0661	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:40	4/11/22 13:40		2	51.9	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/30/22 10:34	3/30/22 10:34			479.43	uS/cm			FA
pH	3/30/22 10:34	3/30/22 10:34			6.62	SU			FA
Temperature	3/30/22 10:34	3/30/22 10:34			23.34	C			FA
Turbidity	3/30/22 10:34	3/30/22 10:34			0.95	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/22 10:38
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BC06489

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06489	Boron, Dissolved	mg/L	-0.000305	0.0650	1.00	1.15	1.14	1.04	0.850 to 1.15	105	70.0 to 130	0.873	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06489	Calcium, Dissolved	mg/L	-0.0107	0.152	5.00	97.3	97.3	4.96	4.25 to 5.75	68.0	70.0 to 130	0.00	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06489	Iron, Dissolved	mg/L	0.000237	0.0176	0.2	0.205	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 10:38

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BC06489

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06489	Lithium, Dissolved	mg/L	0.00012	0.0154	0.200	0.212	0.213	0.201	0.170 to 0.230	106	70.0 to 130	0.471	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06489	Magnesium, Dissolved	mg/L	-0.00575	0.0462	5.00	12.9	12.9	5.26	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06489	Silicon, Dissolved	mg/L	-0.000448	0.0440	1.00	5.47	5.46	1.03	0.850 to 1.15	99.0	70.0 to 130	0.183	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06489	Sodium, Dissolved	mg/L	0.00154	0.0660	5.00	9.00	9.03	5.10	4.25 to 5.75	105	70.0 to 130	0.333	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 10:38

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BC06489

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 10:38

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BC06489

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06500	Alkalinity, Total as CaCO3	mg/L					48.1	50.1	45.0 to 55.0			6.00	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 3/30/22 11:52
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06490

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 11:02		1.015	0.506	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:37		20.3	96.0	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 11:02		1.015	0.390	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/8/22 11:02		1.015	0.707	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/8/22 11:02		1.015	24.9	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:02		1	6.36	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 11:02		1.015	2.97	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 11:02		1.015	19.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 13:57		1.015	0.504	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:47		20.3	98.0	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 13:57		1.015	0.356	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 13:57		1.015	0.716	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 13:57		1.015	25.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 13:57		1	6.33	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 13:57		1.015	2.96	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 13:57		1.015	19.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 18:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 18:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/5/22 09:00	4/5/22 18:53		1.015	0.000273	mg/L	0.000081	0.000203	
* Barium, Total	4/5/22 09:00	4/5/22 18:53		1.015	0.0277	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 18:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 18:53		1.015	0.000180	mg/L	0.000068	0.000203	J
* Chromium, Total	4/5/22 09:00	4/5/22 18:53		1.015	0.000304	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 18:53		1.015	0.0103	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 20:20		5.075	3.33	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/5/22 09:00	4/5/22 18:53		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/5/22 09:00	4/5/22 18:53		1.015	10.1	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 3/30/22 11:52
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06490

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 18:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 18:53		1.015	0.000168	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	0.000303	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	0.0258	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	0.000150	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	0.0107	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 15:59		5.075	3.31	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	10.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 12:53		1.015	0.000183	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 19:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:48	4/4/22 16:48		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/12/22 12:30	4/12/22 15:30		1	96.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	493	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	96.2	mg/L			
Carbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 16:07	4/7/22 16:07		1	1.28	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP

Collected: 3/30/22 11:52

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06490

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:17	4/4/22 10:17		1	5.72	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:25	4/4/22 13:25		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:41	4/11/22 13:41		20	290	mg/L	12.0	40	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/30/22 11:49	3/30/22 11:49			670.34	uS/cm			FA
pH	3/30/22 11:49	3/30/22 11:49			5.69	SU			FA
Temperature	3/30/22 11:49	3/30/22 11:49			22.37	C			FA
Turbidity	3/30/22 11:49	3/30/22 11:49			0.3	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/22 11:52
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BC06490

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/22 11:52
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BC06490

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 11:52

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BC06490

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 11:52

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BC06490

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BC06500	Alkalinity, Total as CaCO3	mg/L					48.1	50.1	45.0 to 55.0			6.00	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 3/29/22 10:56
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06491

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 11:04		1.015	0.710	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:40		20.3	72.1	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 12:40		20.3	5.27	mg/L	0.1624	0.812	
* Lithium, Total	4/5/22 07:00	4/8/22 11:04		1.015	0.0126	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/5/22 07:00	4/8/22 11:04		1.015	30.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:04		1	8.73	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 11:04		1.015	4.08	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 12:40		20.3	171	mg/L	0.609	8.12	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:00		1.015	0.735	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:50		20.3	76.5	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 15:50		20.3	5.34	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:00		1.015	0.0137	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:00		1.015	31.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:00		1	8.73	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:00		1.015	4.08	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 15:50		20.3	156	mg/L	0.609	8.12	
Analytical Method: EPA 200.8			Analyst: ABB		Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 18:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 18:57		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/5/22 09:00	4/5/22 18:57		1.015	0.00316	mg/L	0.000081	0.000203	
* Barium, Total	4/5/22 09:00	4/5/22 18:57		1.015	0.139	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 18:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/5/22 09:00	4/5/22 18:57		1.015	0.000270	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 18:57		1.015	0.0267	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 20:24		10.15	5.83	mg/L	0.001522	0.00203	
* Molybdenum, Total	4/5/22 09:00	4/5/22 18:57		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/5/22 09:00	4/5/22 18:57		1.015	5.57	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 3/29/22 10:56
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06491

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 18:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	0.00393	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	0.136	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	0.0276	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 16:03		10.15	5.76	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	5.69	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:50	4/4/22 16:50		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	227	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	800	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	226	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	1.31	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 16:29	4/7/22 16:29		1	1.90	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP

Collected: 3/29/22 10:56

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06491

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:28	4/4/22 10:28		25	225	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:26	4/4/22 13:26		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:42	4/11/22 13:42		10	193	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/29/22 10:53	3/29/22 10:53			1442.55	uS/cm			FA
pH	3/29/22 10:53	3/29/22 10:53			5.61	SU			FA
Temperature	3/29/22 10:53	3/29/22 10:53			19.59	C			FA
Turbidity	3/29/22 10:53	3/29/22 10:53			0.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 10:56
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BC06491

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 10:56

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BC06491

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 10:56

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BC06491

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec Limit	Prec Limit	
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 10:56

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BC06491

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9 DUP

Location Code: WMWGREAP
Collected: 3/29/22 10:56
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06492

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 11:07		1.015	0.720	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:43		20.3	69.7	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 12:43		20.3	5.01	mg/L	0.1624	0.812	
* Lithium, Total	4/5/22 07:00	4/8/22 11:07		1.015	0.0126	mg/L	0.007105	0.01999956	J
* Magnesium, Total	4/5/22 07:00	4/8/22 11:07		1.015	30.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:07		1	8.82	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 11:07		1.015	4.12	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 12:43		20.3	167	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:03		1.015	0.727	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:53		20.3	80.8	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 15:53		20.3	5.37	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:03		1.015	0.0130	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:03		1.015	31.1	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:03		1	8.73	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:03		1.015	4.08	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 15:53		20.3	157	mg/L	0.609	8.12	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 19:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 19:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/5/22 09:00	4/5/22 19:00		1.015	0.00331	mg/L	0.000081	0.000203	
* Barium, Total	4/5/22 09:00	4/5/22 19:00		1.015	0.139	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 19:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/5/22 09:00	4/5/22 19:00		1.015	0.000227	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 19:00		1.015	0.0266	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 20:28		10.15	5.97	mg/L	0.001522	0.00203	
* Molybdenum, Total	4/5/22 09:00	4/5/22 19:00		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/5/22 09:00	4/5/22 19:00		1.015	5.59	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9 DUP

Location Code: WMWGREAP
Collected: 3/29/22 10:56
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06492

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 19:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	0.00369	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	0.133	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	0.0274	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 16:06		10.15	6.05	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	5.65	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 13:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:52	4/4/22 16:52		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	233	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	776	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	233	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 16:50	4/7/22 16:50		1	2.01	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-9 DUP

Location Code: WMWGREAP
Collected: 3/29/22 10:56
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06492

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:29	4/4/22 10:29		25	239	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:27	4/4/22 13:27		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:43	4/11/22 13:43		10	187	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/29/22 10:53	3/29/22 10:53			1442.55	uS/cm			FA
pH	3/29/22 10:53	3/29/22 10:53			5.61	SU			FA
Temperature	3/29/22 10:53	3/29/22 10:53			19.59	C			FA
Turbidity	3/29/22 10:53	3/29/22 10:53			0.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 10:56
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-9 DUP

Laboratory ID Number: BC06492

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 10:56

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-9 DUP

Laboratory ID Number: BC06492

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 10:56

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-9 DUP

Laboratory ID Number: BC06492

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec Limit	Prec Limit	
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 10:56

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-9 DUP

Laboratory ID Number: BC06492

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 3/29/22 12:16
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06493

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/5/22 07:00	4/8/22 11:10		1.015	0.122	mg/L	0.030000	0.1015		
* Calcium, Total	4/5/22 07:00	4/8/22 11:10		1.015	31.9	mg/L	0.070035	0.406		
* Iron, Total	4/5/22 07:00	4/8/22 11:10		1.015	0.903	mg/L	0.008120	0.0406		
* Lithium, Total	4/5/22 07:00	4/8/22 11:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/5/22 07:00	4/8/22 11:10		1.015	7.30	mg/L	0.021315	0.406		
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:10		1	22.9	mg/L				
Silicon, Total	4/5/22 07:00	4/8/22 11:10		1.015	10.7	mg/L	0.02030	0.25375		
* Sodium, Total	4/5/22 07:00	4/8/22 11:10		1.015	34.4	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:06		1.015	0.122	mg/L	0.030000	0.1015		
* Calcium, Dissolved	4/4/22 08:25	4/7/22 14:06		1.015	33.4	mg/L	0.070035	0.406		
* Iron, Dissolved	4/4/22 08:25	4/7/22 14:06		1.015	0.817	mg/L	0.008120	0.0406		
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:06		1.015	7.58	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:06		1	22.5	mg/L				
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:06		1.015	10.5	mg/L	0.02030	0.25375		
* Sodium, Dissolved	4/4/22 08:25	4/7/22 14:06		1.015	34.0	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638					
* Antimony, Total	4/5/22 09:00	4/5/22 19:04		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	4/5/22 09:00	4/5/22 19:04		1.015	0.0155	mg/L	0.006090	0.01015		
* Arsenic, Total	4/5/22 09:00	4/5/22 19:04		1.015	0.000262	mg/L	0.000081	0.000203		
* Barium, Total	4/5/22 09:00	4/5/22 19:04		1.015	0.0717	mg/L	0.000102	0.000203		
* Beryllium, Total	4/5/22 09:00	4/5/22 19:04		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/5/22 09:00	4/5/22 19:04		1.015	0.0000691	mg/L	0.000068	0.000203	J	
* Chromium, Total	4/5/22 09:00	4/5/22 19:04		1.015	0.000415	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/5/22 09:00	4/5/22 19:04		1.015	0.0101	mg/L	0.000068	0.000203		
* Lead, Total	4/5/22 09:00	4/5/22 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	4/5/22 09:00	4/5/22 19:04		1.015	0.286	mg/L	0.000152	0.000203		
* Molybdenum, Total	4/5/22 09:00	4/5/22 19:04		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	4/5/22 09:00	4/5/22 19:04		1.015	1.02	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 3/29/22 12:16
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06493

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 19:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	0.000236	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	0.0737	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	0.00988	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	0.278	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	0.981	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:54	4/4/22 16:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	70.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	247	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	69.8	mg/L			
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 17:08	4/7/22 17:08		1	1.00	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP

Collected: 3/29/22 12:16

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06493

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:30	4/4/22 10:30		2	29.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:28	4/4/22 13:28		1	0.0724	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:44	4/11/22 13:44		4	68.6	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/29/22 12:13	3/29/22 12:13			398.30	uS/cm			FA
pH	3/29/22 12:13	3/29/22 12:13			5.26	SU			FA
Temperature	3/29/22 12:13	3/29/22 12:13			20.56	C			FA
Turbidity	3/29/22 12:13	3/29/22 12:13			2.92	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 12:16
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BC06493

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 12:16
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BC06493

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 12:16

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BC06493

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 12:16

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BC06493

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 3/29/22 13:46
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06494

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 11:13		1.015	1.39	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 12:46		20.3	128	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 11:13		1.015	0.504	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/8/22 11:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/8/22 11:13		1.015	26.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:13		1	20.5	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 11:13		1.015	9.59	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 12:46		20.3	115	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:09		1.015	1.40	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:56		20.3	134	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 14:09		1.015	0.489	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:09		1.015	0.00733	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:09		1.015	26.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:09		1	20.4	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:09		1.015	9.52	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 15:56		20.3	104	mg/L	0.609	8.12	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 19:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 19:08		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/5/22 09:00	4/5/22 19:08		1.015	0.000128	mg/L	0.000081	0.000203	J
* Barium, Total	4/5/22 09:00	4/5/22 19:08		1.015	0.0614	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 19:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 19:08		1.015	0.000497	mg/L	0.000068	0.000203	
* Chromium, Total	4/5/22 09:00	4/5/22 19:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/5/22 09:00	4/5/22 19:08		1.015	0.00223	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 19:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 19:08		1.015	0.743	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/5/22 09:00	4/5/22 19:08		1.015	0.00142	mg/L	0.000102	0.000203	
* Potassium, Total	4/5/22 09:00	4/5/22 19:08		1.015	0.797	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 3/29/22 13:46
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06494

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 19:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 19:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	0.000127	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	0.0604	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	0.000439	mg/L	0.000068	0.000203	
* Chromium, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	0.00228	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	0.738	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	0.00149	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	0.804	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 13:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:56	4/4/22 16:56		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	436	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	722	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	436	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 17:29	4/7/22 17:29		1	1.35	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP

Collected: 3/29/22 13:46

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06494

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:31	4/4/22 10:31		5	45.3	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:29	4/4/22 13:29		1	0.193	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:46	4/11/22 13:46		10	190	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/29/22 13:43	3/29/22 13:43			1178.36	uS/cm			FA
pH	3/29/22 13:43	3/29/22 13:43			5.99	SU			FA
Temperature	3/29/22 13:43	3/29/22 13:43			20.48	C			FA
Turbidity	3/29/22 13:43	3/29/22 13:43			1.15	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 13:46
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BC06494

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06494	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC06494	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.0992	0.100	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC06494	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0900	0.0927	0.0901	0.0850 to 0.115	90.0	70.0 to 130	2.96	20.0
BC06494	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.106	0.106	0.0968	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC06494	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0997	0.101	0.0980	0.0850 to 0.115	99.6	70.0 to 130	1.30	20.0
BC06494	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0964	0.0975	0.0850 to 0.115	98.3	70.0 to 130	2.05	20.0
BC06494	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.157	0.161	0.0983	0.0850 to 0.115	96.6	70.0 to 130	2.52	20.0
BC06494	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.163	0.165	0.100	0.0850 to 0.115	102	70.0 to 130	1.22	20.0
BC06494	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0908	0.0897	0.0914	0.0850 to 0.115	90.8	70.0 to 130	1.22	20.0
BC06494	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0842	0.0850	0.0908	0.0850 to 0.115	84.2	70.0 to 130	0.946	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06494	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0951	0.0972	0.0976	0.0850 to 0.115	94.7	70.0 to 130	2.18	20.0
BC06494	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0964	0.0974	0.101	0.0850 to 0.115	95.9	70.0 to 130	1.03	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06494	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0963	0.0953	0.0970	0.0850 to 0.115	96.3	70.0 to 130	1.04	20.0
BC06494	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0956	0.0954	0.0955	0.0850 to 0.115	95.6	70.0 to 130	0.209	20.0
BC06494	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.0991	0.0985	0.0989	0.0850 to 0.115	96.8	70.0 to 130	0.607	20.0
BC06494	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.0983	0.0973	0.0977	0.0850 to 0.115	96.1	70.0 to 130	1.02	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/29/22 13:46
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BC06494

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06494	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0983	0.0987	0.0973	0.0850 to 0.115	98.3	70.0 to 130	0.406	20.0
BC06494	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0962	0.0980	0.0962	0.0850 to 0.115	96.2	70.0 to 130	1.85	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06494	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	0.832	0.822	0.0985	0.0850 to 0.115	94.0	70.0 to 130	1.21	20.0
BC06494	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	0.828	0.817	0.0976	0.0850 to 0.115	85.0	70.0 to 130	1.34	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06494	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.100	0.0992	0.0990	0.0850 to 0.115	98.5	70.0 to 130	0.803	20.0
BC06494	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.100	0.101	0.0850 to 0.115	99.6	70.0 to 130	0.995	20.0
BC06494	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	10.8	11.1	9.88	8.50 to 11.5	100	70.0 to 130	2.74	20.0
BC06494	Potassium, Total	mg/L	0.0250	0.367	10.0	10.9	10.9	10.4	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC06494	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06494	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0977	0.0982	0.0972	0.0850 to 0.115	97.7	70.0 to 130	0.510	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06494	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0940	0.0979	0.0951	0.0850 to 0.115	94.0	70.0 to 130	4.06	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 13:46

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BC06494

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06494	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.0931	0.0966	0.0984	0.0850 to 0.115	93.1	70.0 to 130	3.69	20.0
BC06494	Total Organic Carbon	mg/L	0.390	1.00	10.0	11.1	10.8	24.8		97.5	80.0 to 120	2.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 13:46

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BC06494

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06494	Solids, Dissolved	mg/L	1.00	25.0			740	50.0	40.0 to 60.0			2.46	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 3/29/22 16:00
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06495

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/5/22 07:00	4/8/22 11:16		1.015	0.416	mg/L	0.030000	0.1015		
* Calcium, Total	4/5/22 07:00	4/8/22 12:49		20.3	52.0	mg/L	1.4007	8.12		
* Iron, Total	4/5/22 07:00	4/8/22 11:16		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	4/5/22 07:00	4/8/22 11:16		1.015	0.130	mg/L	0.007105	0.01999956		
* Magnesium, Total	4/5/22 07:00	4/8/22 11:16		1.015	16.1	mg/L	0.021315	0.406		
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:16		1	5.99	mg/L				
Silicon, Total	4/5/22 07:00	4/8/22 11:16		1.015	2.80	mg/L	0.02030	0.25375		
* Sodium, Total	4/5/22 07:00	4/8/22 11:16		1.015	21.9	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:12		1.015	0.417	mg/L	0.030000	0.1015		
* Calcium, Dissolved	4/4/22 08:25	4/7/22 15:58		20.3	53.7	mg/L	1.4007	8.12		
* Iron, Dissolved	4/4/22 08:25	4/7/22 14:12		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:12		1.015	0.133	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:12		1.015	16.5	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:12		1	5.97	mg/L				
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:12		1.015	2.79	mg/L	0.02030	0.25375		
* Sodium, Dissolved	4/4/22 08:25	4/7/22 14:12		1.015	21.4	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638					
* Antimony, Total	4/5/22 09:00	4/5/22 19:29		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	4/5/22 09:00	4/5/22 19:29		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	4/5/22 09:00	4/5/22 19:29		1.015	0.000232	mg/L	0.000081	0.000203		
* Barium, Total	4/5/22 09:00	4/5/22 19:29		1.015	0.0355	mg/L	0.000102	0.000203		
* Beryllium, Total	4/5/22 09:00	4/5/22 19:29		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/5/22 09:00	4/5/22 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/5/22 09:00	4/5/22 19:29		1.015	0.000433	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/5/22 09:00	4/5/22 19:29		1.015	0.000876	mg/L	0.000068	0.000203		
* Lead, Total	4/5/22 09:00	4/5/22 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	4/5/22 09:00	4/5/22 20:31		5.075	2.29	mg/L	0.000761	0.001015		
* Molybdenum, Total	4/5/22 09:00	4/5/22 19:29		1.015	0.0514	mg/L	0.000102	0.000203		
* Potassium, Total	4/5/22 09:00	4/5/22 19:29		1.015	6.17	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 3/29/22 16:00
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06495

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 19:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	0.000264	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	0.0365	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	0.000681	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 16:10		5.075	1.96	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	0.0480	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	6.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 16:58	4/4/22 16:58		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/11/22 12:15	4/11/22 15:48		1	126	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	290	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	126	mg/L			
Carbonate Alkalinity, (calc.)	4/11/22 12:15	4/11/22 15:48		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 18:50	4/7/22 18:50		1	1.07	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP

Collected: 3/29/22 16:00

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06495

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:23	4/4/22 10:23		1	11.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:31	4/4/22 13:31		1	0.107	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 13:47	4/11/22 13:47		10	108	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/29/22 15:57	3/29/22 15:57			474.84	uS/cm			FA
pH	3/29/22 15:57	3/29/22 15:57			6.44	SU			FA
Temperature	3/29/22 15:57	3/29/22 15:57			19.81	C			FA
Turbidity	3/29/22 15:57	3/29/22 15:57			0.69	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 16:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BC06495

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06500	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.165	0.161	0.105	0.0850 to 0.115	104	70.0 to 130	2.45	20.0
BC06500	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.166	0.166	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC06500	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0921	0.0935	0.0901	0.0850 to 0.115	92.1	70.0 to 130	1.51	20.0
BC06500	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.103	0.102	0.0968	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06500	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0986	0.0987	0.0980	0.0850 to 0.115	98.1	70.0 to 130	0.101	20.0
BC06500	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0976	0.0975	0.0850 to 0.115	98.0	70.0 to 130	0.816	20.0
BC06500	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.164	0.164	0.0983	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC06500	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.169	0.170	0.100	0.0850 to 0.115	105	70.0 to 130	0.590	20.0
BC06500	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0873	0.0870	0.0914	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC06500	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0904	0.0850	0.0908	0.0850 to 0.115	90.4	70.0 to 130	6.16	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06500	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0992	0.0981	0.0976	0.0850 to 0.115	98.9	70.0 to 130	1.12	20.0
BC06500	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0975	0.0966	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.927	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06500	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0978	0.0968	0.0970	0.0850 to 0.115	97.6	70.0 to 130	1.03	20.0
BC06500	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0988	0.0981	0.0955	0.0850 to 0.115	98.6	70.0 to 130	0.711	20.0
BC06500	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.105	0.104	0.0989	0.0850 to 0.115	99.4	70.0 to 130	0.957	20.0
BC06500	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.104	0.104	0.0977	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 16:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BC06495

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06500	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0962	0.0976	0.0973	0.0850 to 0.115	96.2	70.0 to 130	1.44	20.0
BC06500	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0969	0.0969	0.0962	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06500	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	2.07	2.02	0.0985	0.0850 to 0.115	90.0	70.0 to 130	2.44	20.0
BC06500	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	2.04	2.02	0.0976	0.0850 to 0.115	140	70.0 to 130	0.985	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06500	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.0977	0.0983	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.612	20.0
BC06500	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.0984	0.0970	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.43	20.0
BC06500	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	15.1	14.8	9.88	8.50 to 11.5	103	70.0 to 130	2.01	20.0
BC06500	Potassium, Total	mg/L	0.0250	0.367	10.0	15.2	15.2	10.4	8.50 to 11.5	105	70.0 to 130	0.00	20.0
BC06500	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.0965	0.0970	0.0974	0.0850 to 0.115	96.5	70.0 to 130	0.517	20.0
BC06500	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0964	0.0949	0.0972	0.0850 to 0.115	96.4	70.0 to 130	1.57	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06495	Sulfate	mg/L	0.062	2.0	200	329	328	19.6	18.0 to 22.0	110	80.0 to 120	0.304	20.0
BC06500	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0933	0.0939	0.0951	0.0850 to 0.115	93.3	70.0 to 130	0.641	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 16:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BC06495

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06500	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.101	0.100	0.0984	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/29/22 16:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BC06495

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC06495	Alkalinity, Total as CaCO3	mg/L					132	51.3	45.0 to 55.0			4.65	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06500	Solids, Dissolved	mg/L	1.00	25.0			194	50.0	40.0 to 60.0			5.29	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP
Collected: 3/30/22 08:53
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06496

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 11:19		1.015	0.472	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 11:19		1.015	39.6	mg/L	0.070035	0.406	RA
* Iron, Total	4/5/22 07:00	4/8/22 11:19		1.015	0.319	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/8/22 11:19		1.015	0.0615	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/8/22 11:19		1.015	13.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:19		1	5.56	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 11:19		1.015	2.60	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 11:19		1.015	30.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:14		1.015	0.487	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 16:01		20.3	44.6	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 14:14		1.015	0.323	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:14		1.015	0.0635	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:14		1.015	13.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:14		1	5.56	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:14		1.015	2.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 14:14		1.015	30.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 19:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 19:33		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/5/22 09:00	4/5/22 19:33		1.015	0.000967	mg/L	0.000081	0.000203	
* Barium, Total	4/5/22 09:00	4/5/22 19:33		1.015	0.0485	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 19:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/5/22 09:00	4/5/22 19:33		1.015	0.000226	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 19:33		1.015	0.0157	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 20:35		5.075	4.50	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/5/22 09:00	4/5/22 19:33		1.015	0.00425	mg/L	0.000102	0.000203	
* Potassium, Total	4/5/22 09:00	4/5/22 19:33		1.015	7.52	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP
Collected: 3/30/22 08:53
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06496

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 19:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 19:33		1.015	0.0000745	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	0.00113	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	0.0483	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	0.0163	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 16:14		5.075	4.48	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	0.00420	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	7.70	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 13:33		1.015	0.0000753	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 17:00	4/4/22 17:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/12/22 12:30	4/12/22 15:30		1	118	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	280	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	117	mg/L			
Carbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	0.579	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 19:05	4/7/22 19:05		1	1.27	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP

Collected: 3/30/22 08:53

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06496

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 10:24	4/4/22 10:24		1	12.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 13:32	4/4/22 13:32		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:45	4/11/22 14:45		8	125	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/22 08:50	3/30/22 08:50			462.47	uS/cm			FA
pH	3/30/22 08:50	3/30/22 08:50			6.02	SU			FA
Temperature	3/30/22 08:50	3/30/22 08:50			19.61	C			FA
Turbidity	3/30/22 08:50	3/30/22 08:50			0.42	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 08:53

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BC06496

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06500	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.165	0.161	0.105	0.0850 to 0.115	104	70.0 to 130	2.45	20.0
BC06500	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.166	0.166	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC06500	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0921	0.0935	0.0901	0.0850 to 0.115	92.1	70.0 to 130	1.51	20.0
BC06500	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.103	0.102	0.0968	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06500	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0986	0.0987	0.0980	0.0850 to 0.115	98.1	70.0 to 130	0.101	20.0
BC06500	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0976	0.0975	0.0850 to 0.115	98.0	70.0 to 130	0.816	20.0
BC06500	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.164	0.164	0.0983	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC06500	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.169	0.170	0.100	0.0850 to 0.115	105	70.0 to 130	0.590	20.0
BC06500	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0873	0.0870	0.0914	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC06500	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0904	0.0850	0.0908	0.0850 to 0.115	90.4	70.0 to 130	6.16	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06496	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.51	1.50	1.03	0.850 to 1.15	104	70.0 to 130	0.664	20.0
BC06500	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0992	0.0981	0.0976	0.0850 to 0.115	98.9	70.0 to 130	1.12	20.0
BC06500	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0975	0.0966	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.927	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06496	Calcium, Total	mg/L	-0.000205	0.152	5.00	45.8	47.0	5.02	4.25 to 5.75	124	70.0 to 130	2.59	20.0
BC06496	Chloride	mg/L	-0.00786	1.00	10.0	23.0	23.2	10.1	9.00 to 11.0	103	80.0 to 120	0.866	20.0
BC06500	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0978	0.0968	0.0970	0.0850 to 0.115	97.6	70.0 to 130	1.03	20.0
BC06500	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0988	0.0981	0.0955	0.0850 to 0.115	98.6	70.0 to 130	0.711	20.0
BC06500	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.105	0.104	0.0989	0.0850 to 0.115	99.4	70.0 to 130	0.957	20.0
BC06500	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.104	0.104	0.0977	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BC06496	Fluoride	mg/L	-0.0794	0.125	2.50	2.62	2.62	2.60	2.25 to 2.75	105	80.0 to 120	0.00	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 08:53

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BC06496

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06496	Iron, Total	mg/L	0.000375	0.0176	0.2	0.529	0.520	0.202	0.170 to 0.230	105	70.0 to 130	1.72	20.0
BC06500	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0962	0.0976	0.0973	0.0850 to 0.115	96.2	70.0 to 130	1.44	20.0
BC06500	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0969	0.0969	0.0962	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06496	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.267	0.265	0.201	0.170 to 0.230	103	70.0 to 130	0.752	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06496	Magnesium, Total	mg/L	0.000546	0.0462	5.00	18.4	18.1	5.23	4.25 to 5.75	106	70.0 to 130	1.64	20.0
BC06500	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	2.07	2.02	0.0985	0.0850 to 0.115	90.0	70.0 to 130	2.44	20.0
BC06500	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	2.04	2.02	0.0976	0.0850 to 0.115	140	70.0 to 130	0.985	20.0
BC06496	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00397	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.252	20.0
BC06500	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.0977	0.0983	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.612	20.0
BC06500	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.0984	0.0970	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.43	20.0
BC06500	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	15.1	14.8	9.88	8.50 to 11.5	103	70.0 to 130	2.01	20.0
BC06500	Potassium, Total	mg/L	0.0250	0.367	10.0	15.2	15.2	10.4	8.50 to 11.5	105	70.0 to 130	0.00	20.0
BC06500	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.0965	0.0970	0.0974	0.0850 to 0.115	96.5	70.0 to 130	0.517	20.0
BC06500	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0964	0.0949	0.0972	0.0850 to 0.115	96.4	70.0 to 130	1.57	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06496	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.62	3.59	1.02	0.850 to 1.15	102	70.0 to 130	0.832	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06496	Sodium, Total	mg/L	0.00593	0.0660	5.00	36.5	36.3	5.15	4.25 to 5.75	116	70.0 to 130	0.549	20.0
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06500	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0933	0.0939	0.0951	0.0850 to 0.115	93.3	70.0 to 130	0.641	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 08:53

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BC06496

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06500	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.101	0.100	0.0984	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 08:53

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BC06496

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06500	Alkalinity, Total as CaCO3	mg/L					48.1	50.1	45.0 to 55.0			6.00	10.0
BC06496	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.07	-0.052	1.99	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BC06500	Solids, Dissolved	mg/L	1.00	25.0			194	50.0	40.0 to 60.0			5.29	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11 DUP

Location Code: WMWGREAP
Collected: 3/30/22 08:53
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06497

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 11:34		1.015	0.465	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 11:34		1.015	40.2	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/8/22 11:34		1.015	0.304	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/8/22 11:34		1.015	0.0619	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/8/22 11:34		1.015	13.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:34		1	5.54	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 11:34		1.015	2.59	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 11:34		1.015	30.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:17		1.015	0.482	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 16:04		20.3	43.4	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 14:17		1.015	0.326	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:17		1.015	0.0641	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:17		1.015	13.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:17		1	5.56	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:17		1.015	2.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 14:17		1.015	31.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 19:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 19:37		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/5/22 09:00	4/5/22 19:37		1.015	0.000959	mg/L	0.000081	0.000203	
* Barium, Total	4/5/22 09:00	4/5/22 19:37		1.015	0.0503	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 19:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 19:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/5/22 09:00	4/5/22 19:37		1.015	0.000244	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 19:37		1.015	0.0155	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 19:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 20:38		5.075	4.37	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/5/22 09:00	4/5/22 19:37		1.015	0.00403	mg/L	0.000102	0.000203	
* Potassium, Total	4/5/22 09:00	4/5/22 19:37		1.015	7.37	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11 DUP

Location Code: WMWGREAP
Collected: 3/30/22 08:53
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06497

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 19:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 19:37		1.015	0.0000803	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	0.00108	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	0.0481	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	0.0158	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 16:17		5.075	4.41	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	0.00430	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	7.61	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 13:37		1.015	0.0000743	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 17:08	4/4/22 17:08		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/12/22 12:30	4/12/22 15:30		1	127	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	277	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	127	mg/L			
Carbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 19:24	4/7/22 19:24		1	1.29	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-11 DUP

Location Code: WMWGREAP

Collected: 3/30/22 08:53

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06497

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 11:23	4/4/22 11:23		1	13.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 15:47	4/4/22 15:47		1	0.0814	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:47	4/11/22 14:47		8	141	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/22 08:50	3/30/22 08:50			462.47	uS/cm			FA
pH	3/30/22 08:50	3/30/22 08:50			6.02	SU			FA
Temperature	3/30/22 08:50	3/30/22 08:50			19.61	C			FA
Turbidity	3/30/22 08:50	3/30/22 08:50			0.42	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/22 08:53
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-11 DUP

Laboratory ID Number: BC06497

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06500	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.165	0.161	0.105	0.0850 to 0.115	104	70.0 to 130	2.45	20.0
BC06500	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.166	0.166	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC06500	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0921	0.0935	0.0901	0.0850 to 0.115	92.1	70.0 to 130	1.51	20.0
BC06500	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.103	0.102	0.0968	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06500	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0986	0.0987	0.0980	0.0850 to 0.115	98.1	70.0 to 130	0.101	20.0
BC06500	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0976	0.0975	0.0850 to 0.115	98.0	70.0 to 130	0.816	20.0
BC06500	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.164	0.164	0.0983	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC06500	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.169	0.170	0.100	0.0850 to 0.115	105	70.0 to 130	0.590	20.0
BC06500	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0873	0.0870	0.0914	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC06500	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0904	0.0850	0.0908	0.0850 to 0.115	90.4	70.0 to 130	6.16	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06500	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.35	1.35	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC06500	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0992	0.0981	0.0976	0.0850 to 0.115	98.9	70.0 to 130	1.12	20.0
BC06500	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0975	0.0966	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.927	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06500	Calcium, Total	mg/L	-0.000205	0.152	5.00	32.9	33.2	5.02	4.25 to 5.75	102	70.0 to 130	0.908	20.0
BC06500	Chloride	mg/L	0.0367	1.00	10.0	19.5	19.3	10.5	9.00 to 11.0	114	80.0 to 120	1.03	20.0
BC06500	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0978	0.0968	0.0970	0.0850 to 0.115	97.6	70.0 to 130	1.03	20.0
BC06500	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0988	0.0981	0.0955	0.0850 to 0.115	98.6	70.0 to 130	0.711	20.0
BC06500	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.105	0.104	0.0989	0.0850 to 0.115	99.4	70.0 to 130	0.957	20.0
BC06500	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.104	0.104	0.0977	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BC06500	Fluoride	mg/L	0.0302	0.125	2.50	2.50	2.51	2.59	2.25 to 2.75	97.1	80.0 to 120	0.399	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 08:53

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-11 DUP

Laboratory ID Number: BC06497

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06500	Iron, Total	mg/L	0.000375	0.0176	0.2	0.350	0.351	0.202	0.170 to 0.230	98.0	70.0 to 130	0.285	20.0
BC06500	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0962	0.0976	0.0973	0.0850 to 0.115	96.2	70.0 to 130	1.44	20.0
BC06500	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0969	0.0969	0.0962	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06500	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.275	0.273	0.201	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06500	Magnesium, Total	mg/L	0.000546	0.0462	5.00	12.8	12.8	5.23	4.25 to 5.75	99.0	70.0 to 130	0.00	20.0
BC06500	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	2.07	2.02	0.0985	0.0850 to 0.115	90.0	70.0 to 130	2.44	20.0
BC06500	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	2.04	2.02	0.0976	0.0850 to 0.115	140	70.0 to 130	0.985	20.0
BC06500	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00399	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06500	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.0977	0.0983	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.612	20.0
BC06500	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.0984	0.0970	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.43	20.0
BC06500	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	15.1	14.8	9.88	8.50 to 11.5	103	70.0 to 130	2.01	20.0
BC06500	Potassium, Total	mg/L	0.0250	0.367	10.0	15.2	15.2	10.4	8.50 to 11.5	105	70.0 to 130	0.00	20.0
BC06500	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.0965	0.0970	0.0974	0.0850 to 0.115	96.5	70.0 to 130	0.517	20.0
BC06500	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0964	0.0949	0.0972	0.0850 to 0.115	96.4	70.0 to 130	1.57	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06500	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.94	3.94	1.02	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06500	Sodium, Total	mg/L	0.00593	0.0660	5.00	23.3	23.2	5.15	4.25 to 5.75	96.0	70.0 to 130	0.430	20.0
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06500	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0933	0.0939	0.0951	0.0850 to 0.115	93.3	70.0 to 130	0.641	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 08:53

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-11 DUP

Laboratory ID Number: BC06497

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06500	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.101	0.100	0.0984	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 08:53

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-11 DUP

Laboratory ID Number: BC06497

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC06500	Alkalinity, Total as CaCO3	mg/L					48.1	50.1	45.0 to 55.0			6.00	10.0
BC06500	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.14	0.057	2.01	1.80 to 2.20	107	90.0 to 110	0.00	15.0
BC06500	Solids, Dissolved	mg/L	1.00	25.0			194	50.0	40.0 to 60.0			5.29	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 3/30/22 10:00
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06498

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 11:36		1.015	0.696	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 13:01		20.3	51.0	mg/L	1.4007	8.12	
* Iron, Total	4/5/22 07:00	4/8/22 11:36		1.015	0.0331	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/8/22 11:36		1.015	0.0820	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/8/22 11:36		1.015	16.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:36		1	8.54	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 11:36		1.015	3.99	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 11:36		1.015	32.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:20		1.015	0.718	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 16:07		20.3	58.8	mg/L	1.4007	8.12	
* Iron, Dissolved	4/4/22 08:25	4/7/22 14:20		1.015	0.0152	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:20		1.015	0.0798	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:20		1.015	17.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:20		1	8.43	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:20		1.015	3.94	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 14:20		1.015	32.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 19:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 19:40		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/5/22 09:00	4/5/22 19:40		1.015	0.000167	mg/L	0.000081	0.000203	J
* Barium, Total	4/5/22 09:00	4/5/22 19:40		1.015	0.112	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 19:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 19:40		1.015	0.0000683	mg/L	0.000068	0.000203	J
* Chromium, Total	4/5/22 09:00	4/5/22 19:40		1.015	0.000217	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 19:40		1.015	0.00284	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 20:42		5.075	1.94	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/5/22 09:00	4/5/22 19:40		1.015	0.00682	mg/L	0.000102	0.000203	
* Potassium, Total	4/5/22 09:00	4/5/22 19:40		1.015	8.06	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 3/30/22 10:00
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06498

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 19:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 19:40		1.015	0.000107	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	0.000128	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	0.109	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	0.000144	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	0.00220	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 16:21		5.075	1.78	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	0.00742	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	8.12	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 13:40		1.015	0.000117	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 17:09	4/4/22 17:09		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/12/22 12:30	4/12/22 15:30		1	190	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	320	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	190	mg/L			
Carbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 19:45	4/7/22 19:45		1	1.26	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 3/30/22 10:00
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06498

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 11:18	4/4/22 11:18		1	12.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 15:48	4/4/22 15:48		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:48	4/11/22 14:48		8	115	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/22 09:57	3/30/22 09:57			527.48	uS/cm			FA
pH	3/30/22 09:57	3/30/22 09:57			6.09	SU			FA
Temperature	3/30/22 09:57	3/30/22 09:57			21.10	C			FA
Turbidity	3/30/22 09:57	3/30/22 09:57			0.33	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 10:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BC06498

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06500	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.165	0.161	0.105	0.0850 to 0.115	104	70.0 to 130	2.45	20.0
BC06500	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.166	0.166	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC06500	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0921	0.0935	0.0901	0.0850 to 0.115	92.1	70.0 to 130	1.51	20.0
BC06500	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.103	0.102	0.0968	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06500	Arsenic, Dissolved	mg/L	0.000088	0.000176	0.100	0.0986	0.0987	0.0980	0.0850 to 0.115	98.1	70.0 to 130	0.101	20.0
BC06500	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0976	0.0975	0.0850 to 0.115	98.0	70.0 to 130	0.816	20.0
BC06500	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.164	0.164	0.0983	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC06500	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.169	0.170	0.100	0.0850 to 0.115	105	70.0 to 130	0.590	20.0
BC06500	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0873	0.0870	0.0914	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC06500	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0904	0.0850	0.0908	0.0850 to 0.115	90.4	70.0 to 130	6.16	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06500	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.35	1.35	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC06500	Cadmium, Dissolved	mg/L	-0.000082	0.000147	0.100	0.0992	0.0981	0.0976	0.0850 to 0.115	98.9	70.0 to 130	1.12	20.0
BC06500	Cadmium, Total	mg/L	0.000083	0.000147	0.100	0.0975	0.0966	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.927	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06500	Calcium, Total	mg/L	-0.000205	0.152	5.00	32.9	33.2	5.02	4.25 to 5.75	102	70.0 to 130	0.908	20.0
BC06500	Chloride	mg/L	0.0367	1.00	10.0	19.5	19.3	10.5	9.00 to 11.0	114	80.0 to 120	1.03	20.0
BC06500	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0978	0.0968	0.0970	0.0850 to 0.115	97.6	70.0 to 130	1.03	20.0
BC06500	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0988	0.0981	0.0955	0.0850 to 0.115	98.6	70.0 to 130	0.711	20.0
BC06500	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.105	0.104	0.0989	0.0850 to 0.115	99.4	70.0 to 130	0.957	20.0
BC06500	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.104	0.104	0.0977	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BC06500	Fluoride	mg/L	0.0302	0.125	2.50	2.50	2.51	2.59	2.25 to 2.75	97.1	80.0 to 120	0.399	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/22 10:00
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BC06498

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06500	Iron, Total	mg/L	0.000375	0.0176	0.2	0.350	0.351	0.202	0.170 to 0.230	98.0	70.0 to 130	0.285	20.0
BC06500	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0962	0.0976	0.0973	0.0850 to 0.115	96.2	70.0 to 130	1.44	20.0
BC06500	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0969	0.0969	0.0962	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06500	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.275	0.273	0.201	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06500	Magnesium, Total	mg/L	0.000546	0.0462	5.00	12.8	12.8	5.23	4.25 to 5.75	99.0	70.0 to 130	0.00	20.0
BC06500	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	2.07	2.02	0.0985	0.0850 to 0.115	90.0	70.0 to 130	2.44	20.0
BC06500	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	2.04	2.02	0.0976	0.0850 to 0.115	140	70.0 to 130	0.985	20.0
BC06500	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00399	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06500	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.0977	0.0983	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.612	20.0
BC06500	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.0984	0.0970	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.43	20.0
BC06500	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	15.1	14.8	9.88	8.50 to 11.5	103	70.0 to 130	2.01	20.0
BC06500	Potassium, Total	mg/L	0.0250	0.367	10.0	15.2	15.2	10.4	8.50 to 11.5	105	70.0 to 130	0.00	20.0
BC06500	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.0965	0.0970	0.0974	0.0850 to 0.115	96.5	70.0 to 130	0.517	20.0
BC06500	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0964	0.0949	0.0972	0.0850 to 0.115	96.4	70.0 to 130	1.57	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06500	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.94	3.94	1.02	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06500	Sodium, Total	mg/L	0.00593	0.0660	5.00	23.3	23.2	5.15	4.25 to 5.75	96.0	70.0 to 130	0.430	20.0
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06500	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0933	0.0939	0.0951	0.0850 to 0.115	93.3	70.0 to 130	0.641	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 10:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BC06498

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06500	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.101	0.100	0.0984	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 10:00

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BC06498

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06500	Alkalinity, Total as CaCO3	mg/L					48.1	50.1	45.0 to 55.0			6.00	10.0
BC06500	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.14	0.057	2.01	1.80 to 2.20	107	90.0 to 110	0.00	15.0
BC06500	Solids, Dissolved	mg/L	1.00	25.0			194	50.0	40.0 to 60.0			5.29	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP
Collected: 3/30/22 11:17
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06499

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	4/5/22 07:00	4/8/22 11:39		1.015	0.0985	mg/L	0.030000	0.1015	J
* Calcium, Total	4/5/22 07:00	4/8/22 11:39		1.015	13.4	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/8/22 11:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/8/22 11:39		1.015	0.0704	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/8/22 11:39		1.015	3.64	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:39		1	8.60	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 11:39		1.015	4.02	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 11:39		1.015	6.31	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:23		1.015	0.101	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/4/22 08:25	4/7/22 14:23		1.015	13.9	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:25	4/7/22 14:23		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:23		1.015	0.0717	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:23		1.015	3.77	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:23		1	8.58	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:23		1.015	4.01	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 14:23		1.015	6.47	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: ABB			Preparation Method: EPA 1638			
* Antimony, Total	4/5/22 09:00	4/5/22 19:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 19:44		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/5/22 09:00	4/5/22 19:44		1.015	0.000139	mg/L	0.000081	0.000203	J
* Barium, Total	4/5/22 09:00	4/5/22 19:44		1.015	0.0253	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 19:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 19:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/5/22 09:00	4/5/22 19:44		1.015	0.000237	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 19:44		1.015	0.000181	mg/L	0.000068	0.000203	J
* Lead, Total	4/5/22 09:00	4/5/22 19:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 19:44		1.015	0.0906	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/5/22 09:00	4/5/22 19:44		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/5/22 09:00	4/5/22 19:44		1.015	2.65	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP
Collected: 3/30/22 11:17
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06499

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 19:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 19:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	0.000228	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	0.0252	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	0.000155	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	0.0898	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	2.63	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 17:10	4/4/22 17:10		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/12/22 12:30	4/12/22 15:30		1	30.5	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	84.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	30.5	mg/L			
Carbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 20:02	4/7/22 20:02		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP
Collected: 3/30/22 11:17
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06499

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 11:19	4/4/22 11:19		1	3.44	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 15:49	4/4/22 15:49		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:49	4/11/22 14:49		1	36.4	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/22 11:17	3/30/22 11:17			134.45	uS/cm			FA
pH	3/30/22 11:17	3/30/22 11:17			5.40	SU			FA
Temperature	3/30/22 11:17	3/30/22 11:17			17.78	C			FA
Turbidity	3/30/22 11:17	3/30/22 11:17			0.33	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 11:17

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BC06499

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06500	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.165	0.161	0.105	0.0850 to 0.115	104	70.0 to 130	2.45	20.0
BC06500	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.166	0.166	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC06500	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0921	0.0935	0.0901	0.0850 to 0.115	92.1	70.0 to 130	1.51	20.0
BC06500	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.103	0.102	0.0968	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06500	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0986	0.0987	0.0980	0.0850 to 0.115	98.1	70.0 to 130	0.101	20.0
BC06500	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0976	0.0975	0.0850 to 0.115	98.0	70.0 to 130	0.816	20.0
BC06500	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.164	0.164	0.0983	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC06500	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.169	0.170	0.100	0.0850 to 0.115	105	70.0 to 130	0.590	20.0
BC06500	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0873	0.0870	0.0914	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC06500	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0904	0.0850	0.0908	0.0850 to 0.115	90.4	70.0 to 130	6.16	20.0
BC06499	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.13	1.13	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06500	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.35	1.35	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC06500	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0992	0.0981	0.0976	0.0850 to 0.115	98.9	70.0 to 130	1.12	20.0
BC06500	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0975	0.0966	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.927	20.0
BC06499	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	19.3	18.9	5.17	4.25 to 5.75	108	70.0 to 130	2.09	20.0
BC06500	Calcium, Total	mg/L	-0.000205	0.152	5.00	32.9	33.2	5.02	4.25 to 5.75	102	70.0 to 130	0.908	20.0
BC06500	Chloride	mg/L	0.0367	1.00	10.0	19.5	19.3	10.5	9.00 to 11.0	114	80.0 to 120	1.03	20.0
BC06500	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0978	0.0968	0.0970	0.0850 to 0.115	97.6	70.0 to 130	1.03	20.0
BC06500	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0988	0.0981	0.0955	0.0850 to 0.115	98.6	70.0 to 130	0.711	20.0
BC06500	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.105	0.104	0.0989	0.0850 to 0.115	99.4	70.0 to 130	0.957	20.0
BC06500	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.104	0.104	0.0977	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BC06500	Fluoride	mg/L	0.0302	0.125	2.50	2.50	2.51	2.59	2.25 to 2.75	97.1	80.0 to 120	0.399	20.0
BC06499	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 11:17

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BC06499

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06500	Iron, Total	mg/L	0.000375	0.0176	0.2	0.350	0.351	0.202	0.170 to 0.230	98.0	70.0 to 130	0.285	20.0
BC06500	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0962	0.0976	0.0973	0.0850 to 0.115	96.2	70.0 to 130	1.44	20.0
BC06500	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0969	0.0969	0.0962	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BC06499	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.274	0.282	0.203	0.170 to 0.230	101	70.0 to 130	2.88	20.0
BC06500	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.275	0.273	0.201	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BC06499	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	9.10	9.13	5.38	4.25 to 5.75	107	70.0 to 130	0.329	20.0
BC06500	Magnesium, Total	mg/L	0.000546	0.0462	5.00	12.8	12.8	5.23	4.25 to 5.75	99.0	70.0 to 130	0.00	20.0
BC06500	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	2.07	2.02	0.0985	0.0850 to 0.115	90.0	70.0 to 130	2.44	20.0
BC06500	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	2.04	2.02	0.0976	0.0850 to 0.115	140	70.0 to 130	0.985	20.0
BC06500	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00399	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06500	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.0977	0.0983	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.612	20.0
BC06500	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.0984	0.0970	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.43	20.0
BC06500	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	15.1	14.8	9.88	8.50 to 11.5	103	70.0 to 130	2.01	20.0
BC06500	Potassium, Total	mg/L	0.0250	0.367	10.0	15.2	15.2	10.4	8.50 to 11.5	105	70.0 to 130	0.00	20.0
BC06500	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.0965	0.0970	0.0974	0.0850 to 0.115	96.5	70.0 to 130	0.517	20.0
BC06500	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0964	0.0949	0.0972	0.0850 to 0.115	96.4	70.0 to 130	1.57	20.0
BC06499	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	5.02	5.05	1.02	0.850 to 1.15	101	70.0 to 130	0.596	20.0
BC06500	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.94	3.94	1.02	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC06499	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	11.4	11.8	5.15	4.25 to 5.75	98.6	70.0 to 130	3.45	20.0
BC06500	Sodium, Total	mg/L	0.00593	0.0660	5.00	23.3	23.2	5.15	4.25 to 5.75	96.0	70.0 to 130	0.430	20.0
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06500	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0933	0.0939	0.0951	0.0850 to 0.115	93.3	70.0 to 130	0.641	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 11:17

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BC06499

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06500	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.101	0.100	0.0984	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 11:17

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BC06499

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BC06500	Alkalinity, Total as CaCO3	mg/L					48.1	50.1	45.0 to 55.0			6.00	10.0
BC06500	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.14	0.057	2.01	1.80 to 2.20	107	90.0 to 110	0.00	15.0
BC06500	Solids, Dissolved	mg/L	1.00	25.0			194	50.0	40.0 to 60.0			5.29	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP
Collected: 3/30/22 12:11
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06500

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/8/22 11:42		1.015	0.330	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/8/22 11:42		1.015	27.8	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/8/22 11:42		1.015	0.154	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/8/22 11:42		1.015	0.0726	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/8/22 11:42		1.015	7.85	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/8/22 11:42		1	6.36	mg/L			
Silicon, Total	4/5/22 07:00	4/8/22 11:42		1.015	2.97	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/8/22 11:42		1.015	18.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:25	4/7/22 14:38		1.015	0.331	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:25	4/7/22 14:38		1.015	29.7	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:25	4/7/22 14:38		1.015	0.141	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:25	4/7/22 14:38		1.015	0.0732	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:25	4/7/22 14:38		1.015	8.06	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:25	4/7/22 14:38		1	6.25	mg/L			
Silicon, Dissolved	4/4/22 08:25	4/7/22 14:38		1.015	2.92	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:25	4/7/22 14:38		1.015	18.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: ABB			Preparation Method: EPA 1638				
* Antimony, Total	4/5/22 09:00	4/5/22 19:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/5/22 09:00	4/5/22 19:48		1.015	0.0667	mg/L	0.006090	0.01015	
* Arsenic, Total	4/5/22 09:00	4/5/22 19:48		1.015	0.000409	mg/L	0.000081	0.000203	
* Barium, Total	4/5/22 09:00	4/5/22 19:48		1.015	0.0642	mg/L	0.000102	0.000203	
* Beryllium, Total	4/5/22 09:00	4/5/22 19:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/5/22 09:00	4/5/22 19:48		1.015	0.000286	mg/L	0.000068	0.000203	
* Chromium, Total	4/5/22 09:00	4/5/22 19:48		1.015	0.000211	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/5/22 09:00	4/5/22 19:48		1.015	0.00562	mg/L	0.000068	0.000203	
* Lead, Total	4/5/22 09:00	4/5/22 19:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/5/22 09:00	4/5/22 20:46		5.075	1.90	mg/L	0.000761	0.001015	RA
* Molybdenum, Total	4/5/22 09:00	4/5/22 19:48		1.015	0.000187	mg/L	0.000102	0.000203	J
* Potassium, Total	4/5/22 09:00	4/5/22 19:48		1.015	4.72	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP
Collected: 3/30/22 12:11
Customer ID:
Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06500

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/5/22 09:00	4/5/22 19:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/5/22 09:00	4/5/22 19:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	0.0608	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	0.000466	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	0.0645	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	0.000296	mg/L	0.000068	0.000203	
* Chromium, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	0.000207	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	0.00564	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/5/22 09:01	4/5/22 16:35		5.075	1.98	mg/L	0.000761	0.001015	RA
* Molybdenum, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	0.000186	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	4.78	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/5/22 09:01	4/5/22 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/1/22 13:52	4/1/22 20:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/4/22 17:10	4/4/22 17:10		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/12/22 12:30	4/12/22 15:30		1	45.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/1/22 10:51	4/5/22 10:10		1	184	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	45.3	mg/L			
Carbonate Alkalinity, (calc.)	4/12/22 12:30	4/12/22 15:30		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 20:20	4/7/22 20:20		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP

Collected: 3/30/22 12:11

Customer ID:

Submittal Date: 3/31/22 10:44

Laboratory ID Number: BC06500

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/4/22 11:24	4/4/22 11:24		1	8.12	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/4/22 15:50	4/4/22 15:50		1	0.0724	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:50	4/11/22 14:50		5	106	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/30/22 12:08	3/30/22 12:08			313.62	uS/cm			FA
pH	3/30/22 12:08	3/30/22 12:08			5.72	SU			FA
Temperature	3/30/22 12:08	3/30/22 12:08			18.99	C			FA
Turbidity	3/30/22 12:08	3/30/22 12:08			1.21	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/22 12:11
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BC06500

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC06500	Aluminum, Dissolved	mg/L	0.000285	0.010	0.100	0.165	0.161	0.105	0.0850 to 0.115	104	70.0 to 130	2.45	20.0
BC06500	Aluminum, Total	mg/L	0.000881	0.010	0.100	0.166	0.166	0.101	0.0850 to 0.115	99.3	70.0 to 130	0.00	20.0
BC06500	Antimony, Dissolved	mg/L	0.000311	0.00100	0.100	0.0921	0.0935	0.0901	0.0850 to 0.115	92.1	70.0 to 130	1.51	20.0
BC06500	Antimony, Total	mg/L	0.000263	0.00100	0.100	0.103	0.102	0.0968	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06500	Arsenic, Dissolved	mg/L	0.0000088	0.000176	0.100	0.0986	0.0987	0.0980	0.0850 to 0.115	98.1	70.0 to 130	0.101	20.0
BC06500	Arsenic, Total	mg/L	-0.0000156	0.000176	0.100	0.0984	0.0976	0.0975	0.0850 to 0.115	98.0	70.0 to 130	0.816	20.0
BC06500	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.164	0.164	0.0983	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BC06500	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.169	0.170	0.100	0.0850 to 0.115	105	70.0 to 130	0.590	20.0
BC06500	Beryllium, Dissolved	mg/L	0.000149	0.000880	0.100	0.0873	0.0870	0.0914	0.0850 to 0.115	87.3	70.0 to 130	0.344	20.0
BC06500	Beryllium, Total	mg/L	0.0000759	0.000880	0.100	0.0904	0.0850	0.0908	0.0850 to 0.115	90.4	70.0 to 130	6.16	20.0
BC06500	Boron, Dissolved	mg/L	-0.00027	0.0650	1.00	1.36	1.35	1.04	0.850 to 1.15	103	70.0 to 130	0.738	20.0
BC06500	Boron, Total	mg/L	-0.000053	0.0650	1.00	1.35	1.35	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC06500	Cadmium, Dissolved	mg/L	-0.0000082	0.000147	0.100	0.0992	0.0981	0.0976	0.0850 to 0.115	98.9	70.0 to 130	1.12	20.0
BC06500	Cadmium, Total	mg/L	0.0000083	0.000147	0.100	0.0975	0.0966	0.101	0.0850 to 0.115	97.2	70.0 to 130	0.927	20.0
BC06500	Calcium, Dissolved	mg/L	0.0173	0.152	5.00	34.4	33.9	5.17	4.25 to 5.75	94.0	70.0 to 130	1.46	20.0
BC06500	Calcium, Total	mg/L	-0.000205	0.152	5.00	32.9	33.2	5.02	4.25 to 5.75	102	70.0 to 130	0.908	20.0
BC06500	Chloride	mg/L	0.0367	1.00	10.0	19.5	19.3	10.5	9.00 to 11.0	114	80.0 to 120	1.03	20.0
BC06500	Chromium, Dissolved	mg/L	-0.0000157	0.000440	0.100	0.0978	0.0968	0.0970	0.0850 to 0.115	97.6	70.0 to 130	1.03	20.0
BC06500	Chromium, Total	mg/L	-0.0000836	0.000440	0.100	0.0988	0.0981	0.0955	0.0850 to 0.115	98.6	70.0 to 130	0.711	20.0
BC06500	Cobalt, Dissolved	mg/L	0.0000104	0.000147	0.100	0.105	0.104	0.0989	0.0850 to 0.115	99.4	70.0 to 130	0.957	20.0
BC06500	Cobalt, Total	mg/L	0.0000021	0.000147	0.100	0.104	0.104	0.0977	0.0850 to 0.115	98.4	70.0 to 130	0.00	20.0
BC06500	Fluoride	mg/L	0.0302	0.125	2.50	2.50	2.51	2.59	2.25 to 2.75	97.1	80.0 to 120	0.399	20.0
BC06500	Iron, Dissolved	mg/L	0.000098	0.0176	0.2	0.337	0.336	0.203	0.170 to 0.230	98.0	70.0 to 130	0.297	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/22 12:11
Customer ID:
Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BC06500

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06500	Iron, Total	mg/L	0.000375	0.0176	0.2	0.350	0.351	0.202	0.170 to 0.230	98.0	70.0 to 130	0.285	20.0
BC06500	Lead, Dissolved	mg/L	0.0000472	0.000147	0.100	0.0962	0.0976	0.0973	0.0850 to 0.115	96.2	70.0 to 130	1.44	20.0
BC06500	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0969	0.0969	0.0962	0.0850 to 0.115	96.9	70.0 to 130	0.00	20.0
BC06500	Lithium, Dissolved	mg/L	0.000339	0.0154	0.200	0.281	0.285	0.203	0.170 to 0.230	104	70.0 to 130	1.41	20.0
BC06500	Lithium, Total	mg/L	0.000168	0.0154	0.200	0.275	0.273	0.201	0.170 to 0.230	101	70.0 to 130	0.730	20.0
BC06500	Magnesium, Dissolved	mg/L	-0.00935	0.0462	5.00	13.4	13.3	5.38	4.25 to 5.75	107	70.0 to 130	0.749	20.0
BC06500	Magnesium, Total	mg/L	0.000546	0.0462	5.00	12.8	12.8	5.23	4.25 to 5.75	99.0	70.0 to 130	0.00	20.0
BC06500	Manganese, Dissolved	mg/L	-0.0000048	0.0002	0.100	2.07	2.02	0.0985	0.0850 to 0.115	90.0	70.0 to 130	2.44	20.0
BC06500	Manganese, Total	mg/L	-0.0000068	0.0002	0.100	2.04	2.02	0.0976	0.0850 to 0.115	140	70.0 to 130	0.985	20.0
BC06500	Mercury, Total by CVAA	mg/L	-0.00021	0.000500	0.004	0.00398	0.00399	0.0039	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06500	Molybdenum, Dissolved	mg/L	0.0000276	0.0002	0.100	0.0977	0.0983	0.0990	0.0850 to 0.115	97.5	70.0 to 130	0.612	20.0
BC06500	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.0984	0.0970	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.43	20.0
BC06500	Potassium, Dissolved	mg/L	0.0249	0.367	10.0	15.1	14.8	9.88	8.50 to 11.5	103	70.0 to 130	2.01	20.0
BC06500	Potassium, Total	mg/L	0.0250	0.367	10.0	15.2	15.2	10.4	8.50 to 11.5	105	70.0 to 130	0.00	20.0
BC06500	Selenium, Dissolved	mg/L	-0.000128	0.00100	0.100	0.0965	0.0970	0.0974	0.0850 to 0.115	96.5	70.0 to 130	0.517	20.0
BC06500	Selenium, Total	mg/L	-0.000346	0.00100	0.100	0.0964	0.0949	0.0972	0.0850 to 0.115	96.4	70.0 to 130	1.57	20.0
BC06500	Silicon, Dissolved	mg/L	0.000668	0.0440	1.00	3.93	3.91	1.02	0.850 to 1.15	101	70.0 to 130	0.510	20.0
BC06500	Silicon, Total	mg/L	0.000385	0.0440	1.00	3.94	3.94	1.02	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC06500	Sodium, Dissolved	mg/L	0.00947	0.0660	5.00	23.8	24.2	5.15	4.25 to 5.75	104	70.0 to 130	1.67	20.0
BC06500	Sodium, Total	mg/L	0.00593	0.0660	5.00	23.3	23.2	5.15	4.25 to 5.75	96.0	70.0 to 130	0.430	20.0
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06500	Thallium, Dissolved	mg/L	0.0000311	0.000147	0.100	0.0933	0.0939	0.0951	0.0850 to 0.115	93.3	70.0 to 130	0.641	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 12:11

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BC06500

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06500	Thallium, Total	mg/L	0.0000141	0.000147	0.100	0.101	0.100	0.0984	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/30/22 12:11

Customer ID:

Delivery Date: 3/31/22 10:44

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BC06500

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC06500	Alkalinity, Total as CaCO3	mg/L					48.1	50.1	45.0 to 55.0			6.00	10.0
BC06500	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.14	0.057	2.01	1.80 to 2.20	107	90.0 to 110	0.00	15.0
BC06500	Solids, Dissolved	mg/L	1.00	25.0			194	50.0	40.0 to 60.0			5.29	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP
Collected: 4/4/22 13:05
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06745

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:04		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/11/22 14:00	4/12/22 10:04		1.015	6.70	mg/L	0.070035	0.406	
* Iron, Total	4/11/22 14:00	4/12/22 10:04		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/11/22 14:00	4/12/22 10:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 10:04		1.015	0.899	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:04		1	12.6	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:04		1.015	5.88	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:04		1.015	4.35	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 09:54		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/11/22 15:57	4/12/22 09:54		1.015	7.04	mg/L	0.070035	0.406	
* Iron, Dissolved	4/11/22 15:57	4/12/22 09:54		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/11/22 15:57	4/12/22 09:54		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 09:54		1.015	0.886	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 09:54		1	13.0	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 09:54		1.015	6.08	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 09:54		1.015	4.14	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/6/22 09:22	4/6/22 14:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/6/22 09:22	4/6/22 14:29		1.015	0.0677	mg/L	0.006090	0.01015	
* Arsenic, Total	4/6/22 09:22	4/6/22 14:29		1.015	0.000112	mg/L	0.000081	0.000203	J
* Barium, Total	4/6/22 09:22	4/6/22 14:29		1.015	0.0335	mg/L	0.000102	0.000203	
* Beryllium, Total	4/6/22 09:22	4/6/22 14:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/6/22 09:22	4/6/22 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/6/22 09:22	4/6/22 14:29		1.015	0.000295	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/6/22 09:22	4/6/22 14:29		1.015	0.000448	mg/L	0.000068	0.000203	
* Lead, Total	4/6/22 09:22	4/6/22 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/6/22 09:22	4/6/22 14:29		1.015	0.0443	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/6/22 09:22	4/6/22 14:29		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/6/22 09:22	4/6/22 14:29		1.015	0.462	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP
Collected: 4/4/22 13:05
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06745

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/6/22 09:22	4/6/22 14:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/6/22 09:22	4/6/22 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	0.0276	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	0.0345	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	0.000266	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	0.000447	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	0.0000798	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	0.0452	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	0.487	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/6/22 10:05	4/6/22 11:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/7/22 14:37	4/7/22 18:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:25	4/11/22 15:25		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/13/22 08:30	4/13/22 11:14		1	12.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	40.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	12.8	mg/L			
Carbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 20:37	4/7/22 20:37		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP

Collected: 4/4/22 13:05

Customer ID:

Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06745

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 12:39	4/6/22 12:39		1	2.93	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 13:59	4/6/22 13:59		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:51	4/11/22 14:51		1	12.5	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/4/22 13:02	4/4/22 13:02			61.70	uS/cm			FA
pH	4/4/22 13:02	4/4/22 13:02			5.20	SU			FA
Temperature	4/4/22 13:02	4/4/22 13:02			18.43	C			FA
Turbidity	4/4/22 13:02	4/4/22 13:02			1.04	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 13:05
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BC06745

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06753	Aluminum, Dissolved	mg/L	0.000227	0.010	0.100	0.0985	0.0978	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.713	20.0
BC06753	Aluminum, Total	mg/L	0.000768	0.010	0.100	0.108	0.103	0.0988	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC06753	Antimony, Dissolved	mg/L	0.000270	0.00100	0.100	0.0849	0.0876	0.0873	0.0850 to 0.115	84.9	70.0 to 130	3.13	20.0
BC06753	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.101	0.0992	0.0916	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BC06753	Arsenic, Dissolved	mg/L	-0.0000138	0.000176	0.100	0.462	0.471	0.100	0.0850 to 0.115	80.0	70.0 to 130	1.93	20.0
BC06753	Arsenic, Total	mg/L	0.000004	0.000176	0.100	0.513	0.511	0.101	0.0850 to 0.115	81.0	70.0 to 130	0.391	20.0
BC06753	Barium, Dissolved	mg/L	-0.000041	0.00100	0.100	0.225	0.231	0.0935	0.0850 to 0.115	100	70.0 to 130	2.63	20.0
BC06753	Barium, Total	mg/L	-0.0000526	0.00100	0.100	0.231	0.225	0.0956	0.0850 to 0.115	100	70.0 to 130	2.63	20.0
BC06753	Beryllium, Dissolved	mg/L	0.0000378	0.000880	0.100	0.0931	0.0935	0.0926	0.0850 to 0.115	93.1	70.0 to 130	0.429	20.0
BC06753	Beryllium, Total	mg/L	0.0000141	0.000880	0.100	0.0912	0.0886	0.0895	0.0850 to 0.115	91.2	70.0 to 130	2.89	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15	101	70.0 to 130	1.87	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BC06753	Cadmium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.100	0.0966	0.101	0.0850 to 0.115	100	70.0 to 130	3.46	20.0
BC06753	Cadmium, Total	mg/L	-0.0000297	0.000147	0.100	0.102	0.0950	0.103	0.0850 to 0.115	102	70.0 to 130	7.11	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75	70.0	70.0 to 130	2.56	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75	380	70.0 to 130	2.22	20.0
BC06753	Chloride	mg/L	-0.0468	1.00	10.0	19.5	19.8	9.77	9.00 to 11.0	98.7	80.0 to 120	1.53	20.0
BC06753	Chromium, Dissolved	mg/L	-0.0000231	0.000440	0.100	0.0973	0.0976	0.101	0.0850 to 0.115	97.3	70.0 to 130	0.308	20.0
BC06753	Chromium, Total	mg/L	-0.0000043	0.000440	0.100	0.102	0.0965	0.0997	0.0850 to 0.115	102	70.0 to 130	5.54	20.0
BC06753	Cobalt, Dissolved	mg/L	-0.0000214	0.000147	0.100	0.110	0.110	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.00	20.0
BC06753	Cobalt, Total	mg/L	-0.0000181	0.000147	0.100	0.114	0.108	0.102	0.0850 to 0.115	104	70.0 to 130	5.41	20.0
BC06753	Fluoride	mg/L	-0.00629	0.125	2.50	2.76	2.77	2.55	2.25 to 2.75	102	80.0 to 120	0.362	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230	-500	70.0 to 130	2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 13:05

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BC06745

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06753	Lead, Dissolved	mg/L	0.0000085	0.000147	0.100	0.0988	0.0981	0.0995	0.0850 to 0.115	98.8	70.0 to 130	0.711	20.0
BC06753	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0981	0.0975	0.0995	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06753	Manganese, Dissolved	mg/L	-0.000074	0.0002	0.100	2.03	2.07	0.102	0.0850 to 0.115	100	70.0 to 130	1.95	20.0
BC06753	Manganese, Total	mg/L	-0.0000526	0.0002	0.100	2.09	2.15	0.101	0.0850 to 0.115	100	70.0 to 130	2.83	20.0
BC06753	Mercury, Total by CVAA	mg/L	-0.00018	0.000500	0.004	0.00387	0.00391	0.00387	0.00340 to 0.00460	96.8	70.0 to 130	1.03	20.0
BC06753	Molybdenum, Dissolved	mg/L	-0.0000145	0.0002	0.100	0.101	0.100	0.0989	0.0850 to 0.115	97.8	70.0 to 130	0.995	20.0
BC06753	Molybdenum, Total	mg/L	-0.0000238	0.0002	0.100	0.101	0.0988	0.0993	0.0850 to 0.115	97.5	70.0 to 130	2.20	20.0
BC06753	Potassium, Dissolved	mg/L	-0.00591	0.367	10.0	16.0	15.7	10.0	8.50 to 11.5	96.0	70.0 to 130	1.89	20.0
BC06753	Potassium, Total	mg/L	-0.0359	0.367	10.0	16.5	16.0	9.95	8.50 to 11.5	100	70.0 to 130	3.08	20.0
BC06753	Selenium, Dissolved	mg/L	0.0000407	0.00100	0.100	0.102	0.101	0.106	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06753	Selenium, Total	mg/L	-0.0000212	0.00100	0.100	0.101	0.0981	0.102	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06753	Thallium, Dissolved	mg/L	0.0000054	0.000147	0.100	0.0922	0.0917	0.0929	0.0850 to 0.115	92.2	70.0 to 130	0.544	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 13:05

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BC06745

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06753	Thallium, Total	mg/L	0.0000109	0.000147	0.100	0.0916	0.0931	0.0955	0.0850 to 0.115	91.6	70.0 to 130	1.62	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 13:05

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BC06745

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06750	Alkalinity, Total as CaCO3	mg/L					410	50.8	45.0 to 55.0			1.23	10.0
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06753	Solids, Dissolved	mg/L	1.00	25.0			492	46.0	40.0 to 60.0			0.816	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP
Collected: 4/4/22 14:14
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06746

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:06		1.015	0.269	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 11:54		50.75	106	mg/L	3.50175	20.3	
* Iron, Total	4/11/22 14:00	4/12/22 13:04		101.5	210	mg/L	0.8120	4.06	
* Lithium, Total	4/11/22 14:00	4/12/22 10:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 10:06		1.015	36.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:06		1	11.6	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:06		1.015	5.42	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 11:54		50.75	55.4	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 09:57		1.015	0.297	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 11:55		50.75	106	mg/L	3.50175	20.3	
* Iron, Dissolved	4/11/22 15:57	4/12/22 13:48		101.5	213	mg/L	0.8120	4.06	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 09:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 09:57		1.015	35.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 09:57		1	11.9	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 09:57		1.015	5.55	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 11:55		50.75	51.5	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/6/22 09:22	4/6/22 14:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/6/22 09:22	4/6/22 14:32		1.015	0.0471	mg/L	0.006090	0.01015	
* Arsenic, Total	4/6/22 09:22	4/6/22 14:32		1.015	0.0164	mg/L	0.000081	0.000203	
* Barium, Total	4/6/22 09:22	4/6/22 14:32		1.015	0.0235	mg/L	0.000102	0.000203	
* Beryllium, Total	4/6/22 09:22	4/6/22 14:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/6/22 09:22	4/6/22 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/6/22 09:22	4/6/22 14:32		1.015	0.000449	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/6/22 09:22	4/6/22 14:32		1.015	0.296	mg/L	0.000068	0.000203	
* Lead, Total	4/6/22 09:22	4/6/22 14:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/6/22 09:22	4/6/22 15:20		92.365	15.3	mg/L	0.013855	0.018473	
* Molybdenum, Total	4/6/22 09:22	4/6/22 14:32		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/6/22 09:22	4/6/22 14:32		1.015	3.54	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP
Collected: 4/4/22 14:14
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06746

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/6/22 09:22	4/6/22 14:32		1.015	0.00221	mg/L	0.000508	0.001015	
* Thallium, Total	4/6/22 09:22	4/6/22 14:32		1.015	0.000155	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	0.0410	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	0.0159	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	0.0218	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	0.000279	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	0.298	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/6/22 10:05	4/6/22 13:42		92.365	15.6	mg/L	0.013855	0.018473	
* Molybdenum, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	0.000126	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	3.51	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	0.00233	mg/L	0.000508	0.001015	
* Thallium, Dissolved	4/6/22 10:05	4/6/22 11:49		1.015	0.000158	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/7/22 14:37	4/7/22 18:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:26	4/11/22 15:26		1	0.360	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/13/22 08:30	4/13/22 11:14		1	47.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	1280	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	47.6	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 20:53	4/7/22 20:53		1	2.86	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP

Collected: 4/4/22 14:14

Customer ID:

Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06746

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 12:52	4/6/22 12:52		8	41.2	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:00	4/6/22 14:00		1	0.161	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:53	4/11/22 14:53		40	801	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/4/22 14:11	4/4/22 14:11			1465.42	uS/cm			FA
pH	4/4/22 14:11	4/4/22 14:11			5.17	SU			FA
Temperature	4/4/22 14:11	4/4/22 14:11			20.06	C			FA
Turbidity	4/4/22 14:11	4/4/22 14:11			4.22	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 14:14
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BC06746

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	
				Limit	Spike				Limit	Limit	Rec	Limit		
BC06753	Aluminum, Dissolved	mg/L	0.000227	0.010	0.100	0.0985	0.0978	0.101	0.0850 to 0.115		98.5	70.0 to 130	0.713	20.0
BC06753	Aluminum, Total	mg/L	0.000768	0.010	0.100	0.108	0.103	0.0988	0.0850 to 0.115		108	70.0 to 130	4.74	20.0
BC06753	Antimony, Dissolved	mg/L	0.000270	0.00100	0.100	0.0849	0.0876	0.0873	0.0850 to 0.115		84.9	70.0 to 130	3.13	20.0
BC06753	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.101	0.0992	0.0916	0.0850 to 0.115		101	70.0 to 130	1.80	20.0
BC06753	Arsenic, Dissolved	mg/L	-0.0000138	0.000176	0.100	0.462	0.471	0.100	0.0850 to 0.115		80.0	70.0 to 130	1.93	20.0
BC06753	Arsenic, Total	mg/L	0.000004	0.000176	0.100	0.513	0.511	0.101	0.0850 to 0.115		81.0	70.0 to 130	0.391	20.0
BC06753	Barium, Dissolved	mg/L	-0.000041	0.00100	0.100	0.225	0.231	0.0935	0.0850 to 0.115		100	70.0 to 130	2.63	20.0
BC06753	Barium, Total	mg/L	-0.0000526	0.00100	0.100	0.231	0.225	0.0956	0.0850 to 0.115		100	70.0 to 130	2.63	20.0
BC06753	Beryllium, Dissolved	mg/L	0.0000378	0.000880	0.100	0.0931	0.0935	0.0926	0.0850 to 0.115		93.1	70.0 to 130	0.429	20.0
BC06753	Beryllium, Total	mg/L	0.0000141	0.000880	0.100	0.0912	0.0886	0.0895	0.0850 to 0.115		91.2	70.0 to 130	2.89	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15		101	70.0 to 130	1.87	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15		105	70.0 to 130	0.00	20.0
BC06753	Cadmium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.100	0.0966	0.101	0.0850 to 0.115		100	70.0 to 130	3.46	20.0
BC06753	Cadmium, Total	mg/L	-0.0000297	0.000147	0.100	0.102	0.0950	0.103	0.0850 to 0.115		102	70.0 to 130	7.11	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75		70.0	70.0 to 130	2.56	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75		380	70.0 to 130	2.22	20.0
BC06753	Chloride	mg/L	-0.0468	1.00	10.0	19.5	19.8	9.77	9.00 to 11.0		98.7	80.0 to 120	1.53	20.0
BC06753	Chromium, Dissolved	mg/L	-0.0000231	0.000440	0.100	0.0973	0.0976	0.101	0.0850 to 0.115		97.3	70.0 to 130	0.308	20.0
BC06753	Chromium, Total	mg/L	-0.0000043	0.000440	0.100	0.102	0.0965	0.0997	0.0850 to 0.115		102	70.0 to 130	5.54	20.0
BC06753	Cobalt, Dissolved	mg/L	-0.0000214	0.000147	0.100	0.110	0.110	0.103	0.0850 to 0.115		99.8	70.0 to 130	0.00	20.0
BC06753	Cobalt, Total	mg/L	-0.0000181	0.000147	0.100	0.114	0.108	0.102	0.0850 to 0.115		104	70.0 to 130	5.41	20.0
BC06753	Fluoride	mg/L	-0.00629	0.125	2.50	2.76	2.77	2.55	2.25 to 2.75		102	80.0 to 120	0.362	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230		-500	70.0 to 130	2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 14:14
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BC06746

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06753	Lead, Dissolved	mg/L	0.0000085	0.000147	0.100	0.0988	0.0981	0.0995	0.0850 to 0.115	98.8	70.0 to 130	0.711	20.0
BC06753	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0981	0.0975	0.0995	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06753	Manganese, Dissolved	mg/L	-0.000074	0.0002	0.100	2.03	2.07	0.102	0.0850 to 0.115	100	70.0 to 130	1.95	20.0
BC06753	Manganese, Total	mg/L	-0.0000526	0.0002	0.100	2.09	2.15	0.101	0.0850 to 0.115	100	70.0 to 130	2.83	20.0
BC06753	Mercury, Total by CVAA	mg/L	-0.00018	0.000500	0.004	0.00387	0.00391	0.00387	0.00340 to 0.00460	96.8	70.0 to 130	1.03	20.0
BC06753	Molybdenum, Dissolved	mg/L	-0.0000145	0.0002	0.100	0.101	0.100	0.0989	0.0850 to 0.115	97.8	70.0 to 130	0.995	20.0
BC06753	Molybdenum, Total	mg/L	-0.0000238	0.0002	0.100	0.101	0.0988	0.0993	0.0850 to 0.115	97.5	70.0 to 130	2.20	20.0
BC06753	Potassium, Dissolved	mg/L	-0.00591	0.367	10.0	16.0	15.7	10.0	8.50 to 11.5	96.0	70.0 to 130	1.89	20.0
BC06753	Potassium, Total	mg/L	-0.0359	0.367	10.0	16.5	16.0	9.95	8.50 to 11.5	100	70.0 to 130	3.08	20.0
BC06753	Selenium, Dissolved	mg/L	0.0000407	0.00100	0.100	0.102	0.101	0.106	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06753	Selenium, Total	mg/L	-0.0000212	0.00100	0.100	0.101	0.0981	0.102	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06753	Thallium, Dissolved	mg/L	0.0000054	0.000147	0.100	0.0922	0.0917	0.0929	0.0850 to 0.115	92.2	70.0 to 130	0.544	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 14:14

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BC06746

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06753	Thallium, Total	mg/L	0.0000109	0.000147	0.100	0.0916	0.0931	0.0955	0.0850 to 0.115	91.6	70.0 to 130	1.62	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 14:14

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BC06746

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06750	Alkalinity, Total as CaCO3	mg/L					410	50.8	45.0 to 55.0			1.23	10.0
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06753	Solids, Dissolved	mg/L	1.00	25.0			492	46.0	40.0 to 60.0			0.816	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP
Collected: 4/4/22 15:30
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06747

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:09		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/11/22 14:00	4/12/22 10:09		1.015	37.0	mg/L	0.070035	0.406	
* Iron, Total	4/11/22 14:00	4/12/22 10:09		1.015	0.359	mg/L	0.008120	0.0406	
* Lithium, Total	4/11/22 14:00	4/12/22 10:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 10:09		1.015	4.39	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:09		1	11.7	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:09		1.015	5.49	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:09		1.015	2.48	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:01		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/11/22 15:57	4/12/22 10:01		1.015	38.3	mg/L	0.070035	0.406	
* Iron, Dissolved	4/11/22 15:57	4/12/22 10:01		1.015	0.201	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:01		1.015	4.35	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:01		1	11.8	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:01		1.015	5.50	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:01		1.015	2.46	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/6/22 09:22	4/6/22 14:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/6/22 09:22	4/6/22 14:36		1.015	0.0321	mg/L	0.006090	0.01015	
* Arsenic, Total	4/6/22 09:22	4/6/22 14:36		1.015	0.000332	mg/L	0.000081	0.000203	
* Barium, Total	4/6/22 09:22	4/6/22 14:36		1.015	0.0635	mg/L	0.000102	0.000203	
* Beryllium, Total	4/6/22 09:22	4/6/22 14:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/6/22 09:22	4/6/22 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/6/22 09:22	4/6/22 14:36		1.015	0.000371	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/6/22 09:22	4/6/22 14:36		1.015	0.000726	mg/L	0.000068	0.000203	
* Lead, Total	4/6/22 09:22	4/6/22 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/6/22 09:22	4/6/22 14:36		1.015	0.180	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/6/22 09:22	4/6/22 14:36		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/6/22 09:22	4/6/22 14:36		1.015	1.36	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP
Collected: 4/4/22 15:30
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06747

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/6/22 09:22	4/6/22 14:36		1.015	0.000931	mg/L	0.000508	0.001015	J
* Thallium, Total	4/6/22 09:22	4/6/22 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	0.0266	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	0.000297	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	0.0637	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	0.000686	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	0.185	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	1.39	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	0.000998	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	4/6/22 10:05	4/6/22 11:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/7/22 14:37	4/7/22 18:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:28	4/11/22 15:28		1	0.399	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/13/22 08:30	4/13/22 11:14		1	15.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	155	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	15.2	mg/L			
Carbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 21:11	4/7/22 21:11		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP

Collected: 4/4/22 15:30

Customer ID:

Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06747

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 12:42	4/6/22 12:42		1	3.09	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:01	4/6/22 14:01		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:54	4/11/22 14:54		5	90.2	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/4/22 15:27	4/4/22 15:27			233.12	uS/cm			FA
pH	4/4/22 15:27	4/4/22 15:27			4.40	SU			FA
Temperature	4/4/22 15:27	4/4/22 15:27			19.36	C			FA
Turbidity	4/4/22 15:27	4/4/22 15:27			1.22	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 15:30
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BC06747

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit	
				Limit	Spike				Limit	Limit	Rec	Limit			
BC06753	Aluminum, Dissolved	mg/L	0.000227	0.010	0.100	0.0985	0.0978	0.101	0.0850 to 0.115		98.5	70.0 to 130		0.713	20.0
BC06753	Aluminum, Total	mg/L	0.000768	0.010	0.100	0.108	0.103	0.0988	0.0850 to 0.115		108	70.0 to 130		4.74	20.0
BC06753	Antimony, Dissolved	mg/L	0.000270	0.00100	0.100	0.0849	0.0876	0.0873	0.0850 to 0.115		84.9	70.0 to 130		3.13	20.0
BC06753	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.101	0.0992	0.0916	0.0850 to 0.115		101	70.0 to 130		1.80	20.0
BC06753	Arsenic, Dissolved	mg/L	-0.0000138	0.000176	0.100	0.462	0.471	0.100	0.0850 to 0.115		80.0	70.0 to 130		1.93	20.0
BC06753	Arsenic, Total	mg/L	0.000004	0.000176	0.100	0.513	0.511	0.101	0.0850 to 0.115		81.0	70.0 to 130		0.391	20.0
BC06753	Barium, Dissolved	mg/L	-0.000041	0.00100	0.100	0.225	0.231	0.0935	0.0850 to 0.115		100	70.0 to 130		2.63	20.0
BC06753	Barium, Total	mg/L	-0.0000526	0.00100	0.100	0.231	0.225	0.0956	0.0850 to 0.115		100	70.0 to 130		2.63	20.0
BC06753	Beryllium, Dissolved	mg/L	0.0000378	0.000880	0.100	0.0931	0.0935	0.0926	0.0850 to 0.115		93.1	70.0 to 130		0.429	20.0
BC06753	Beryllium, Total	mg/L	0.0000141	0.000880	0.100	0.0912	0.0886	0.0895	0.0850 to 0.115		91.2	70.0 to 130		2.89	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15		101	70.0 to 130		1.87	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15		105	70.0 to 130		0.00	20.0
BC06753	Cadmium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.100	0.0966	0.101	0.0850 to 0.115		100	70.0 to 130		3.46	20.0
BC06753	Cadmium, Total	mg/L	-0.0000297	0.000147	0.100	0.102	0.0950	0.103	0.0850 to 0.115		102	70.0 to 130		7.11	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75		70.0	70.0 to 130		2.56	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75		380	70.0 to 130		2.22	20.0
BC06753	Chloride	mg/L	-0.0468	1.00	10.0	19.5	19.8	9.77	9.00 to 11.0		98.7	80.0 to 120		1.53	20.0
BC06753	Chromium, Dissolved	mg/L	-0.0000231	0.000440	0.100	0.0973	0.0976	0.101	0.0850 to 0.115		97.3	70.0 to 130		0.308	20.0
BC06753	Chromium, Total	mg/L	-0.0000043	0.000440	0.100	0.102	0.0965	0.0997	0.0850 to 0.115		102	70.0 to 130		5.54	20.0
BC06753	Cobalt, Dissolved	mg/L	-0.0000214	0.000147	0.100	0.110	0.110	0.103	0.0850 to 0.115		99.8	70.0 to 130		0.00	20.0
BC06753	Cobalt, Total	mg/L	-0.0000181	0.000147	0.100	0.114	0.108	0.102	0.0850 to 0.115		104	70.0 to 130		5.41	20.0
BC06753	Fluoride	mg/L	-0.00629	0.125	2.50	2.76	2.77	2.55	2.25 to 2.75		102	80.0 to 120		0.362	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230		-500	70.0 to 130		2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 15:30
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BC06747

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06753	Lead, Dissolved	mg/L	0.0000085	0.000147	0.100	0.0988	0.0981	0.0995	0.0850 to 0.115	98.8	70.0 to 130	0.711	20.0
BC06753	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0981	0.0975	0.0995	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06753	Manganese, Dissolved	mg/L	-0.000074	0.0002	0.100	2.03	2.07	0.102	0.0850 to 0.115	100	70.0 to 130	1.95	20.0
BC06753	Manganese, Total	mg/L	-0.0000526	0.0002	0.100	2.09	2.15	0.101	0.0850 to 0.115	100	70.0 to 130	2.83	20.0
BC06753	Mercury, Total by CVAA	mg/L	-0.00018	0.000500	0.004	0.00387	0.00391	0.00387	0.00340 to 0.00460	96.8	70.0 to 130	1.03	20.0
BC06753	Molybdenum, Dissolved	mg/L	-0.0000145	0.0002	0.100	0.101	0.100	0.0989	0.0850 to 0.115	97.8	70.0 to 130	0.995	20.0
BC06753	Molybdenum, Total	mg/L	-0.0000238	0.0002	0.100	0.101	0.0988	0.0993	0.0850 to 0.115	97.5	70.0 to 130	2.20	20.0
BC06753	Potassium, Dissolved	mg/L	-0.00591	0.367	10.0	16.0	15.7	10.0	8.50 to 11.5	96.0	70.0 to 130	1.89	20.0
BC06753	Potassium, Total	mg/L	-0.0359	0.367	10.0	16.5	16.0	9.95	8.50 to 11.5	100	70.0 to 130	3.08	20.0
BC06753	Selenium, Dissolved	mg/L	0.0000407	0.00100	0.100	0.102	0.101	0.106	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06753	Selenium, Total	mg/L	-0.0000212	0.00100	0.100	0.101	0.0981	0.102	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06753	Thallium, Dissolved	mg/L	0.0000054	0.000147	0.100	0.0922	0.0917	0.0929	0.0850 to 0.115	92.2	70.0 to 130	0.544	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 15:30

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BC06747

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06753	Thallium, Total	mg/L	0.0000109	0.000147	0.100	0.0916	0.0931	0.0955	0.0850 to 0.115	91.6	70.0 to 130	1.62	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 15:30

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BC06747

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06750	Alkalinity, Total as CaCO3	mg/L					410	50.8	45.0 to 55.0			1.23	10.0
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06753	Solids, Dissolved	mg/L	1.00	25.0			492	46.0	40.0 to 60.0			0.816	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 4/4/22 17:14
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06748

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:12		1.015	0.202	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 11:57		20.3	137	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 11:57		20.3	6.24	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 10:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 10:12		1.015	19.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:12		1	9.33	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:12		1.015	4.36	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:12		1.015	28.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:04		1.015	0.202	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 11:58		20.3	129	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 11:58		20.3	5.69	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:04		1.015	19.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:04		1	9.67	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:04		1.015	4.52	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:04		1.015	28.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/6/22 09:22	4/6/22 14:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/6/22 09:22	4/6/22 14:40		1.015	0.00863	mg/L	0.006090	0.01015	J
* Arsenic, Total	4/6/22 09:22	4/6/22 14:40		1.015	0.00187	mg/L	0.000081	0.000203	
* Barium, Total	4/6/22 09:22	4/6/22 14:40		1.015	0.0482	mg/L	0.000102	0.000203	
* Beryllium, Total	4/6/22 09:22	4/6/22 14:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/6/22 09:22	4/6/22 14:40		1.015	0.000301	mg/L	0.000068	0.000203	
* Chromium, Total	4/6/22 09:22	4/6/22 14:40		1.015	0.000225	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/6/22 09:22	4/6/22 14:40		1.015	0.323	mg/L	0.000068	0.000203	
* Lead, Total	4/6/22 09:22	4/6/22 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/6/22 09:22	4/6/22 15:23		10.15	9.81	mg/L	0.001522	0.00203	
* Molybdenum, Total	4/6/22 09:22	4/6/22 14:40		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/6/22 09:22	4/6/22 14:40		1.015	2.72	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 4/4/22 17:14
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06748

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/6/22 09:22	4/6/22 14:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/6/22 09:22	4/6/22 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	0.00130	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	0.0495	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	0.000393	mg/L	0.000068	0.000203	
* Chromium, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	0.324	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/6/22 10:05	4/6/22 13:45		10.15	9.64	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	2.74	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/6/22 10:05	4/6/22 11:57		1.015	0.0000755	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/7/22 14:37	4/7/22 18:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:30	4/11/22 15:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/13/22 08:30	4/13/22 11:14		1	91.1	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	604	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	91.0	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 21:26	4/7/22 21:26		1	1.27	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP

Collected: 4/4/22 17:14

Customer ID:

Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06748

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 12:43	4/6/22 12:43		1	13.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:02	4/6/22 14:02		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:55	4/11/22 14:55		25	390	mg/L	15.0	50	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/4/22 17:10	4/4/22 17:10			870.22	uS/cm			FA
pH	4/4/22 17:10	4/4/22 17:10			5.56	SU			FA
Temperature	4/4/22 17:10	4/4/22 17:10			17.32	C			FA
Turbidity	4/4/22 17:10	4/4/22 17:10			4.89	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 17:14
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BC06748

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06753	Aluminum, Dissolved	mg/L	0.000227	0.010	0.100	0.0985	0.0978	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.713	20.0
BC06753	Aluminum, Total	mg/L	0.000768	0.010	0.100	0.108	0.103	0.0988	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC06753	Antimony, Dissolved	mg/L	0.000270	0.00100	0.100	0.0849	0.0876	0.0873	0.0850 to 0.115	84.9	70.0 to 130	3.13	20.0
BC06753	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.101	0.0992	0.0916	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BC06753	Arsenic, Dissolved	mg/L	-0.0000138	0.000176	0.100	0.462	0.471	0.100	0.0850 to 0.115	80.0	70.0 to 130	1.93	20.0
BC06753	Arsenic, Total	mg/L	0.000004	0.000176	0.100	0.513	0.511	0.101	0.0850 to 0.115	81.0	70.0 to 130	0.391	20.0
BC06753	Barium, Dissolved	mg/L	-0.000041	0.00100	0.100	0.225	0.231	0.0935	0.0850 to 0.115	100	70.0 to 130	2.63	20.0
BC06753	Barium, Total	mg/L	-0.0000526	0.00100	0.100	0.231	0.225	0.0956	0.0850 to 0.115	100	70.0 to 130	2.63	20.0
BC06753	Beryllium, Dissolved	mg/L	0.0000378	0.000880	0.100	0.0931	0.0935	0.0926	0.0850 to 0.115	93.1	70.0 to 130	0.429	20.0
BC06753	Beryllium, Total	mg/L	0.0000141	0.000880	0.100	0.0912	0.0886	0.0895	0.0850 to 0.115	91.2	70.0 to 130	2.89	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15	101	70.0 to 130	1.87	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BC06753	Cadmium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.100	0.0966	0.101	0.0850 to 0.115	100	70.0 to 130	3.46	20.0
BC06753	Cadmium, Total	mg/L	-0.0000297	0.000147	0.100	0.102	0.0950	0.103	0.0850 to 0.115	102	70.0 to 130	7.11	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75	70.0	70.0 to 130	2.56	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75	380	70.0 to 130	2.22	20.0
BC06753	Chloride	mg/L	-0.0468	1.00	10.0	19.5	19.8	9.77	9.00 to 11.0	98.7	80.0 to 120	1.53	20.0
BC06753	Chromium, Dissolved	mg/L	-0.0000231	0.000440	0.100	0.0973	0.0976	0.101	0.0850 to 0.115	97.3	70.0 to 130	0.308	20.0
BC06753	Chromium, Total	mg/L	-0.0000043	0.000440	0.100	0.102	0.0965	0.0997	0.0850 to 0.115	102	70.0 to 130	5.54	20.0
BC06753	Cobalt, Dissolved	mg/L	-0.0000214	0.000147	0.100	0.110	0.110	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.00	20.0
BC06753	Cobalt, Total	mg/L	-0.0000181	0.000147	0.100	0.114	0.108	0.102	0.0850 to 0.115	104	70.0 to 130	5.41	20.0
BC06753	Fluoride	mg/L	-0.00629	0.125	2.50	2.76	2.77	2.55	2.25 to 2.75	102	80.0 to 120	0.362	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230	-500	70.0 to 130	2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 17:14

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BC06748

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec
				Limit	Spike				Limit	Prec	Limit	Prec	
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06753	Lead, Dissolved	mg/L	0.0000085	0.000147	0.100	0.0988	0.0981	0.0995	0.0850 to 0.115	98.8	70.0 to 130	0.711	20.0
BC06753	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0981	0.0975	0.0995	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06753	Manganese, Dissolved	mg/L	-0.000074	0.0002	0.100	2.03	2.07	0.102	0.0850 to 0.115	100	70.0 to 130	1.95	20.0
BC06753	Manganese, Total	mg/L	-0.0000526	0.0002	0.100	2.09	2.15	0.101	0.0850 to 0.115	100	70.0 to 130	2.83	20.0
BC06753	Mercury, Total by CVAA	mg/L	-0.00018	0.000500	0.004	0.00387	0.00391	0.00387	0.00340 to 0.00460	96.8	70.0 to 130	1.03	20.0
BC06753	Molybdenum, Dissolved	mg/L	-0.0000145	0.0002	0.100	0.101	0.100	0.0989	0.0850 to 0.115	97.8	70.0 to 130	0.995	20.0
BC06753	Molybdenum, Total	mg/L	-0.0000238	0.0002	0.100	0.101	0.0988	0.0993	0.0850 to 0.115	97.5	70.0 to 130	2.20	20.0
BC06753	Potassium, Dissolved	mg/L	-0.00591	0.367	10.0	16.0	15.7	10.0	8.50 to 11.5	96.0	70.0 to 130	1.89	20.0
BC06753	Potassium, Total	mg/L	-0.0359	0.367	10.0	16.5	16.0	9.95	8.50 to 11.5	100	70.0 to 130	3.08	20.0
BC06753	Selenium, Dissolved	mg/L	0.0000407	0.00100	0.100	0.102	0.101	0.106	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06753	Selenium, Total	mg/L	-0.0000212	0.00100	0.100	0.101	0.0981	0.102	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06753	Thallium, Dissolved	mg/L	0.0000054	0.000147	0.100	0.0922	0.0917	0.0929	0.0850 to 0.115	92.2	70.0 to 130	0.544	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 17:14

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BC06748

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec Limit	Prec Limit	
BC06753	Thallium, Total	mg/L	0.0000109	0.000147	0.100	0.0916	0.0931	0.0955	0.0850 to 0.115	91.6	70.0 to 130	1.62	20.0
BC06748	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.0	10.9	24.7		97.3	80.0 to 120	0.913	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 17:14

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BC06748

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06750	Alkalinity, Total as CaCO3	mg/L					410	50.8	45.0 to 55.0			1.23	10.0
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06753	Solids, Dissolved	mg/L	1.00	25.0			492	46.0	40.0 to 60.0			0.816	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-4

Location Code: WMWGREAPFB
Collected: 4/4/22 17:45
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06749

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:15		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/11/22 14:00	4/12/22 10:15		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/11/22 14:00	4/12/22 10:15		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/11/22 14:00	4/12/22 10:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 10:15		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:15		1	Not Detected	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:15		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/11/22 14:00	4/12/22 10:15		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/6/22 09:22	4/6/22 14:43		1.015	0.000217	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/6/22 09:22	4/6/22 14:43		1.015	0.00110	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/6/22 09:22	4/6/22 14:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	4/7/22 14:37	4/7/22 18:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: ELH						
* Nitrogen, Nitrate/Nitrite	4/11/22 15:32	4/11/22 15:32		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-4

Location Code: WMWGREAPFB

Collected: 4/4/22 17:45

Customer ID:

Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06749

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 22:49	4/7/22 22:49		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 12:44	4/6/22 12:44		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:04	4/6/22 14:04		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 14:56	4/11/22 14:56		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 4/4/22 17:45

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond Field Blank-4

Laboratory ID Number: BC06749

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06753	Aluminum, Total	mg/L	0.000768	0.010	0.100	0.108	0.103	0.0988	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC06753	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.101	0.0992	0.0916	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BC06753	Arsenic, Total	mg/L	0.000004	0.000176	0.100	0.513	0.511	0.101	0.0850 to 0.115	81.0	70.0 to 130	0.391	20.0
BC06753	Barium, Total	mg/L	-0.0000526	0.00100	0.100	0.231	0.225	0.0956	0.0850 to 0.115	100	70.0 to 130	2.63	20.0
BC06753	Beryllium, Total	mg/L	0.0000141	0.000880	0.100	0.0912	0.0886	0.0895	0.0850 to 0.115	91.2	70.0 to 130	2.89	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BC06753	Cadmium, Total	mg/L	-0.0000297	0.000147	0.100	0.102	0.0950	0.103	0.0850 to 0.115	102	70.0 to 130	7.11	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75	380	70.0 to 130	2.22	20.0
BC06753	Chloride	mg/L	-0.0468	1.00	10.0	19.5	19.8	9.77	9.00 to 11.0	98.7	80.0 to 120	1.53	20.0
BC06753	Chromium, Total	mg/L	-0.0000043	0.000440	0.100	0.102	0.0965	0.0997	0.0850 to 0.115	102	70.0 to 130	5.54	20.0
BC06753	Cobalt, Total	mg/L	-0.0000181	0.000147	0.100	0.114	0.108	0.102	0.0850 to 0.115	104	70.0 to 130	5.41	20.0
BC06753	Fluoride	mg/L	-0.00629	0.125	2.50	2.76	2.77	2.55	2.25 to 2.75	102	80.0 to 120	0.362	20.0
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06753	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0981	0.0975	0.0995	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06753	Manganese, Total	mg/L	-0.0000526	0.0002	0.100	2.09	2.15	0.101	0.0850 to 0.115	100	70.0 to 130	2.83	20.0
BC06753	Mercury, Total by CVAA	mg/L	-0.00018	0.000500	0.004	0.00387	0.00391	0.00387	0.00340 to 0.00460	96.8	70.0 to 130	1.03	20.0
BC06753	Molybdenum, Total	mg/L	-0.0000238	0.0002	0.100	0.101	0.0988	0.0993	0.0850 to 0.115	97.5	70.0 to 130	2.20	20.0
BC06753	Potassium, Total	mg/L	-0.0359	0.367	10.0	16.5	16.0	9.95	8.50 to 11.5	100	70.0 to 130	3.08	20.0
BC06753	Selenium, Total	mg/L	-0.0000212	0.00100	0.100	0.101	0.0981	0.102	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 4/4/22 17:45

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond Field Blank-4

Laboratory ID Number: BC06749

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC06749	Sulfate	mg/L	0.0777	2.0	20.0	22.5	20.2	19.6	18.0 to 22.0	112	80.0 to 120	10.8	20.0
BC06753	Thallium, Total	mg/L	0.0000109	0.000147	0.100	0.0916	0.0931	0.0955	0.0850 to 0.115	91.6	70.0 to 130	1.62	20.0
BC06753	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.5	11.2	25.3		98.1	80.0 to 120	2.64	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 4/4/22 17:45

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond Field Blank-4

Laboratory ID Number: BC06749

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06753	Solids, Dissolved	mg/L	1.00	25.0			492	46.0	40.0 to 60.0			0.816	10.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 4/4/22 12:28
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06750

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:18		1.015	1.89	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:00		20.3	117	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:00		20.3	51.1	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 10:18		1.015	0.607	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 10:18		1.015	27.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:18		1	12.9	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:18		1.015	6.02	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:18		1.015	33.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:07		1.015	1.88	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:01		20.3	117	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:01		20.3	53.7	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:07		1.015	0.636	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:07		1.015	27.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:07		1	13.5	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:07		1.015	6.29	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:07		1.015	35.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/6/22 09:22	4/6/22 14:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/6/22 09:22	4/6/22 14:47		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/6/22 09:22	4/6/22 14:47		1.015	0.0241	mg/L	0.000081	0.000203	
* Barium, Total	4/6/22 09:22	4/6/22 14:47		1.015	0.103	mg/L	0.000102	0.000203	
* Beryllium, Total	4/6/22 09:22	4/6/22 14:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/6/22 09:22	4/6/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/6/22 09:22	4/6/22 14:47		1.015	0.000248	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/6/22 09:22	4/6/22 14:47		1.015	0.0423	mg/L	0.000068	0.000203	
* Lead, Total	4/6/22 09:22	4/6/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/6/22 09:22	4/6/22 15:27		5.075	4.91	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/6/22 09:22	4/6/22 14:47		1.015	0.0166	mg/L	0.000102	0.000203	
* Potassium, Total	4/6/22 09:22	4/6/22 14:47		1.015	10.4	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 4/4/22 12:28
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06750

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/6/22 09:22	4/6/22 14:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/6/22 09:22	4/6/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	0.0215	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	0.107	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	0.000216	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	0.0406	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/6/22 10:05	4/6/22 13:49		5.075	4.83	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	0.0153	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	10.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/6/22 10:05	4/6/22 12:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/7/22 14:37	4/7/22 18:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:34	4/11/22 15:34		1	0.263	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/13/22 08:30	4/13/22 11:14		1	405	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	630	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	404	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/13/22 08:30	4/13/22 11:14		1	0.741	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 23:11	4/7/22 23:11		1	2.77	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP

Collected: 4/4/22 12:28

Customer ID:

Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06750

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 12:45	4/6/22 12:45		1	9.75	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:05	4/6/22 14:05		1	0.245	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 15:27	4/11/22 15:27		10	192	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/4/22 12:25	4/4/22 12:25			891.38	uS/cm			FA
pH	4/4/22 12:25	4/4/22 12:25			6.39	SU			FA
Temperature	4/4/22 12:25	4/4/22 12:25			23.40	C			FA
Turbidity	4/4/22 12:25	4/4/22 12:25			0.96	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 12:28
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BC06750

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit	
				Limit	Spike				Limit	Limit	Rec	Limit			
BC06753	Aluminum, Dissolved	mg/L	0.000227	0.010	0.100	0.0985	0.0978	0.101	0.0850 to 0.115		98.5	70.0 to 130		0.713	20.0
BC06753	Aluminum, Total	mg/L	0.000768	0.010	0.100	0.108	0.103	0.0988	0.0850 to 0.115		108	70.0 to 130		4.74	20.0
BC06753	Antimony, Dissolved	mg/L	0.000270	0.00100	0.100	0.0849	0.0876	0.0873	0.0850 to 0.115		84.9	70.0 to 130		3.13	20.0
BC06753	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.101	0.0992	0.0916	0.0850 to 0.115		101	70.0 to 130		1.80	20.0
BC06753	Arsenic, Dissolved	mg/L	-0.0000138	0.000176	0.100	0.462	0.471	0.100	0.0850 to 0.115		80.0	70.0 to 130		1.93	20.0
BC06753	Arsenic, Total	mg/L	0.000004	0.000176	0.100	0.513	0.511	0.101	0.0850 to 0.115		81.0	70.0 to 130		0.391	20.0
BC06753	Barium, Dissolved	mg/L	-0.000041	0.00100	0.100	0.225	0.231	0.0935	0.0850 to 0.115		100	70.0 to 130		2.63	20.0
BC06753	Barium, Total	mg/L	-0.0000526	0.00100	0.100	0.231	0.225	0.0956	0.0850 to 0.115		100	70.0 to 130		2.63	20.0
BC06753	Beryllium, Dissolved	mg/L	0.0000378	0.000880	0.100	0.0931	0.0935	0.0926	0.0850 to 0.115		93.1	70.0 to 130		0.429	20.0
BC06753	Beryllium, Total	mg/L	0.0000141	0.000880	0.100	0.0912	0.0886	0.0895	0.0850 to 0.115		91.2	70.0 to 130		2.89	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15		101	70.0 to 130		1.87	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15		105	70.0 to 130		0.00	20.0
BC06753	Cadmium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.100	0.0966	0.101	0.0850 to 0.115		100	70.0 to 130		3.46	20.0
BC06753	Cadmium, Total	mg/L	-0.0000297	0.000147	0.100	0.102	0.0950	0.103	0.0850 to 0.115		102	70.0 to 130		7.11	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75		70.0	70.0 to 130		2.56	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75		380	70.0 to 130		2.22	20.0
BC06753	Chloride	mg/L	-0.0468	1.00	10.0	19.5	19.8	9.77	9.00 to 11.0		98.7	80.0 to 120		1.53	20.0
BC06753	Chromium, Dissolved	mg/L	-0.0000231	0.000440	0.100	0.0973	0.0976	0.101	0.0850 to 0.115		97.3	70.0 to 130		0.308	20.0
BC06753	Chromium, Total	mg/L	-0.0000043	0.000440	0.100	0.102	0.0965	0.0997	0.0850 to 0.115		102	70.0 to 130		5.54	20.0
BC06753	Cobalt, Dissolved	mg/L	-0.0000214	0.000147	0.100	0.110	0.110	0.103	0.0850 to 0.115		99.8	70.0 to 130		0.00	20.0
BC06753	Cobalt, Total	mg/L	-0.0000181	0.000147	0.100	0.114	0.108	0.102	0.0850 to 0.115		104	70.0 to 130		5.41	20.0
BC06753	Fluoride	mg/L	-0.00629	0.125	2.50	2.76	2.77	2.55	2.25 to 2.75		102	80.0 to 120		0.362	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230		-500	70.0 to 130		2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 12:28
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BC06750

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06753	Lead, Dissolved	mg/L	0.0000085	0.000147	0.100	0.0988	0.0981	0.0995	0.0850 to 0.115	98.8	70.0 to 130	0.711	20.0
BC06753	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0981	0.0975	0.0995	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06753	Manganese, Dissolved	mg/L	-0.000074	0.0002	0.100	2.03	2.07	0.102	0.0850 to 0.115	100	70.0 to 130	1.95	20.0
BC06753	Manganese, Total	mg/L	-0.0000526	0.0002	0.100	2.09	2.15	0.101	0.0850 to 0.115	100	70.0 to 130	2.83	20.0
BC06753	Mercury, Total by CVAA	mg/L	-0.00018	0.000500	0.004	0.00387	0.00391	0.00387	0.00340 to 0.00460	96.8	70.0 to 130	1.03	20.0
BC06753	Molybdenum, Dissolved	mg/L	-0.0000145	0.0002	0.100	0.101	0.100	0.0989	0.0850 to 0.115	97.8	70.0 to 130	0.995	20.0
BC06753	Molybdenum, Total	mg/L	-0.0000238	0.0002	0.100	0.101	0.0988	0.0993	0.0850 to 0.115	97.5	70.0 to 130	2.20	20.0
BC06753	Potassium, Dissolved	mg/L	-0.00591	0.367	10.0	16.0	15.7	10.0	8.50 to 11.5	96.0	70.0 to 130	1.89	20.0
BC06753	Potassium, Total	mg/L	-0.0359	0.367	10.0	16.5	16.0	9.95	8.50 to 11.5	100	70.0 to 130	3.08	20.0
BC06753	Selenium, Dissolved	mg/L	0.0000407	0.00100	0.100	0.102	0.101	0.106	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06753	Selenium, Total	mg/L	-0.0000212	0.00100	0.100	0.101	0.0981	0.102	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0
BC06753	Sulfate	mg/L	-0.0181	2.0	320	504	517	19.4	18.0 to 22.0	108	80.0 to 120	2.55	20.0
BC06753	Thallium, Dissolved	mg/L	0.0000054	0.000147	0.100	0.0922	0.0917	0.0929	0.0850 to 0.115	92.2	70.0 to 130	0.544	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 12:28

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BC06750

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06753	Thallium, Total	mg/L	0.0000109	0.000147	0.100	0.0916	0.0931	0.0955	0.0850 to 0.115	91.6	70.0 to 130	1.62	20.0
BC06753	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.5	11.2	25.3		98.1	80.0 to 120	2.64	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 12:28

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BC06750

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06750	Alkalinity, Total as CaCO3	mg/L					410	50.8	45.0 to 55.0			1.23	10.0
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06753	Solids, Dissolved	mg/L	1.00	25.0			492	46.0	40.0 to 60.0			0.816	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 4/4/22 14:40
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06751

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:21		1.015	1.92	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:03		20.3	93.7	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:03		20.3	19.4	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 10:21		1.015	0.329	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 10:21		1.015	20.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:21		1	9.61	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:21		1.015	4.49	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:21		1.015	28.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:11		1.015	1.91	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:06		20.3	88.8	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:06		20.3	19.6	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:11		1.015	0.345	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:11		1.015	20.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:11		1	9.95	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:11		1.015	4.65	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:11		1.015	28.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/6/22 09:22	4/6/22 14:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/6/22 09:22	4/6/22 14:50		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/6/22 09:22	4/6/22 14:50		1.015	0.0117	mg/L	0.000081	0.000203	
* Barium, Total	4/6/22 09:22	4/6/22 14:50		1.015	0.260	mg/L	0.000102	0.000203	
* Beryllium, Total	4/6/22 09:22	4/6/22 14:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/6/22 09:22	4/6/22 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/6/22 09:22	4/6/22 14:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	4/6/22 09:22	4/6/22 14:50		1.015	0.0218	mg/L	0.000068	0.000203	
* Lead, Total	4/6/22 09:22	4/6/22 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/6/22 09:22	4/6/22 15:30		5.075	3.27	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/6/22 09:22	4/6/22 14:50		1.015	0.0117	mg/L	0.000102	0.000203	
* Potassium, Total	4/6/22 09:22	4/6/22 14:50		1.015	6.35	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 4/4/22 14:40
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06751

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/6/22 09:22	4/6/22 14:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/6/22 09:22	4/6/22 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	0.0120	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	0.244	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	0.0215	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/6/22 10:05	4/6/22 13:52		5.075	3.06	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	0.0111	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	6.26	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/6/22 10:05	4/6/22 12:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/7/22 14:37	4/7/22 19:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:36	4/11/22 15:36		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/18/22 12:35	4/18/22 15:45		1	267	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	435	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	266	mg/L			
Carbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	1.44	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 23:30	4/7/22 23:30		1	2.64	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP

Collected: 4/4/22 14:40

Customer ID:

Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06751

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 12:46	4/6/22 12:46		1	16.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:06	4/6/22 14:06		1	0.276	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 15:28	4/11/22 15:28		8	111	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/4/22 14:38	4/4/22 14:38			627.33	uS/cm			FA
pH	4/4/22 14:38	4/4/22 14:38			6.21	SU			FA
Temperature	4/4/22 14:38	4/4/22 14:38			25.50	C			FA
Turbidity	4/4/22 14:38	4/4/22 14:38			0.4	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 14:40
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BC06751

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	
				Limit	Spike				Limit	Limit	Rec	Limit		Prec
BC06753	Aluminum, Dissolved	mg/L	0.000227	0.010	0.100	0.0985	0.0978	0.101	0.0850 to 0.115		98.5	70.0 to 130	0.713	20.0
BC06753	Aluminum, Total	mg/L	0.000768	0.010	0.100	0.108	0.103	0.0988	0.0850 to 0.115		108	70.0 to 130	4.74	20.0
BC06753	Antimony, Dissolved	mg/L	0.000270	0.00100	0.100	0.0849	0.0876	0.0873	0.0850 to 0.115		84.9	70.0 to 130	3.13	20.0
BC06753	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.101	0.0992	0.0916	0.0850 to 0.115		101	70.0 to 130	1.80	20.0
BC06753	Arsenic, Dissolved	mg/L	-0.0000138	0.000176	0.100	0.462	0.471	0.100	0.0850 to 0.115		80.0	70.0 to 130	1.93	20.0
BC06753	Arsenic, Total	mg/L	0.000004	0.000176	0.100	0.513	0.511	0.101	0.0850 to 0.115		81.0	70.0 to 130	0.391	20.0
BC06753	Barium, Dissolved	mg/L	-0.000041	0.00100	0.100	0.225	0.231	0.0935	0.0850 to 0.115		100	70.0 to 130	2.63	20.0
BC06753	Barium, Total	mg/L	-0.0000526	0.00100	0.100	0.231	0.225	0.0956	0.0850 to 0.115		100	70.0 to 130	2.63	20.0
BC06753	Beryllium, Dissolved	mg/L	0.0000378	0.000880	0.100	0.0931	0.0935	0.0926	0.0850 to 0.115		93.1	70.0 to 130	0.429	20.0
BC06753	Beryllium, Total	mg/L	0.0000141	0.000880	0.100	0.0912	0.0886	0.0895	0.0850 to 0.115		91.2	70.0 to 130	2.89	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15		101	70.0 to 130	1.87	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15		105	70.0 to 130	0.00	20.0
BC06753	Cadmium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.100	0.0966	0.101	0.0850 to 0.115		100	70.0 to 130	3.46	20.0
BC06753	Cadmium, Total	mg/L	-0.0000297	0.000147	0.100	0.102	0.0950	0.103	0.0850 to 0.115		102	70.0 to 130	7.11	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75		70.0	70.0 to 130	2.56	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75		380	70.0 to 130	2.22	20.0
BC06753	Chloride	mg/L	-0.0468	1.00	10.0	19.5	19.8	9.77	9.00 to 11.0		98.7	80.0 to 120	1.53	20.0
BC06753	Chromium, Dissolved	mg/L	-0.0000231	0.000440	0.100	0.0973	0.0976	0.101	0.0850 to 0.115		97.3	70.0 to 130	0.308	20.0
BC06753	Chromium, Total	mg/L	-0.0000043	0.000440	0.100	0.102	0.0965	0.0997	0.0850 to 0.115		102	70.0 to 130	5.54	20.0
BC06753	Cobalt, Dissolved	mg/L	-0.0000214	0.000147	0.100	0.110	0.110	0.103	0.0850 to 0.115		99.8	70.0 to 130	0.00	20.0
BC06753	Cobalt, Total	mg/L	-0.0000181	0.000147	0.100	0.114	0.108	0.102	0.0850 to 0.115		104	70.0 to 130	5.41	20.0
BC06753	Fluoride	mg/L	-0.00629	0.125	2.50	2.76	2.77	2.55	2.25 to 2.75		102	80.0 to 120	0.362	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230		-500	70.0 to 130	2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 14:40
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BC06751

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06753	Lead, Dissolved	mg/L	0.0000085	0.000147	0.100	0.0988	0.0981	0.0995	0.0850 to 0.115	98.8	70.0 to 130	0.711	20.0
BC06753	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0981	0.0975	0.0995	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06753	Manganese, Dissolved	mg/L	-0.000074	0.0002	0.100	2.03	2.07	0.102	0.0850 to 0.115	100	70.0 to 130	1.95	20.0
BC06753	Manganese, Total	mg/L	-0.0000526	0.0002	0.100	2.09	2.15	0.101	0.0850 to 0.115	100	70.0 to 130	2.83	20.0
BC06753	Mercury, Total by CVAA	mg/L	-0.00018	0.000500	0.004	0.00387	0.00391	0.00387	0.00340 to 0.00460	96.8	70.0 to 130	1.03	20.0
BC06753	Molybdenum, Dissolved	mg/L	-0.0000145	0.0002	0.100	0.101	0.100	0.0989	0.0850 to 0.115	97.8	70.0 to 130	0.995	20.0
BC06753	Molybdenum, Total	mg/L	-0.0000238	0.0002	0.100	0.101	0.0988	0.0993	0.0850 to 0.115	97.5	70.0 to 130	2.20	20.0
BC06753	Potassium, Dissolved	mg/L	-0.00591	0.367	10.0	16.0	15.7	10.0	8.50 to 11.5	96.0	70.0 to 130	1.89	20.0
BC06753	Potassium, Total	mg/L	-0.0359	0.367	10.0	16.5	16.0	9.95	8.50 to 11.5	100	70.0 to 130	3.08	20.0
BC06753	Selenium, Dissolved	mg/L	0.0000407	0.00100	0.100	0.102	0.101	0.106	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06753	Selenium, Total	mg/L	-0.0000212	0.00100	0.100	0.101	0.0981	0.102	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0
BC06753	Sulfate	mg/L	-0.0181	2.0	320	504	517	19.4	18.0 to 22.0	108	80.0 to 120	2.55	20.0
BC06753	Thallium, Dissolved	mg/L	0.0000054	0.000147	0.100	0.0922	0.0917	0.0929	0.0850 to 0.115	92.2	70.0 to 130	0.544	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 14:40

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BC06751

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06753	Thallium, Total	mg/L	0.0000109	0.000147	0.100	0.0916	0.0931	0.0955	0.0850 to 0.115	91.6	70.0 to 130	1.62	20.0
BC06753	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.5	11.2	25.3		98.1	80.0 to 120	2.64	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 14:40

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BC06751

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06981	Alkalinity, Total as CaCO3	mg/L					265	51.2	45.0 to 55.0			7.27	10.0
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06753	Solids, Dissolved	mg/L	1.00	25.0			492	46.0	40.0 to 60.0			0.816	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 4/4/22 16:18
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06752

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:24		1.015	2.32	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:06		20.3	104	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:06		20.3	26.6	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 10:24		1.015	0.647	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 10:24		1.015	29.0	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:24		1	19.6	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:24		1.015	9.15	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 12:06		20.3	42.8	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:14		1.015	2.25	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:09		20.3	108	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:09		20.3	30.0	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:14		1.015	0.710	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:14		1.015	28.6	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:14		1	20.0	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:14		1.015	9.36	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 12:09		20.3	45.0	mg/L	0.609	8.12	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/6/22 09:22	4/6/22 14:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/6/22 09:22	4/6/22 14:54		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/6/22 09:22	4/6/22 14:54		1.015	0.861	mg/L	0.000081	0.000203	
* Barium, Total	4/6/22 09:22	4/6/22 14:54		1.015	0.270	mg/L	0.000102	0.000203	
* Beryllium, Total	4/6/22 09:22	4/6/22 14:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/6/22 09:22	4/6/22 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/6/22 09:22	4/6/22 14:54		1.015	0.000224	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/6/22 09:22	4/6/22 14:54		1.015	0.0115	mg/L	0.000068	0.000203	
* Lead, Total	4/6/22 09:22	4/6/22 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/6/22 09:22	4/6/22 15:34		5.075	2.42	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/6/22 09:22	4/6/22 14:54		1.015	0.0540	mg/L	0.000102	0.000203	
* Potassium, Total	4/6/22 09:22	4/6/22 14:54		1.015	12.5	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 4/4/22 16:18
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06752

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/6/22 09:22	4/6/22 14:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/6/22 09:22	4/6/22 14:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	0.875	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	0.252	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	0.000233	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	0.0114	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/6/22 10:05	4/6/22 13:56		5.075	2.22	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	0.0546	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	12.4	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/6/22 10:05	4/6/22 12:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/7/22 14:37	4/7/22 19:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:38	4/11/22 15:38		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/18/22 12:35	4/18/22 15:45		1	505	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	556	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	499	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	6.18	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/7/22 23:48	4/7/22 23:48		1	2.06	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 4/4/22 16:18
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06752

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 12:48	4/6/22 12:48		1	8.06	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:12	4/6/22 14:12		1	0.564	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 15:30	4/11/22 15:30		3	65.5	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/4/22 16:14	4/4/22 16:14			773.09	uS/cm			FA
pH	4/4/22 16:14	4/4/22 16:14			6.71	SU			FA
Temperature	4/4/22 16:14	4/4/22 16:14			26.47	C			FA
Turbidity	4/4/22 16:14	4/4/22 16:14			2.05	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 16:18
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BC06752

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06753	Aluminum, Dissolved	mg/L	0.000227	0.010	0.100	0.0985	0.0978	0.101	0.0850 to 0.115	98.5	70.0 to 130	0.713	20.0
BC06753	Aluminum, Total	mg/L	0.000768	0.010	0.100	0.108	0.103	0.0988	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC06753	Antimony, Dissolved	mg/L	0.000270	0.00100	0.100	0.0849	0.0876	0.0873	0.0850 to 0.115	84.9	70.0 to 130	3.13	20.0
BC06753	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.101	0.0992	0.0916	0.0850 to 0.115	101	70.0 to 130	1.80	20.0
BC06753	Arsenic, Dissolved	mg/L	-0.000138	0.000176	0.100	0.462	0.471	0.100	0.0850 to 0.115	80.0	70.0 to 130	1.93	20.0
BC06753	Arsenic, Total	mg/L	0.000004	0.000176	0.100	0.513	0.511	0.101	0.0850 to 0.115	81.0	70.0 to 130	0.391	20.0
BC06753	Barium, Dissolved	mg/L	-0.000041	0.00100	0.100	0.225	0.231	0.0935	0.0850 to 0.115	100	70.0 to 130	2.63	20.0
BC06753	Barium, Total	mg/L	-0.0000526	0.00100	0.100	0.231	0.225	0.0956	0.0850 to 0.115	100	70.0 to 130	2.63	20.0
BC06753	Beryllium, Dissolved	mg/L	0.0000378	0.000880	0.100	0.0931	0.0935	0.0926	0.0850 to 0.115	93.1	70.0 to 130	0.429	20.0
BC06753	Beryllium, Total	mg/L	0.0000141	0.000880	0.100	0.0912	0.0886	0.0895	0.0850 to 0.115	91.2	70.0 to 130	2.89	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15	101	70.0 to 130	1.87	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BC06753	Cadmium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.100	0.0966	0.101	0.0850 to 0.115	100	70.0 to 130	3.46	20.0
BC06753	Cadmium, Total	mg/L	-0.0000297	0.000147	0.100	0.102	0.0950	0.103	0.0850 to 0.115	102	70.0 to 130	7.11	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75	70.0	70.0 to 130	2.56	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75	380	70.0 to 130	2.22	20.0
BC06753	Chloride	mg/L	-0.0468	1.00	10.0	19.5	19.8	9.77	9.00 to 11.0	98.7	80.0 to 120	1.53	20.0
BC06753	Chromium, Dissolved	mg/L	-0.0000231	0.000440	0.100	0.0973	0.0976	0.101	0.0850 to 0.115	97.3	70.0 to 130	0.308	20.0
BC06753	Chromium, Total	mg/L	-0.0000043	0.000440	0.100	0.102	0.0965	0.0997	0.0850 to 0.115	102	70.0 to 130	5.54	20.0
BC06753	Cobalt, Dissolved	mg/L	-0.0000214	0.000147	0.100	0.110	0.110	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.00	20.0
BC06753	Cobalt, Total	mg/L	-0.0000181	0.000147	0.100	0.114	0.108	0.102	0.0850 to 0.115	104	70.0 to 130	5.41	20.0
BC06753	Fluoride	mg/L	-0.00629	0.125	2.50	2.76	2.77	2.55	2.25 to 2.75	102	80.0 to 120	0.362	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230	-500	70.0 to 130	2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 16:18
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BC06752

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06753	Lead, Dissolved	mg/L	0.0000085	0.000147	0.100	0.0988	0.0981	0.0995	0.0850 to 0.115	98.8	70.0 to 130	0.711	20.0
BC06753	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0981	0.0975	0.0995	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06753	Manganese, Dissolved	mg/L	-0.000074	0.0002	0.100	2.03	2.07	0.102	0.0850 to 0.115	100	70.0 to 130	1.95	20.0
BC06753	Manganese, Total	mg/L	-0.0000526	0.0002	0.100	2.09	2.15	0.101	0.0850 to 0.115	100	70.0 to 130	2.83	20.0
BC06753	Mercury, Total by CVAA	mg/L	-0.00018	0.000500	0.004	0.00387	0.00391	0.00387	0.00340 to 0.00460	96.8	70.0 to 130	1.03	20.0
BC06753	Molybdenum, Dissolved	mg/L	-0.0000145	0.0002	0.100	0.101	0.100	0.0989	0.0850 to 0.115	97.8	70.0 to 130	0.995	20.0
BC06753	Molybdenum, Total	mg/L	-0.0000238	0.0002	0.100	0.101	0.0988	0.0993	0.0850 to 0.115	97.5	70.0 to 130	2.20	20.0
BC06753	Potassium, Dissolved	mg/L	-0.00591	0.367	10.0	16.0	15.7	10.0	8.50 to 11.5	96.0	70.0 to 130	1.89	20.0
BC06753	Potassium, Total	mg/L	-0.0359	0.367	10.0	16.5	16.0	9.95	8.50 to 11.5	100	70.0 to 130	3.08	20.0
BC06753	Selenium, Dissolved	mg/L	0.0000407	0.00100	0.100	0.102	0.101	0.106	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06753	Selenium, Total	mg/L	-0.0000212	0.00100	0.100	0.101	0.0981	0.102	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0
BC06753	Sulfate	mg/L	-0.0181	2.0	320	504	517	19.4	18.0 to 22.0	108	80.0 to 120	2.55	20.0
BC06753	Thallium, Dissolved	mg/L	0.0000054	0.000147	0.100	0.0922	0.0917	0.0929	0.0850 to 0.115	92.2	70.0 to 130	0.544	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 16:18

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BC06752

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06753	Thallium, Total	mg/L	0.0000109	0.000147	0.100	0.0916	0.0931	0.0955	0.0850 to 0.115	91.6	70.0 to 130	1.62	20.0
BC06753	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.5	11.2	25.3		98.1	80.0 to 120	2.64	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 16:18

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BC06752

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06981	Alkalinity, Total as CaCO3	mg/L					265	51.2	45.0 to 55.0			7.27	10.0
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06753	Solids, Dissolved	mg/L	1.00	25.0			492	46.0	40.0 to 60.0			0.816	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 4/4/22 18:31
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06753

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:27		1.015	0.615	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:09		20.3	98.8	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:09		20.3	34.0	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 10:27		1.015	0.102	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 10:27		1.015	20.2	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:27		1	18.0	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:27		1.015	8.43	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:27		1.015	21.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:18		1.015	0.614	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:13		20.3	95.6	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:13		20.3	33.2	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:18		1.015	0.111	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:18		1.015	19.8	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:18		1	18.3	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:18		1.015	8.56	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:18		1.015	23.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/6/22 09:22	4/6/22 14:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/6/22 09:22	4/6/22 14:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/6/22 09:22	4/6/22 14:58		1.015	0.432	mg/L	0.000081	0.000203	
* Barium, Total	4/6/22 09:22	4/6/22 14:58		1.015	0.131	mg/L	0.000102	0.000203	
* Beryllium, Total	4/6/22 09:22	4/6/22 14:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/6/22 09:22	4/6/22 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/6/22 09:22	4/6/22 14:58		1.015	0.000249	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/6/22 09:22	4/6/22 14:58		1.015	0.0104	mg/L	0.000068	0.000203	
* Lead, Total	4/6/22 09:22	4/6/22 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/6/22 09:22	4/6/22 15:38		5.075	1.99	mg/L	0.000761	0.001015	RA
* Molybdenum, Total	4/6/22 09:22	4/6/22 14:58		1.015	0.00354	mg/L	0.000102	0.000203	
* Potassium, Total	4/6/22 09:22	4/6/22 14:58		1.015	6.46	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 4/4/22 18:31
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06753

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/6/22 09:22	4/6/22 14:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/6/22 09:22	4/6/22 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	0.382	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	0.125	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	0.0102	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/6/22 10:05	4/6/22 14:00		5.075	1.93	mg/L	0.000761	0.001015	RA
* Molybdenum, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	0.00321	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	6.40	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/6/22 10:05	4/6/22 12:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	4/7/22 14:37	4/7/22 19:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:40	4/11/22 15:40		1	0.224	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/18/22 12:35	4/18/22 15:45		1	234	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	488	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	233	mg/L			
Carbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	0.551	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/8/22 00:07	4/7/22 00:07		1	1.69	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 4/4/22 18:31
Customer ID:
Submittal Date: 4/5/22 12:49

Laboratory ID Number: BC06753

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 12:49	4/6/22 12:49		1	9.63	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:08	4/6/22 14:08		1	0.216	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/11/22 15:31	4/11/22 15:31		16	160	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/4/22 18:28	4/4/22 18:28			508.59	uS/cm			FA
pH	4/4/22 18:28	4/4/22 18:28			6.42	SU			FA
Temperature	4/4/22 18:28	4/4/22 18:28			25.49	C			FA
Turbidity	4/4/22 18:28	4/4/22 18:28			4.78	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 18:31
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BC06753

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit	
				Limit	Spike				Limit	Limit	Rec	Limit			Prec
BC06753	Aluminum, Dissolved	mg/L	0.000227	0.010	0.100	0.0985	0.0978	0.101	0.0850 to 0.115		98.5	70.0 to 130		0.713	20.0
BC06753	Aluminum, Total	mg/L	0.000768	0.010	0.100	0.108	0.103	0.0988	0.0850 to 0.115		108	70.0 to 130		4.74	20.0
BC06753	Antimony, Dissolved	mg/L	0.000270	0.00100	0.100	0.0849	0.0876	0.0873	0.0850 to 0.115		84.9	70.0 to 130		3.13	20.0
BC06753	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.101	0.0992	0.0916	0.0850 to 0.115		101	70.0 to 130		1.80	20.0
BC06753	Arsenic, Dissolved	mg/L	-0.0000138	0.000176	0.100	0.462	0.471	0.100	0.0850 to 0.115		80.0	70.0 to 130		1.93	20.0
BC06753	Arsenic, Total	mg/L	0.000004	0.000176	0.100	0.513	0.511	0.101	0.0850 to 0.115		81.0	70.0 to 130		0.391	20.0
BC06753	Barium, Dissolved	mg/L	-0.000041	0.00100	0.100	0.225	0.231	0.0935	0.0850 to 0.115		100	70.0 to 130		2.63	20.0
BC06753	Barium, Total	mg/L	-0.0000526	0.00100	0.100	0.231	0.225	0.0956	0.0850 to 0.115		100	70.0 to 130		2.63	20.0
BC06753	Beryllium, Dissolved	mg/L	0.0000378	0.000880	0.100	0.0931	0.0935	0.0926	0.0850 to 0.115		93.1	70.0 to 130		0.429	20.0
BC06753	Beryllium, Total	mg/L	0.0000141	0.000880	0.100	0.0912	0.0886	0.0895	0.0850 to 0.115		91.2	70.0 to 130		2.89	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15		101	70.0 to 130		1.87	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15		105	70.0 to 130		0.00	20.0
BC06753	Cadmium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.100	0.0966	0.101	0.0850 to 0.115		100	70.0 to 130		3.46	20.0
BC06753	Cadmium, Total	mg/L	-0.0000297	0.000147	0.100	0.102	0.0950	0.103	0.0850 to 0.115		102	70.0 to 130		7.11	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75		70.0	70.0 to 130		2.56	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75		380	70.0 to 130		2.22	20.0
BC06753	Chloride	mg/L	-0.0468	1.00	10.0	19.5	19.8	9.77	9.00 to 11.0		98.7	80.0 to 120		1.53	20.0
BC06753	Chromium, Dissolved	mg/L	-0.0000231	0.000440	0.100	0.0973	0.0976	0.101	0.0850 to 0.115		97.3	70.0 to 130		0.308	20.0
BC06753	Chromium, Total	mg/L	-0.0000043	0.000440	0.100	0.102	0.0965	0.0997	0.0850 to 0.115		102	70.0 to 130		5.54	20.0
BC06753	Cobalt, Dissolved	mg/L	-0.0000214	0.000147	0.100	0.110	0.110	0.103	0.0850 to 0.115		99.8	70.0 to 130		0.00	20.0
BC06753	Cobalt, Total	mg/L	-0.0000181	0.000147	0.100	0.114	0.108	0.102	0.0850 to 0.115		104	70.0 to 130		5.41	20.0
BC06753	Fluoride	mg/L	-0.00629	0.125	2.50	2.76	2.77	2.55	2.25 to 2.75		102	80.0 to 120		0.362	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230		-500	70.0 to 130		2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/4/22 18:31
Customer ID:
Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BC06753

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06753	Lead, Dissolved	mg/L	0.0000085	0.000147	0.100	0.0988	0.0981	0.0995	0.0850 to 0.115	98.8	70.0 to 130	0.711	20.0
BC06753	Lead, Total	mg/L	0.0000144	0.000147	0.100	0.0981	0.0975	0.0995	0.0850 to 0.115	98.1	70.0 to 130	0.613	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06753	Manganese, Dissolved	mg/L	-0.000074	0.0002	0.100	2.03	2.07	0.102	0.0850 to 0.115	100	70.0 to 130	1.95	20.0
BC06753	Manganese, Total	mg/L	-0.0000526	0.0002	0.100	2.09	2.15	0.101	0.0850 to 0.115	100	70.0 to 130	2.83	20.0
BC06753	Mercury, Total by CVAA	mg/L	-0.00018	0.000500	0.004	0.00387	0.00391	0.00387	0.00340 to 0.00460	96.8	70.0 to 130	1.03	20.0
BC06753	Molybdenum, Dissolved	mg/L	-0.0000145	0.0002	0.100	0.101	0.100	0.0989	0.0850 to 0.115	97.8	70.0 to 130	0.995	20.0
BC06753	Molybdenum, Total	mg/L	-0.0000238	0.0002	0.100	0.101	0.0988	0.0993	0.0850 to 0.115	97.5	70.0 to 130	2.20	20.0
BC06753	Potassium, Dissolved	mg/L	-0.00591	0.367	10.0	16.0	15.7	10.0	8.50 to 11.5	96.0	70.0 to 130	1.89	20.0
BC06753	Potassium, Total	mg/L	-0.0359	0.367	10.0	16.5	16.0	9.95	8.50 to 11.5	100	70.0 to 130	3.08	20.0
BC06753	Selenium, Dissolved	mg/L	0.0000407	0.00100	0.100	0.102	0.101	0.106	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06753	Selenium, Total	mg/L	-0.0000212	0.00100	0.100	0.101	0.0981	0.102	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0
BC06753	Sulfate	mg/L	-0.0181	2.0	320	504	517	19.4	18.0 to 22.0	108	80.0 to 120	2.55	20.0
BC06753	Thallium, Dissolved	mg/L	0.0000054	0.000147	0.100	0.0922	0.0917	0.0929	0.0850 to 0.115	92.2	70.0 to 130	0.544	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 18:31

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BC06753

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06753	Thallium, Total	mg/L	0.0000109	0.000147	0.100	0.0916	0.0931	0.0955	0.0850 to 0.115	91.6	70.0 to 130	1.62	20.0
BC06753	Total Organic Carbon	mg/L	0.400	1.00	10.0	11.5	11.2	25.3		98.1	80.0 to 120	2.64	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 18:31

Customer ID:

Delivery Date: 4/5/22 12:49

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BC06753

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06981	Alkalinity, Total as CaCO3	mg/L					265	51.2	45.0 to 55.0			7.27	10.0
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06753	Solids, Dissolved	mg/L	1.00	25.0			492	46.0	40.0 to 60.0			0.816	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 4/5/22 17:00
Customer ID:
Submittal Date: 4/7/22 13:11

Laboratory ID Number: BC06971

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/11/22 14:00	4/12/22 10:30		1.015	0.351	mg/L	0.030000	0.1015		
* Calcium, Total	4/11/22 14:00	4/12/22 12:11		20.3	209	mg/L	1.4007	8.12	RA	
* Iron, Total	4/11/22 14:00	4/12/22 12:11		20.3	73.3	mg/L	0.1624	0.812	RA	
* Lithium, Total	4/11/22 14:00	4/12/22 10:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/11/22 14:00	4/12/22 12:11		20.3	43.4	mg/L	0.4263	8.12	RA	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:30		1	10.7	mg/L				
Silicon, Total	4/11/22 14:00	4/12/22 10:30		1.015	5.02	mg/L	0.02030	0.25375		
* Sodium, Total	4/11/22 14:00	4/12/22 10:30		1.015	24.6	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:21		1.015	0.373	mg/L	0.030000	0.1015		
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:16		20.3	210	mg/L	1.4007	8.12		
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:16		20.3	77.4	mg/L	0.1624	0.812		
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 12:16		20.3	45.1	mg/L	0.4263	8.12		
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:21		1	11.1	mg/L				
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:21		1.015	5.21	mg/L	0.02030	0.25375		
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:21		1.015	27.2	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/8/22 12:07	4/11/22 13:10		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	4/8/22 12:07	4/11/22 13:10		1.015	0.233	mg/L	0.006090	0.01015		
* Arsenic, Total	4/8/22 12:07	4/11/22 13:10		1.015	0.00404	mg/L	0.000081	0.000203		
* Barium, Total	4/8/22 12:07	4/11/22 13:10		1.015	0.0665	mg/L	0.000102	0.000203		
* Beryllium, Total	4/8/22 12:07	4/11/22 13:10		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/8/22 12:07	4/11/22 13:10		1.015	0.0000792	mg/L	0.000068	0.000203	J	
* Chromium, Total	4/8/22 12:07	4/11/22 13:10		1.015	0.000468	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/8/22 12:07	4/11/22 13:10		1.015	0.390	mg/L	0.000068	0.000203		
* Lead, Total	4/8/22 12:07	4/11/22 13:10		1.015	0.000200	mg/L	0.000068	0.000203	J	
* Manganese, Total	4/8/22 12:07	4/11/22 14:39		92.365	13.3	mg/L	0.013855	0.018473		
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:10		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	4/8/22 12:07	4/11/22 13:10		1.015	6.97	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 4/5/22 17:00
Customer ID:
Submittal Date: 4/7/22 13:11

Laboratory ID Number: BC06971

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 13:10		1.015	0.00192	mg/L	0.000508	0.001015	
* Thallium, Total	4/8/22 12:07	4/11/22 13:10		1.015	0.0000945	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	0.132	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	0.00416	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	0.0679	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	0.0000746	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	0.395	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	0.000202	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:25		92.365	13.4	mg/L	0.013855	0.018473	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	7.14	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	0.00170	mg/L	0.000508	0.001015	
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:07		1.015	0.000107	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 20:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:41	4/11/22 15:41		1	0.382	mg/L as N	0.20	0.3	R
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/18/22 12:35	4/18/22 15:45		1	66.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	1210	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	66.0	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 17:03	4/11/22 17:03		1	1.44	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP

Collected: 4/5/22 17:00

Customer ID:

Submittal Date: 4/7/22 13:11

Laboratory ID Number: BC06971

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:20	4/13/22 09:20		1	7.86	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:12	4/14/22 10:12		1	0.158	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:34	4/12/22 10:34		40	833	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/5/22 16:56	4/5/22 16:56			1260.99	uS/cm			FA
pH	4/5/22 16:56	4/5/22 16:56			5.95	SU			FA
Temperature	4/5/22 16:56	4/5/22 16:56			27.79	C			FA
Turbidity	4/5/22 16:56	4/5/22 16:56			4.61	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 17:00

Customer ID:

Delivery Date: 4/7/22 13:11

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BC06971

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06980	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.203	0.204	0.102	0.0850 to 0.115	103	70.0 to 130	0.491	20.0
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0949	0.0954	0.0906	0.0850 to 0.115	94.9	70.0 to 130	0.525	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.108	0.108	0.0962	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.180	0.177	0.0938	0.0850 to 0.115	91.9	70.0 to 130	1.68	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.0979	0.101	0.0910	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15	101	70.0 to 130	1.87	20.0
BC06971	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.40	1.40	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BC06980	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.0966	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75	70.0	70.0 to 130	2.56	20.0
BC06971	Calcium, Total	mg/L	0.00368	0.152	5.00	228	223	4.96	4.25 to 5.75	380	70.0 to 130	2.22	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0991	0.100	0.0957	0.0850 to 0.115	98.9	70.0 to 130	0.904	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.121	0.122	0.0980	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230	-500	70.0 to 130	2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/5/22 17:00
Customer ID:
Delivery Date: 4/7/22 13:11

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BC06971

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06971	Iron, Total	mg/L	0.000206	0.0176	0.2	75.3	75.8	0.202	0.170 to 0.230	1000	70.0 to 130	0.662	20.0
BC06980	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06971	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.211	0.219	0.202	0.170 to 0.230	106	70.0 to 130	3.72	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06971	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	50.6	50.2	5.26	4.25 to 5.75	144	70.0 to 130	0.794	20.0
BC06980	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.606	0.619	0.0993	0.0850 to 0.115	89.0	70.0 to 130	2.12	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.0983	0.0985	0.0981	0.0850 to 0.115	97.9	70.0 to 130	0.203	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	13.0	13.0	9.93	8.50 to 11.5	99.3	70.0 to 130	0.00	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.104	0.104	0.0983	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06971	Silicon, Total	mg/L	-0.000061	0.0440	1.00	5.99	5.96	1.02	0.850 to 1.15	97.0	70.0 to 130	0.502	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06971	Sodium, Total	mg/L	0.00116	0.0660	5.00	29.8	31.1	5.20	4.25 to 5.75	104	70.0 to 130	4.27	20.0
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0
BC06980	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.101	0.104	0.0850 to 0.115	104	70.0 to 130	2.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 17:00

Customer ID:

Delivery Date: 4/7/22 13:11

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BC06971

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 17:00

Customer ID:

Delivery Date: 4/7/22 13:11

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BC06971

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06981	Alkalinity, Total as CaCO3	mg/L					265	51.2	45.0 to 55.0			7.27	10.0
BC06971	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.98	0.381	1.93	1.80 to 2.20	79.9	90.0 to 110	0.262	15.0
BC06983	Solids, Dissolved	mg/L	0.0000	25.0			430	51.0	40.0 to 60.0			4.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP
Collected: 4/5/22 18:10
Customer ID:
Submittal Date: 4/7/22 13:11

Laboratory ID Number: BC06972

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:44		1.015	0.0453	mg/L	0.030000	0.1015	J
* Calcium, Total	4/11/22 14:00	4/12/22 12:20		20.3	67.4	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:20		20.3	45.2	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 10:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 10:44		1.015	4.51	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:44		1	9.42	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:44		1.015	4.40	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:44		1.015	29.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:24		1.015	0.0549	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:20		20.3	69.9	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:20		20.3	49.4	mg/L	0.1624	0.812	RA
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:24		1.015	4.43	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:24		1	9.52	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:24		1.015	4.45	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:24		1.015	28.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 13:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 13:13		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/8/22 12:07	4/11/22 13:13		1.015	0.0100	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 13:13		1.015	0.145	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 13:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 13:13		1.015	0.000390	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 13:13		1.015	0.000826	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/8/22 12:07	4/11/22 13:13		1.015	0.356	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:13		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/8/22 12:07	4/11/22 13:13		1.015	0.817	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP
Collected: 4/5/22 18:10
Customer ID:
Submittal Date: 4/7/22 13:11

Laboratory ID Number: BC06972

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 13:13		1.015	0.000744	mg/L	0.000508	0.001015	J
* Thallium, Total	4/8/22 12:07	4/11/22 13:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	0.0103	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	0.137	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	0.000219	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	0.000870	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	0.371	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	0.788	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	0.000651	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 20:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:51	4/11/22 15:51		1	0.207	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/18/22 12:35	4/18/22 15:45		1	287	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	339	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	287	mg/L			
Carbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 17:20	4/11/22 17:20		1	9.87	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP

Collected: 4/5/22 18:10

Customer ID:

Submittal Date: 4/7/22 13:11

Laboratory ID Number: BC06972

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:34	4/13/22 09:34		2	21.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:13	4/14/22 10:13		1	0.185	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:35	4/12/22 10:35		1	15.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/5/22 18:08	4/5/22 18:08			532.06	uS/cm			FA
pH	4/5/22 18:08	4/5/22 18:08			6.27	SU			FA
Temperature	4/5/22 18:08	4/5/22 18:08			26.33	C			FA
Turbidity	4/5/22 18:08	4/5/22 18:08			1.8	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/5/22 18:10
Customer ID:
Delivery Date: 4/7/22 13:11

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BC06972

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06980	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.203	0.204	0.102	0.0850 to 0.115	103	70.0 to 130	0.491	20.0
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0949	0.0954	0.0906	0.0850 to 0.115	94.9	70.0 to 130	0.525	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.108	0.108	0.0962	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.180	0.177	0.0938	0.0850 to 0.115	91.9	70.0 to 130	1.68	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.0979	0.101	0.0910	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06972	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.06	1.08	1.03	0.850 to 1.15	101	70.0 to 130	1.87	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06980	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.0966	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06972	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	73.4	75.3	5.16	4.25 to 5.75	70.0	70.0 to 130	2.56	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0991	0.100	0.0957	0.0850 to 0.115	98.9	70.0 to 130	0.904	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.121	0.122	0.0980	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06972	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	48.4	49.4	0.203	0.170 to 0.230	-500	70.0 to 130	2.04	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 18:10

Customer ID:

Delivery Date: 4/7/22 13:11

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BC06972

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06980	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06972	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.211	0.215	0.200	0.170 to 0.230	106	70.0 to 130	1.88	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06972	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	9.53	9.63	5.32	4.25 to 5.75	102	70.0 to 130	1.04	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06980	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.606	0.619	0.0993	0.0850 to 0.115	89.0	70.0 to 130	2.12	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.0983	0.0985	0.0981	0.0850 to 0.115	97.9	70.0 to 130	0.203	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	13.0	13.0	9.93	8.50 to 11.5	99.3	70.0 to 130	0.00	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.104	0.104	0.0983	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06972	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.49	5.49	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06972	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	34.4	34.5	5.15	4.25 to 5.75	112	70.0 to 130	0.290	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0
BC06980	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.101	0.104	0.0850 to 0.115	104	70.0 to 130	2.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 18:10

Customer ID:

Delivery Date: 4/7/22 13:11

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BC06972

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0		
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0		

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 18:10

Customer ID:

Delivery Date: 4/7/22 13:11

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BC06972

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06981	Alkalinity, Total as CaCO3	mg/L					265	51.2	45.0 to 55.0			7.27	10.0
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06983	Solids, Dissolved	mg/L	0.0000	25.0			430	51.0	40.0 to 60.0			4.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 4/6/22 08:33
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06973

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:47		1.015	1.46	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:23		20.3	69.6	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:23		20.3	17.6	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 10:47		1.015	0.0231	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 10:47		1.015	13.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:47		1	10.2	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:47		1.015	4.77	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:47		1.015	36.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:41		1.015	1.44	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:30		20.3	60.7	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:30		20.3	15.9	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:41		1.015	0.0246	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:41		1.015	13.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:41		1	10.5	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:41		1.015	4.90	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:41		1.015	36.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 13:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 13:17		1.015	0.0104	mg/L	0.006090	0.01015	
* Arsenic, Total	4/8/22 12:07	4/11/22 13:17		1.015	0.00515	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 13:17		1.015	0.147	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 13:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 13:17		1.015	0.000241	mg/L	0.000068	0.000203	
* Chromium, Total	4/8/22 12:07	4/11/22 13:17		1.015	0.000278	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 13:17		1.015	0.0651	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 13:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/8/22 12:07	4/11/22 14:42		10.15	6.70	mg/L	0.001522	0.00203	
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:17		1.015	0.000233	mg/L	0.000102	0.000203	
* Potassium, Total	4/8/22 12:07	4/11/22 13:17		1.015	4.25	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 4/6/22 08:33
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06973

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 13:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/8/22 12:07	4/11/22 13:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	0.00502	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	0.151	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	0.000260	mg/L	0.000068	0.000203	
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	0.0704	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:28		10.15	6.51	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	0.000284	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	4.49	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 20:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:52	4/11/22 15:52		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/21/22 13:07	4/21/22 14:14		1	221	mg/L		0.1	HT
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	359	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	221	mg/L			
Carbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 17:39	4/11/22 17:39		1	2.63	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP

Collected: 4/6/22 08:33

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06973

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:23	4/13/22 09:23		1	15.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:14	4/14/22 10:14		1	0.0664	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:36	4/12/22 10:36		4	95.9	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/22 08:30	4/6/22 08:30			577.97	uS/cm			FA
pH	4/6/22 08:30	4/6/22 08:30			6.10	SU			FA
Temperature	4/6/22 08:30	4/6/22 08:30			24.82	C			FA
Turbidity	4/6/22 08:30	4/6/22 08:30			3.33	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 08:33
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BC06973

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06980	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.203	0.204	0.102	0.0850 to 0.115	103	70.0 to 130	0.491	20.0
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0949	0.0954	0.0906	0.0850 to 0.115	94.9	70.0 to 130	0.525	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.108	0.108	0.0962	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.180	0.177	0.0938	0.0850 to 0.115	91.9	70.0 to 130	1.68	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.0979	0.101	0.0910	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06980	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.0966	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0991	0.100	0.0957	0.0850 to 0.115	98.9	70.0 to 130	0.904	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.121	0.122	0.0980	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 08:33
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BC06973

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06980	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06980	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.606	0.619	0.0993	0.0850 to 0.115	89.0	70.0 to 130	2.12	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.0983	0.0985	0.0981	0.0850 to 0.115	97.9	70.0 to 130	0.203	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	13.0	13.0	9.93	8.50 to 11.5	99.3	70.0 to 130	0.00	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.104	0.104	0.0983	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0
BC06980	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.101	0.104	0.0850 to 0.115	104	70.0 to 130	2.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 08:33

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BC06973

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 08:33

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BC06973

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Alkalinity, Total as CaCO3	mg/L					41.8	51.4	45.0 to 55.0			2.18	10.0
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06983	Solids, Dissolved	mg/L	0.0000	25.0			430	51.0	40.0 to 60.0			4.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP
Collected: 4/6/22 09:38
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06974

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:50		1.015	1.29	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:26		20.3	110	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:26		20.3	11.9	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 10:50		1.015	0.261	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 10:50		1.015	31.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:50		1	9.16	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:50		1.015	4.28	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 12:26		20.3	49.9	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:45		1.015	1.26	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:33		20.3	106	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:33		20.3	12.1	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:45		1.015	0.288	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:45		1.015	31.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:45		1	9.42	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:45		1.015	4.40	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 12:33		20.3	51.0	mg/L	0.609	8.12	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 13:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 13:20		1.015	0.00610	mg/L	0.006090	0.01015	J
* Arsenic, Total	4/8/22 12:07	4/11/22 13:20		1.015	0.0110	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 13:20		1.015	0.168	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 13:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 13:20		1.015	0.000264	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 13:20		1.015	0.0184	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/8/22 12:07	4/11/22 14:46		10.15	9.68	mg/L	0.001522	0.00203	
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:20		1.015	0.00264	mg/L	0.000102	0.000203	
* Potassium, Total	4/8/22 12:07	4/11/22 13:20		1.015	8.80	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP

Collected: 4/6/22 09:38

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06974

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 13:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/8/22 12:07	4/11/22 13:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	0.0114	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	0.169	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	0.0183	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:32		10.15	9.19	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	0.00264	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	8.91	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 20:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:54	4/11/22 15:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/21/22 13:07	4/21/22 14:14		1	370	mg/L		0.1	HT
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	540	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	370	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 17:58	4/11/22 17:58		1	2.10	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP

Collected: 4/6/22 09:38

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06974

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:36	4/13/22 09:36		4	37.1	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:15	4/14/22 10:15		1	0.133	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:37	4/12/22 10:37		5	106	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/22 09:34	4/6/22 09:34			839.57	uS/cm			FA
pH	4/6/22 09:34	4/6/22 09:34			6.43	SU			FA
Temperature	4/6/22 09:34	4/6/22 09:34			25.25	C			FA
Turbidity	4/6/22 09:34	4/6/22 09:34			4.25	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 09:38
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BC06974

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06980	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.203	0.204	0.102	0.0850 to 0.115	103	70.0 to 130	0.491	20.0
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0949	0.0954	0.0906	0.0850 to 0.115	94.9	70.0 to 130	0.525	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.108	0.108	0.0962	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.180	0.177	0.0938	0.0850 to 0.115	91.9	70.0 to 130	1.68	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.0979	0.101	0.0910	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06980	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.0966	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0991	0.100	0.0957	0.0850 to 0.115	98.9	70.0 to 130	0.904	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.121	0.122	0.0980	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 09:38
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BC06974

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06980	Lead, Dissolved	mg/L	0.000082	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06980	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.606	0.619	0.0993	0.0850 to 0.115	89.0	70.0 to 130	2.12	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.0983	0.0985	0.0981	0.0850 to 0.115	97.9	70.0 to 130	0.203	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	13.0	13.0	9.93	8.50 to 11.5	99.3	70.0 to 130	0.00	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.104	0.104	0.0983	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0
BC06980	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.101	0.104	0.0850 to 0.115	104	70.0 to 130	2.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 09:38

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BC06974

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 09:38

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BC06974

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Alkalinity, Total as CaCO3	mg/L					41.8	51.4	45.0 to 55.0			2.18	10.0
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06983	Solids, Dissolved	mg/L	0.0000	25.0			430	51.0	40.0 to 60.0			4.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 4/6/22 11:10
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06975

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:53		1.015	0.260	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:35		20.3	55.5	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 10:53		1.015	0.312	mg/L	0.008120	0.0406	
* Lithium, Total	4/11/22 14:00	4/12/22 10:53		1.015	0.584	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 10:53		1.015	13.9	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:53		1	7.47	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:53		1.015	3.49	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:53		1.015	9.98	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:48		1.015	0.262	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:43		20.3	55.3	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 10:48		1.015	0.307	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:48		1.015	0.612	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:48		1.015	14.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:48		1	7.66	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:48		1.015	3.58	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:48		1.015	10.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 13:24		1.015	0.00200	mg/L	0.000508	0.001015	
* Aluminum, Total	4/8/22 12:07	4/11/22 13:24		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/8/22 12:07	4/11/22 13:24		1.015	0.00261	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 13:24		1.015	0.0701	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 13:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 13:24		1.015	0.0000792	mg/L	0.000068	0.000203	J
* Chromium, Total	4/8/22 12:07	4/11/22 13:24		1.015	0.000299	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 13:24		1.015	0.00126	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 13:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/8/22 12:07	4/11/22 14:49		5.075	2.05	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:24		1.015	0.0201	mg/L	0.000102	0.000203	
* Potassium, Total	4/8/22 12:07	4/11/22 13:24		1.015	6.61	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 4/6/22 11:10
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06975

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 13:24		1.015	0.111	mg/L	0.000508	0.001015	
* Thallium, Total	4/8/22 12:07	4/11/22 13:24		1.015	0.00169	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	0.00208	mg/L	0.000508	0.001015	
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	0.00269	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	0.0692	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	0.00131	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:35		5.075	2.17	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	0.0211	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	6.85	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	0.119	mg/L	0.000508	0.001015	
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:21		1.015	0.00164	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 15:56	4/11/22 15:56		1	0.746	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/21/22 13:07	4/21/22 14:14		1	66.8	mg/L		0.1	HT
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/12/22 10:28	4/13/22 13:15		1	298	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	66.8	mg/L			
Carbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 18:16	4/11/22 18:16		1	1.84	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP

Collected: 4/6/22 11:10

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06975

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:25	4/13/22 09:25		1	3.71	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:17	4/14/22 10:17		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:38	4/12/22 10:38		8	157	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/22 11:06	4/6/22 11:06			423.79	uS/cm			FA
pH	4/6/22 11:06	4/6/22 11:06			6.24	SU			FA
Temperature	4/6/22 11:06	4/6/22 11:06			26.70	C			FA
Turbidity	4/6/22 11:06	4/6/22 11:06			0.68	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 11:10
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BC06975

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06980	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.203	0.204	0.102	0.0850 to 0.115	103	70.0 to 130	0.491	20.0
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0949	0.0954	0.0906	0.0850 to 0.115	94.9	70.0 to 130	0.525	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.108	0.108	0.0962	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.180	0.177	0.0938	0.0850 to 0.115	91.9	70.0 to 130	1.68	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.0979	0.101	0.0910	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06980	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.0966	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0991	0.100	0.0957	0.0850 to 0.115	98.9	70.0 to 130	0.904	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.121	0.122	0.0980	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 11:10
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BC06975

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06980	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06980	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.606	0.619	0.0993	0.0850 to 0.115	89.0	70.0 to 130	2.12	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.0983	0.0985	0.0981	0.0850 to 0.115	97.9	70.0 to 130	0.203	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	13.0	13.0	9.93	8.50 to 11.5	99.3	70.0 to 130	0.00	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.104	0.104	0.0983	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0
BC06980	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.101	0.104	0.0850 to 0.115	104	70.0 to 130	2.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 11:10

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BC06975

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0		
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0		

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 11:10

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BC06975

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Alkalinity, Total as CaCO3	mg/L					41.8	51.4	45.0 to 55.0			2.18	10.0
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06984	Solids, Dissolved	mg/L	1.00	25.0			499	52.0	40.0 to 60.0			2.23	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-5

Location Code: WMWGREAPFB
Collected: 4/6/22 11:35
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06976

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/11/22 14:00	4/12/22 10:56		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/11/22 14:00	4/12/22 10:56		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	4/11/22 14:00	4/12/22 10:56		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	4/11/22 14:00	4/12/22 10:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/11/22 14:00	4/12/22 10:56		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:56		1	Not Detected	mg/L				
Silicon, Total	4/11/22 14:00	4/12/22 10:56		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	4/11/22 14:00	4/12/22 10:56		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	4/8/22 12:07	4/11/22 13:28		1.015	0.000287	mg/L	0.000203	0.001015	J	
* Cobalt, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	4/8/22 12:07	4/11/22 13:28		1.015	0.000170	mg/L	0.000152	0.000203	J	
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	4/8/22 12:07	4/11/22 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: ABB								
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:04		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: ELH								
* Nitrogen, Nitrate/Nitrite	4/11/22 15:58	4/11/22 15:58		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	4/12/22 10:28	4/13/22 13:15		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-5

Location Code: WMWGREAPFB
Collected: 4/6/22 11:35
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06976

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 18:36	4/11/22 18:36		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:26	4/13/22 09:26		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:18	4/14/22 10:18		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:40	4/12/22 10:40		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 4/6/22 11:35

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond Field Blank-5

Laboratory ID Number: BC06976

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 4/6/22 11:35

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond Field Blank-5

Laboratory ID Number: BC06976

Sample	Analysis	Units	MB	MB				Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD		Limit	Rec	Limit	Prec		
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0	
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0	

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 4/6/22 11:35

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond Field Blank-5

Laboratory ID Number: BC06976

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06984	Solids, Dissolved	mg/L	1.00	25.0			499	52.0	40.0 to 60.0			2.23	10.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 4/6/22 12:07
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06977

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 10:59		1.015	2.17	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:38		20.3	101	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:38		20.3	13.3	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 10:59		1.015	0.638	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 10:59		1.015	25.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 10:59		1	12.7	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 10:59		1.015	5.94	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 10:59		1.015	39.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:51		1.015	2.11	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:47		20.3	104	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:47		20.3	14.4	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:51		1.015	0.670	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:51		1.015	25.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:51		1	13.0	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:51		1.015	6.07	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:51		1.015	39.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 13:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 13:31		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/8/22 12:07	4/11/22 13:31		1.015	0.0780	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 13:31		1.015	0.103	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 13:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 13:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 13:31		1.015	0.000340	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 13:31		1.015	0.0147	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 13:31		1.015	0.0000865	mg/L	0.000068	0.000203	J
* Manganese, Total	4/8/22 12:07	4/11/22 14:53		5.075	3.32	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:31		1.015	0.000149	mg/L	0.000102	0.000203	J
* Potassium, Total	4/8/22 12:07	4/11/22 13:31		1.015	12.6	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 4/6/22 12:07
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06977

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 13:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/8/22 12:07	4/11/22 13:31		1.015	0.000353	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	0.0549	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	0.0988	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	0.0150	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:39		5.075	3.36	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	0.000171	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	13.0	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:24		1.015	0.000340	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 16:00	4/11/22 16:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/21/22 13:07	4/21/22 14:14		1	449	mg/L		0.1	HT
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/12/22 10:28	4/13/22 13:15		1	488	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	448	mg/L			
Carbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	0.61	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 18:51	4/11/22 18:51		1	2.05	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP

Collected: 4/6/22 12:07

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06977

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:27	4/13/22 09:27		1	12.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:19	4/14/22 10:19		1	0.266	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:41	4/12/22 10:41		2	45.3	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/22 12:04	4/6/22 12:04			746.84	uS/cm			FA
pH	4/6/22 12:04	4/6/22 12:04			6.42	SU			FA
Temperature	4/6/22 12:04	4/6/22 12:04			26.29	C			FA
Turbidity	4/6/22 12:04	4/6/22 12:04			4.33	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 12:07
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BC06977

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06980	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.203	0.204	0.102	0.0850 to 0.115	103	70.0 to 130	0.491	20.0
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0949	0.0954	0.0906	0.0850 to 0.115	94.9	70.0 to 130	0.525	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.108	0.108	0.0962	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.180	0.177	0.0938	0.0850 to 0.115	91.9	70.0 to 130	1.68	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.0979	0.101	0.0910	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06980	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.0966	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0991	0.100	0.0957	0.0850 to 0.115	98.9	70.0 to 130	0.904	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.121	0.122	0.0980	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 12:07
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BC06977

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06980	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06980	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.606	0.619	0.0993	0.0850 to 0.115	89.0	70.0 to 130	2.12	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.0983	0.0985	0.0981	0.0850 to 0.115	97.9	70.0 to 130	0.203	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	13.0	13.0	9.93	8.50 to 11.5	99.3	70.0 to 130	0.00	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.104	0.104	0.0983	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0
BC06980	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.101	0.104	0.0850 to 0.115	104	70.0 to 130	2.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 12:07

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BC06977

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 12:07

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BC06977

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Alkalinity, Total as CaCO3	mg/L					41.8	51.4	45.0 to 55.0			2.18	10.0
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06984	Solids, Dissolved	mg/L	1.00	25.0			499	52.0	40.0 to 60.0			2.23	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 4/6/22 15:10
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06978

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 11:02		1.015	1.60	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:40		20.3	96.1	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:40		20.3	12.7	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 11:02		1.015	0.312	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 11:02		1.015	15.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 11:02		1	16.8	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 11:02		1.015	7.83	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 12:40		20.3	49.2	mg/L	0.609	8.12	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:55		1.015	1.55	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 12:50		20.3	82.7	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:50		20.3	12.4	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:55		1.015	0.327	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:55		1.015	15.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:55		1	17.2	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:55		1.015	8.02	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 12:50		20.3	46.7	mg/L	0.609	8.12	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 13:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 13:35		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/8/22 12:07	4/11/22 13:35		1.015	0.0490	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 13:35		1.015	0.0769	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 13:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 13:35		1.015	0.000313	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 13:35		1.015	0.0183	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/8/22 12:07	4/11/22 14:56		5.075	3.57	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:35		1.015	0.000321	mg/L	0.000102	0.000203	
* Potassium, Total	4/8/22 12:07	4/11/22 13:35		1.015	6.15	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 4/6/22 15:10
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06978

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 13:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/8/22 12:07	4/11/22 13:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	0.0494	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	0.0742	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	0.000224	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	0.0187	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:43		5.075	3.58	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	0.000345	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	6.26	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 16:02	4/11/22 16:02		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/21/22 13:07	4/21/22 14:14		1	371	mg/L		0.1	HT
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/12/22 10:28	4/13/22 13:15		1	404	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	371	mg/L			
Carbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 19:14	4/11/22 19:14		1	2.32	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP

Collected: 4/6/22 15:10

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06978

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:37	4/13/22 09:37		2	24.7	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:20	4/14/22 10:20		1	0.162	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:42	4/12/22 10:42		1	16.3	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/22 15:06	4/6/22 15:06			636.34	uS/cm			FA
pH	4/6/22 15:06	4/6/22 15:06			6.29	SU			FA
Temperature	4/6/22 15:06	4/6/22 15:06			27.48	C			FA
Turbidity	4/6/22 15:06	4/6/22 15:06			2.48	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 15:10
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BC06978

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06980	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.203	0.204	0.102	0.0850 to 0.115	103	70.0 to 130	0.491	20.0
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0949	0.0954	0.0906	0.0850 to 0.115	94.9	70.0 to 130	0.525	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.108	0.108	0.0962	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.180	0.177	0.0938	0.0850 to 0.115	91.9	70.0 to 130	1.68	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.0979	0.101	0.0910	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06980	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.0966	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0991	0.100	0.0957	0.0850 to 0.115	98.9	70.0 to 130	0.904	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.121	0.122	0.0980	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 15:10
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BC06978

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06980	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06980	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.606	0.619	0.0993	0.0850 to 0.115	89.0	70.0 to 130	2.12	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.0983	0.0985	0.0981	0.0850 to 0.115	97.9	70.0 to 130	0.203	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	13.0	13.0	9.93	8.50 to 11.5	99.3	70.0 to 130	0.00	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.104	0.104	0.0983	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0
BC06980	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.101	0.104	0.0850 to 0.115	104	70.0 to 130	2.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 15:10

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BC06978

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 15:10

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BC06978

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Alkalinity, Total as CaCO3	mg/L					41.8	51.4	45.0 to 55.0			2.18	10.0
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06984	Solids, Dissolved	mg/L	1.00	25.0			499	52.0	40.0 to 60.0			2.23	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 4/6/22 15:30
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06979

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 11:05		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/11/22 14:00	4/12/22 11:05		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/11/22 14:00	4/12/22 11:05		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/11/22 14:00	4/12/22 11:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 11:05		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/11/22 14:00	4/12/22 11:05		1	Not Detected	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 11:05		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/11/22 14:00	4/12/22 11:05		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 13:38		1.015	0.000316	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/8/22 12:07	4/11/22 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: ABB						
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: ELH						
* Nitrogen, Nitrate/Nitrite	4/11/22 16:04	4/11/22 16:04		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	4/12/22 10:28	4/13/22 13:15		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 4/6/22 15:30
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06979

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 19:33	4/11/22 19:33		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:30	4/13/22 09:30		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:21	4/14/22 10:21		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:43	4/12/22 10:43		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 4/6/22 15:30

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06979

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 4/6/22 15:30

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06979

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 4/6/22 15:30

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06979

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06984	Solids, Dissolved	mg/L	1.00	25.0			499	52.0	40.0 to 60.0			2.23	10.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP
Collected: 4/5/22 16:47
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06980

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 11:07		1.015	0.104	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 11:07		1.015	17.8	mg/L	0.070035	0.406	
* Iron, Total	4/11/22 14:00	4/12/22 12:43		20.3	8.59	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 11:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 11:07		1.015	5.06	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 11:07		1	11.2	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 11:07		1.015	5.24	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 11:07		1.015	22.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 10:58		1.015	0.109	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 10:58		1.015	18.1	mg/L	0.070035	0.406	
* Iron, Dissolved	4/11/22 15:57	4/12/22 12:53		20.3	9.24	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 10:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 10:58		1.015	5.05	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 10:58		1	11.3	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 10:58		1.015	5.26	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 10:58		1.015	22.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 13:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 13:42		1.015	0.165	mg/L	0.006090	0.01015	
* Arsenic, Total	4/8/22 12:07	4/11/22 13:42		1.015	0.00687	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 13:42		1.015	0.0880	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 13:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 13:42		1.015	0.000416	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 13:42		1.015	0.0191	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 13:42		1.015	0.000314	mg/L	0.000068	0.000203	
* Manganese, Total	4/8/22 12:07	4/11/22 13:42		1.015	0.493	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/8/22 12:07	4/11/22 13:42		1.015	0.000396	mg/L	0.000102	0.000203	
* Potassium, Total	4/8/22 12:07	4/11/22 13:42		1.015	3.10	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP
Collected: 4/5/22 16:47
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06980

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 13:42		1.015	0.000590	mg/L	0.000508	0.001015	J
* Thallium, Total	4/8/22 12:07	4/11/22 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	0.0996	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	0.00674	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	0.0881	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	0.000249	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	0.0193	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	0.000220	mg/L	0.000068	0.000203	
* Manganese, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	0.517	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	0.000364	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	3.07	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	0.000538	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 16:05	4/11/22 16:05		1	0.445	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/18/22 12:35	4/18/22 15:45		1	55.1	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	156	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	55.1	mg/L			
Carbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/11/22 19:50	4/11/22 19:50		1	5.11	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP

Collected: 4/5/22 16:47

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06980

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 09:31	4/13/22 09:31		1	20.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:23	4/14/22 10:23		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 10:44	4/12/22 10:44		4	52.0	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/5/22 16:44	4/5/22 16:44			251.21	uS/cm			FA
pH	4/5/22 16:44	4/5/22 16:44			5.41	SU			FA
Temperature	4/5/22 16:44	4/5/22 16:44			16.57	C			FA
Turbidity	4/5/22 16:44	4/5/22 16:44			4.92	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/5/22 16:47
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BC06980

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC06980	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.203	0.204	0.102	0.0850 to 0.115	103	70.0 to 130	0.491	20.0
BC06980	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.289	0.288	0.101	0.0850 to 0.115	124	70.0 to 130	0.347	20.0
BC06980	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0949	0.0954	0.0906	0.0850 to 0.115	94.9	70.0 to 130	0.525	20.0
BC06980	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0960	0.0977	0.0880	0.0850 to 0.115	96.0	70.0 to 130	1.76	20.0
BC06980	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.108	0.108	0.0962	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.106	0.105	0.0995	0.0850 to 0.115	99.1	70.0 to 130	0.948	20.0
BC06980	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.180	0.177	0.0938	0.0850 to 0.115	91.9	70.0 to 130	1.68	20.0
BC06980	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.183	0.183	0.0946	0.0850 to 0.115	95.0	70.0 to 130	0.00	20.0
BC06980	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.0979	0.101	0.0910	0.0850 to 0.115	97.9	70.0 to 130	3.12	20.0
BC06980	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0935	0.0949	0.0954	0.0850 to 0.115	93.5	70.0 to 130	1.49	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06980	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.0966	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06980	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0986	0.0995	0.0997	0.0850 to 0.115	98.6	70.0 to 130	0.909	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06980	Chloride	mg/L	-0.094	1.00	10.0	28.6	28.8	10.0	9.00 to 11.0	86.0	80.0 to 120	0.697	20.0
BC06980	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0991	0.100	0.0957	0.0850 to 0.115	98.9	70.0 to 130	0.904	20.0
BC06980	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.101	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06980	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.121	0.122	0.0980	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BC06980	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.123	0.121	0.105	0.0850 to 0.115	104	70.0 to 130	1.64	20.0
BC06980	Fluoride	mg/L	-0.0509	0.125	2.50	2.61	2.74	2.62	2.25 to 2.75	104	80.0 to 120	4.86	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/5/22 16:47
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BC06980

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06980	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06980	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06980	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.606	0.619	0.0993	0.0850 to 0.115	89.0	70.0 to 130	2.12	20.0
BC06980	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.592	0.587	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.848	20.0
BC06980	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00398	0.00399	0.00397	0.00340 to 0.00460	99.5	70.0 to 130	0.251	20.0
BC06980	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.0983	0.0985	0.0981	0.0850 to 0.115	97.9	70.0 to 130	0.203	20.0
BC06980	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0937	0.0957	0.0983	0.0850 to 0.115	93.3	70.0 to 130	2.11	20.0
BC06980	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	13.0	13.0	9.93	8.50 to 11.5	99.3	70.0 to 130	0.00	20.0
BC06980	Potassium, Total	mg/L	0.0532	0.367	10.0	12.9	12.9	9.93	8.50 to 11.5	98.0	70.0 to 130	0.00	20.0
BC06980	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.104	0.104	0.0983	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC06980	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.0985	0.0981	0.101	0.0850 to 0.115	97.9	70.0 to 130	0.407	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0
BC06980	Sulfate	mg/L	0.0895	2.0	80.0	132	134	19.7	18.0 to 22.0	100	80.0 to 120	1.50	20.0
BC06980	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.101	0.104	0.0850 to 0.115	104	70.0 to 130	2.93	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 16:47

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BC06980

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06980	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06980	Total Organic Carbon	mg/L	0.280	1.00	10.0	15.3	15.4	25.3		102	80.0 to 120	0.651	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 16:47

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BC06980

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06981	Alkalinity, Total as CaCO3	mg/L					265	51.2	45.0 to 55.0			7.27	10.0
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06983	Solids, Dissolved	mg/L	0.0000	25.0			430	51.0	40.0 to 60.0			4.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP
Collected: 4/5/22 17:50
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06981

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 11:10		1.015	0.462	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:46		20.3	95.6	mg/L	1.4007	8.12	RA
* Iron, Total	4/11/22 14:00	4/12/22 12:46		20.3	38.9	mg/L	0.1624	0.812	RA
* Lithium, Total	4/11/22 14:00	4/12/22 11:10		1.015	0.0584	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 11:10		1.015	19.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 11:10		1	15.2	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 11:10		1.015	7.10	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 11:10		1.015	20.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 11:01		1.015	0.453	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 13:27		20.3	79.0	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 13:27		20.3	37.2	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 11:01		1.015	0.0634	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 11:01		1.015	19.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 11:01		1	15.3	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 11:01		1.015	7.17	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 11:01		1.015	21.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 14:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 14:03		1.015	0.0410	mg/L	0.006090	0.01015	
* Arsenic, Total	4/8/22 12:07	4/11/22 14:03		1.015	0.401	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 14:03		1.015	0.180	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 14:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 14:03		1.015	0.000304	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 14:03		1.015	0.0265	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/8/22 12:07	4/11/22 15:00		5.075	1.86	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/8/22 12:07	4/11/22 14:03		1.015	0.00291	mg/L	0.000102	0.000203	
* Potassium, Total	4/8/22 12:07	4/11/22 14:03		1.015	5.86	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP
Collected: 4/5/22 17:50
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06981

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 14:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/8/22 12:07	4/11/22 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	0.414	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	0.185	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	0.0271	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:46		5.075	1.87	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	0.00314	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	5.94	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 16:07	4/11/22 16:07		1	0.217	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/18/22 12:35	4/18/22 15:45		1	285	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	419	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	285	mg/L		1	
Carbonate Alkalinity, (calc.)	4/18/22 12:35	4/18/22 15:45		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 08:55	4/12/22 08:55		1	2.09	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP

Collected: 4/5/22 17:50

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06981

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:18	4/13/22 10:18		1	8.13	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:36	4/14/22 10:36		1	0.246	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 11:15	4/12/22 11:15		5	114	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/5/22 17:47	4/5/22 17:47			693.20	uS/cm			FA
pH	4/5/22 17:47	4/5/22 17:47			6.59	SU			FA
Temperature	4/5/22 17:47	4/5/22 17:47			16.80	C			FA
Turbidity	4/5/22 17:47	4/5/22 17:47			4.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/5/22 17:50
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BC06981

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06985	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.106	0.109	0.102	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC06985	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0935	0.0955	0.0906	0.0850 to 0.115	93.5	70.0 to 130	2.12	20.0
BC06985	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0896	0.0925	0.0880	0.0850 to 0.115	89.6	70.0 to 130	3.19	20.0
BC06985	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.101	0.104	0.0962	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BC06985	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.100	0.0996	0.0995	0.0850 to 0.115	99.9	70.0 to 130	0.401	20.0
BC06985	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.134	0.133	0.0938	0.0850 to 0.115	96.9	70.0 to 130	0.749	20.0
BC06985	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.131	0.133	0.0946	0.0850 to 0.115	92.5	70.0 to 130	1.52	20.0
BC06985	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.101	0.101	0.0910	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06985	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0956	0.0945	0.0954	0.0850 to 0.115	95.6	70.0 to 130	1.16	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06981	Boron, Total	mg/L	-0.000287	0.0650	1.00	1.51	1.52	1.04	0.850 to 1.15	105	70.0 to 130	0.660	20.0
BC06985	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.0966	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0987	0.0967	0.0997	0.0850 to 0.115	98.7	70.0 to 130	2.05	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06981	Calcium, Total	mg/L	0.00368	0.152	5.00	96.8	95.1	4.96	4.25 to 5.75	24.0	70.0 to 130	1.77	20.0
BC06985	Chloride	mg/L	-0.108	1.00	10.0	11.5	11.6	9.68	9.00 to 11.0	100	80.0 to 120	0.866	20.0
BC06985	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0979	0.100	0.0957	0.0850 to 0.115	97.5	70.0 to 130	2.12	20.0
BC06985	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.0975	0.0982	0.100	0.0850 to 0.115	97.0	70.0 to 130	0.715	20.0
BC06985	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.100	0.104	0.0980	0.0850 to 0.115	99.9	70.0 to 130	3.92	20.0
BC06985	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Fluoride	mg/L	-0.0171	0.125	2.50	2.63	2.72	2.60	2.25 to 2.75	105	80.0 to 120	3.36	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/5/22 17:50
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BC06981

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06981	Iron, Total	mg/L	0.000206	0.0176	0.2	40.0	39.7	0.202	0.170 to 0.230	550	70.0 to 130	0.753	20.0
BC06985	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC06985	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.107	0.0997	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06981	Lithium, Total	mg/L	0.000049	0.0154	0.200	0.266	0.263	0.202	0.170 to 0.230	104	70.0 to 130	1.13	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06981	Magnesium, Total	mg/L	-0.0119	0.0462	5.00	24.6	24.4	5.26	4.25 to 5.75	102	70.0 to 130	0.816	20.0
BC06985	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.103	0.106	0.0993	0.0850 to 0.115	101	70.0 to 130	2.87	20.0
BC06985	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.0997	0.101	0.101	0.0850 to 0.115	97.7	70.0 to 130	1.30	20.0
BC06985	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00396	0.00396	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	0.00	20.0
BC06985	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.101	0.103	0.0981	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06985	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0953	0.0959	0.0983	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BC06985	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	11.3	11.6	9.93	8.50 to 11.5	98.8	70.0 to 130	2.62	20.0
BC06985	Potassium, Total	mg/L	0.0532	0.367	10.0	11.3	11.2	9.93	8.50 to 11.5	98.4	70.0 to 130	0.889	20.0
BC06985	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.108	0.111	0.0983	0.0850 to 0.115	104	70.0 to 130	2.74	20.0
BC06985	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	96.4	70.0 to 130	0.995	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06981	Silicon, Total	mg/L	-0.000061	0.0440	1.00	7.99	8.05	1.02	0.850 to 1.15	89.0	70.0 to 130	0.748	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06981	Sodium, Total	mg/L	0.00116	0.0660	5.00	25.4	25.3	5.20	4.25 to 5.75	108	70.0 to 130	0.394	20.0
BC06985	Sulfate	mg/L	-0.229	2.0	20.0	51.6	52.8	19.4	18.0 to 22.0	96.5	80.0 to 120	2.30	20.0
BC06985	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 17:50

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BC06981

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06985	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.109	0.103	0.0850 to 0.115	102	70.0 to 130	6.64	20.0
BC06985	Total Organic Carbon	mg/L	0.250	1.00	10.0	8.81	9.99	21.6		88.1	80.0 to 120	12.6	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 17:50

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BC06981

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06981	Alkalinity, Total as CaCO3	mg/L					265	51.2	45.0 to 55.0			7.27	10.0
BC06981	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.03	0.224	1.88	1.80 to 2.20	90.6	90.0 to 110	3.17	15.0
BC06983	Solids, Dissolved	mg/L	0.0000	25.0			430	51.0	40.0 to 60.0			4.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP
Collected: 4/6/22 08:10
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06982

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 11:31		1.015	0.329	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:55		20.3	78.5	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:55		20.3	65.8	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 11:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 11:31		1.015	11.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 11:31		1	14.0	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 11:31		1.015	6.54	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 11:31		1.015	22.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 11:05		1.015	0.322	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 13:31		20.3	74.4	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 13:31		20.3	64.7	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 11:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 11:05		1.015	11.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 11:05		1	13.9	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 11:05		1.015	6.50	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 11:05		1.015	23.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 14:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 14:07		1.015	0.0512	mg/L	0.006090	0.01015	
* Arsenic, Total	4/8/22 12:07	4/11/22 14:07		1.015	0.229	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 14:07		1.015	0.382	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 14:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 14:07		1.015	0.000467	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 14:07		1.015	0.00706	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 14:07		1.015	0.0000820	mg/L	0.000068	0.000203	J
* Manganese, Total	4/8/22 12:07	4/11/22 15:04		5.075	2.65	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/8/22 12:07	4/11/22 14:07		1.015	0.000823	mg/L	0.000102	0.000203	
* Potassium, Total	4/8/22 12:07	4/11/22 14:07		1.015	4.57	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP

Collected: 4/6/22 08:10

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06982

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 14:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/8/22 12:07	4/11/22 14:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	0.228	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	0.368	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	0.000276	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	0.00699	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:50		5.075	2.53	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	0.000856	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	4.41	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/8/22 14:41	4/8/22 17:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 16:16	4/11/22 16:16		1	0.320	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/21/22 13:07	4/21/22 14:14		1	225	mg/L		0.1	HT
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	428	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	225	mg/L			
Carbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 09:11	4/12/22 09:11		1	5.42	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP

Collected: 4/6/22 08:10

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06982

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:19	4/13/22 10:19		1	8.07	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:37	4/14/22 10:37		1	0.101	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 11:16	4/12/22 11:16		8	117	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/22 08:07	4/6/22 08:07			715.12	uS/cm			FA
pH	4/6/22 08:07	4/6/22 08:07			6.23	SU			FA
Temperature	4/6/22 08:07	4/6/22 08:07			16.97	C			FA
Turbidity	4/6/22 08:07	4/6/22 08:07			4.15	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 08:10
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BC06982

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06985	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.106	0.109	0.102	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC06985	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0935	0.0955	0.0906	0.0850 to 0.115	93.5	70.0 to 130	2.12	20.0
BC06985	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0896	0.0925	0.0880	0.0850 to 0.115	89.6	70.0 to 130	3.19	20.0
BC06985	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.101	0.104	0.0962	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BC06985	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.100	0.0996	0.0995	0.0850 to 0.115	99.9	70.0 to 130	0.401	20.0
BC06985	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.134	0.133	0.0938	0.0850 to 0.115	96.9	70.0 to 130	0.749	20.0
BC06985	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.131	0.133	0.0946	0.0850 to 0.115	92.5	70.0 to 130	1.52	20.0
BC06985	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.101	0.101	0.0910	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06985	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0956	0.0945	0.0954	0.0850 to 0.115	95.6	70.0 to 130	1.16	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06985	Boron, Total	mg/L	-0.000114	0.0650	1.00	1.06	1.06	1.01	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC06985	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.0966	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0987	0.0967	0.0997	0.0850 to 0.115	98.7	70.0 to 130	2.05	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06985	Calcium, Total	mg/L	0.00612	0.152	5.00	27.5	27.3	4.84	4.25 to 5.75	100	70.0 to 130	0.730	20.0
BC06985	Chloride	mg/L	-0.108	1.00	10.0	11.5	11.6	9.68	9.00 to 11.0	100	80.0 to 120	0.866	20.0
BC06985	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0979	0.100	0.0957	0.0850 to 0.115	97.5	70.0 to 130	2.12	20.0
BC06985	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.0975	0.0982	0.100	0.0850 to 0.115	97.0	70.0 to 130	0.715	20.0
BC06985	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.100	0.104	0.0980	0.0850 to 0.115	99.9	70.0 to 130	3.92	20.0
BC06985	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Fluoride	mg/L	-0.0171	0.125	2.50	2.63	2.72	2.60	2.25 to 2.75	105	80.0 to 120	3.36	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 08:10
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BC06982

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06985	Iron, Total	mg/L	0.000379	0.0176	0.2	0.200	0.199	0.198	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BC06985	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC06985	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.107	0.0997	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06985	Lithium, Total	mg/L	-0.00015	0.0154	0.200	0.201	0.204	0.204	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06985	Magnesium, Total	mg/L	-0.00594	0.0462	5.00	8.09	8.15	5.21	4.25 to 5.75	103	70.0 to 130	0.739	20.0
BC06985	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.103	0.106	0.0993	0.0850 to 0.115	101	70.0 to 130	2.87	20.0
BC06985	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.0997	0.101	0.101	0.0850 to 0.115	97.7	70.0 to 130	1.30	20.0
BC06985	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00396	0.00396	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	0.00	20.0
BC06985	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.101	0.103	0.0981	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06985	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0953	0.0959	0.0983	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BC06985	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	11.3	11.6	9.93	8.50 to 11.5	98.8	70.0 to 130	2.62	20.0
BC06985	Potassium, Total	mg/L	0.0532	0.367	10.0	11.3	11.2	9.93	8.50 to 11.5	98.4	70.0 to 130	0.889	20.0
BC06985	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.108	0.111	0.0983	0.0850 to 0.115	104	70.0 to 130	2.74	20.0
BC06985	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	96.4	70.0 to 130	0.995	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06985	Silicon, Total	mg/L	-0.000359	0.0440	1.00	4.30	4.28	1.00	0.850 to 1.15	100	70.0 to 130	0.466	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06985	Sodium, Total	mg/L	0.00582	0.0660	5.00	7.26	7.35	5.26	4.25 to 5.75	104	70.0 to 130	1.23	20.0
BC06985	Sulfate	mg/L	-0.229	2.0	20.0	51.6	52.8	19.4	18.0 to 22.0	96.5	80.0 to 120	2.30	20.0
BC06985	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 08:10

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BC06982

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC06985	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.109	0.103	0.0850 to 0.115		102	70.0 to 130		6.64	20.0
BC06985	Total Organic Carbon	mg/L	0.250	1.00	10.0	8.81	9.99	21.6			88.1	80.0 to 120		12.6	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 08:10

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BC06982

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Alkalinity, Total as CaCO3	mg/L					41.8	51.4	45.0 to 55.0			2.18	10.0
BC06985	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.56	0.890	1.88	1.80 to 2.20	84.1	90.0 to 110	1.36	15.0
BC06983	Solids, Dissolved	mg/L	0.0000	25.0			430	51.0	40.0 to 60.0			4.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 4/6/22 09:27
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06983

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 11:34		1.015	2.21	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 12:58		20.3	119	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 12:58		20.3	27.4	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 11:34		1.015	0.336	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 11:34		1.015	22.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 11:34		1	10.2	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 11:34		1.015	4.78	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 11:34		1.015	30.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 11:08		1.015	2.14	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 13:34		20.3	103	mg/L	1.4007	8.12	
* Iron, Dissolved	4/11/22 15:57	4/12/22 13:34		20.3	26.8	mg/L	0.1624	0.812	
* Lithium, Dissolved	4/11/22 15:57	4/12/22 11:08		1.015	0.355	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 11:08		1.015	23.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 11:08		1	10.4	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 11:08		1.015	4.86	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 11:08		1.015	30.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 14:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 14:10		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/8/22 12:07	4/11/22 14:10		1.015	0.0524	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 14:10		1.015	0.178	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 14:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 14:10		1.015	0.000286	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 14:10		1.015	0.0173	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 14:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/8/22 12:07	4/11/22 15:07		5.075	4.23	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/8/22 12:07	4/11/22 14:10		1.015	0.00174	mg/L	0.000102	0.000203	
* Potassium, Total	4/8/22 12:07	4/11/22 14:10		1.015	11.2	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 4/6/22 09:27
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06983

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 14:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/8/22 12:07	4/11/22 14:10		1.015	0.000594	mg/L	0.000068	0.000203	
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	0.0541	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	0.173	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	0.0179	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:54		5.075	4.13	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	0.00175	mg/L	0.000102	0.000203	
* Potassium, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	11.8	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/8/22 14:41	4/8/22 18:00		1.015	0.000580	mg/L	0.000068	0.000203	
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 16:16	4/11/22 16:16		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/21/22 13:07	4/21/22 14:14		1	369	mg/L		0.1	HT
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	448	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	369	mg/L			
Carbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 09:30	4/12/22 09:30		1	1.78	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP

Collected: 4/6/22 09:27

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06983

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:20	4/13/22 10:20		1	8.43	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:38	4/14/22 10:38		1	0.390	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 11:17	4/12/22 11:17		1	34.9	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/22 09:24	4/6/22 09:24			805.88	uS/cm			FA
pH	4/6/22 09:24	4/6/22 09:24			6.31	SU			FA
Temperature	4/6/22 09:24	4/6/22 09:24			19.59	C			FA
Turbidity	4/6/22 09:24	4/6/22 09:24			2.32	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 09:27
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BC06983

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06985	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.106	0.109	0.102	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC06985	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0935	0.0955	0.0906	0.0850 to 0.115	93.5	70.0 to 130	2.12	20.0
BC06985	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0896	0.0925	0.0880	0.0850 to 0.115	89.6	70.0 to 130	3.19	20.0
BC06985	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.101	0.104	0.0962	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BC06985	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.100	0.0996	0.0995	0.0850 to 0.115	99.9	70.0 to 130	0.401	20.0
BC06985	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.134	0.133	0.0938	0.0850 to 0.115	96.9	70.0 to 130	0.749	20.0
BC06985	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.131	0.133	0.0946	0.0850 to 0.115	92.5	70.0 to 130	1.52	20.0
BC06985	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.101	0.101	0.0910	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06985	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0956	0.0945	0.0954	0.0850 to 0.115	95.6	70.0 to 130	1.16	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06985	Boron, Total	mg/L	-0.000114	0.0650	1.00	1.06	1.06	1.01	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC06985	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.0966	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0987	0.0967	0.0997	0.0850 to 0.115	98.7	70.0 to 130	2.05	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06985	Calcium, Total	mg/L	0.00612	0.152	5.00	27.5	27.3	4.84	4.25 to 5.75	100	70.0 to 130	0.730	20.0
BC06985	Chloride	mg/L	-0.108	1.00	10.0	11.5	11.6	9.68	9.00 to 11.0	100	80.0 to 120	0.866	20.0
BC06985	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0979	0.100	0.0957	0.0850 to 0.115	97.5	70.0 to 130	2.12	20.0
BC06985	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.0975	0.0982	0.100	0.0850 to 0.115	97.0	70.0 to 130	0.715	20.0
BC06985	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.100	0.104	0.0980	0.0850 to 0.115	99.9	70.0 to 130	3.92	20.0
BC06985	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Fluoride	mg/L	-0.0171	0.125	2.50	2.63	2.72	2.60	2.25 to 2.75	105	80.0 to 120	3.36	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 09:27

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BC06983

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06985	Iron, Total	mg/L	0.000379	0.0176	0.2	0.200	0.199	0.198	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BC06985	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC06985	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.107	0.0997	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06985	Lithium, Total	mg/L	-0.00015	0.0154	0.200	0.201	0.204	0.204	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06985	Magnesium, Total	mg/L	-0.00594	0.0462	5.00	8.09	8.15	5.21	4.25 to 5.75	103	70.0 to 130	0.739	20.0
BC06985	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.103	0.106	0.0993	0.0850 to 0.115	101	70.0 to 130	2.87	20.0
BC06985	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.0997	0.101	0.101	0.0850 to 0.115	97.7	70.0 to 130	1.30	20.0
BC06985	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00396	0.00396	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	0.00	20.0
BC06985	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.101	0.103	0.0981	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06985	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0953	0.0959	0.0983	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BC06985	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	11.3	11.6	9.93	8.50 to 11.5	98.8	70.0 to 130	2.62	20.0
BC06985	Potassium, Total	mg/L	0.0532	0.367	10.0	11.3	11.2	9.93	8.50 to 11.5	98.4	70.0 to 130	0.889	20.0
BC06985	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.108	0.111	0.0983	0.0850 to 0.115	104	70.0 to 130	2.74	20.0
BC06985	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	96.4	70.0 to 130	0.995	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06985	Silicon, Total	mg/L	-0.000359	0.0440	1.00	4.30	4.28	1.00	0.850 to 1.15	100	70.0 to 130	0.466	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06985	Sodium, Total	mg/L	0.00582	0.0660	5.00	7.26	7.35	5.26	4.25 to 5.75	104	70.0 to 130	1.23	20.0
BC06985	Sulfate	mg/L	-0.229	2.0	20.0	51.6	52.8	19.4	18.0 to 22.0	96.5	80.0 to 120	2.30	20.0
BC06985	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 09:27

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BC06983

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06985	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.109	0.103	0.0850 to 0.115	102	70.0 to 130	6.64	20.0
BC06985	Total Organic Carbon	mg/L	0.250	1.00	10.0	8.81	9.99	21.6		88.1	80.0 to 120	12.6	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 09:27

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BC06983

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Alkalinity, Total as CaCO3	mg/L					41.8	51.4	45.0 to 55.0			2.18	10.0
BC06985	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.56	0.890	1.88	1.80 to 2.20	84.1	90.0 to 110	1.36	15.0
BC06983	Solids, Dissolved	mg/L	0.0000	25.0			430	51.0	40.0 to 60.0			4.10	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP
Collected: 4/6/22 11:58
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06984

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 11:37		1.015	0.607	mg/L	0.030000	0.1015	
* Calcium, Total	4/11/22 14:00	4/12/22 13:01		20.3	110	mg/L	1.4007	8.12	
* Iron, Total	4/11/22 14:00	4/12/22 13:01		20.3	9.97	mg/L	0.1624	0.812	
* Lithium, Total	4/11/22 14:00	4/12/22 11:37		1.015	0.0809	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/11/22 14:00	4/12/22 11:37		1.015	14.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 11:37		1	9.03	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 11:37		1.015	4.22	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 11:37		1.015	30.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 11:12		1.015	0.598	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/11/22 15:57	4/12/22 13:37		20.3	98.6	mg/L	1.4007	8.12	RA
* Iron, Dissolved	4/11/22 15:57	4/12/22 13:37		20.3	8.49	mg/L	0.1624	0.812	RA
* Lithium, Dissolved	4/11/22 15:57	4/12/22 11:12		1.015	0.0897	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 11:12		1.015	13.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 11:12		1	9.01	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 11:12		1.015	4.21	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 11:12		1.015	30.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 14:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 14:14		1.015	0.0471	mg/L	0.006090	0.01015	
* Arsenic, Total	4/8/22 12:07	4/11/22 14:14		1.015	0.00197	mg/L	0.000081	0.000203	
* Barium, Total	4/8/22 12:07	4/11/22 14:14		1.015	0.145	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 14:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 14:14		1.015	0.000525	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 14:14		1.015	0.0185	mg/L	0.000068	0.000203	
* Lead, Total	4/8/22 12:07	4/11/22 14:14		1.015	0.0000751	mg/L	0.000068	0.000203	J
* Manganese, Total	4/8/22 12:07	4/11/22 15:11		5.075	4.07	mg/L	0.000761	0.001015	
* Molybdenum, Total	4/8/22 12:07	4/11/22 14:14		1.015	0.000131	mg/L	0.000102	0.000203	J
* Potassium, Total	4/8/22 12:07	4/11/22 14:14		1.015	6.27	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP
Collected: 4/6/22 11:58
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06984

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 14:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	4/8/22 12:07	4/11/22 14:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	0.00165	mg/L	0.000081	0.000203	
* Barium, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	0.134	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	0.000231	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	0.0181	mg/L	0.000068	0.000203	
* Lead, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/11/22 15:57		5.075	3.93	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	0.000103	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	6.18	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	4/8/22 14:41	4/8/22 18:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 16:17	4/11/22 16:17		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/21/22 13:07	4/21/22 14:14		1	148	mg/L		0.1	HT
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/12/22 10:28	4/13/22 13:15		1	488	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	148	mg/L			
Carbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 09:48	4/12/22 09:48		1	1.62	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP

Collected: 4/6/22 11:58

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06984

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:22	4/13/22 10:22		1	13.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:40	4/14/22 10:40		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 11:18	4/12/22 11:18		16	236	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/22 11:55	4/6/22 11:55			723.95	uS/cm			FA
pH	4/6/22 11:55	4/6/22 11:55			6.16	SU			FA
Temperature	4/6/22 11:55	4/6/22 11:55			18.60	C			FA
Turbidity	4/6/22 11:55	4/6/22 11:55			8.36	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 11:58
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BC06984

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06985	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.106	0.109	0.102	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC06985	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0935	0.0955	0.0906	0.0850 to 0.115	93.5	70.0 to 130	2.12	20.0
BC06985	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0896	0.0925	0.0880	0.0850 to 0.115	89.6	70.0 to 130	3.19	20.0
BC06985	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.101	0.104	0.0962	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BC06985	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.100	0.0996	0.0995	0.0850 to 0.115	99.9	70.0 to 130	0.401	20.0
BC06985	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.134	0.133	0.0938	0.0850 to 0.115	96.9	70.0 to 130	0.749	20.0
BC06985	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.131	0.133	0.0946	0.0850 to 0.115	92.5	70.0 to 130	1.52	20.0
BC06985	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.101	0.101	0.0910	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06985	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0956	0.0945	0.0954	0.0850 to 0.115	95.6	70.0 to 130	1.16	20.0
BC06984	Boron, Dissolved	mg/L	0.00121	0.0650	1.00	1.64	1.61	1.03	0.850 to 1.15	104	70.0 to 130	1.85	20.0
BC06985	Boron, Total	mg/L	-0.000114	0.0650	1.00	1.06	1.06	1.01	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC06985	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.0966	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0987	0.0967	0.0997	0.0850 to 0.115	98.7	70.0 to 130	2.05	20.0
BC06984	Calcium, Dissolved	mg/L	-0.000892	0.152	5.00	97.5	108	5.16	4.25 to 5.75	-22.0	70.0 to 130	10.2	20.0
BC06985	Calcium, Total	mg/L	0.00612	0.152	5.00	27.5	27.3	4.84	4.25 to 5.75	100	70.0 to 130	0.730	20.0
BC06985	Chloride	mg/L	-0.108	1.00	10.0	11.5	11.6	9.68	9.00 to 11.0	100	80.0 to 120	0.866	20.0
BC06985	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0979	0.100	0.0957	0.0850 to 0.115	97.5	70.0 to 130	2.12	20.0
BC06985	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.0975	0.0982	0.100	0.0850 to 0.115	97.0	70.0 to 130	0.715	20.0
BC06985	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.100	0.104	0.0980	0.0850 to 0.115	99.9	70.0 to 130	3.92	20.0
BC06985	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Fluoride	mg/L	-0.0171	0.125	2.50	2.63	2.72	2.60	2.25 to 2.75	105	80.0 to 120	3.36	20.0
BC06984	Iron, Dissolved	mg/L	0.000288	0.0176	0.2	8.19	9.04	0.203	0.170 to 0.230	-150	70.0 to 130	9.87	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/6/22 11:58
Customer ID:
Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BC06984

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06985	Iron, Total	mg/L	0.000379	0.0176	0.2	0.200	0.199	0.198	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BC06985	Lead, Dissolved	mg/L	0.0000082	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC06985	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.107	0.0997	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BC06984	Lithium, Dissolved	mg/L	7.250E-05	0.0154	0.200	0.312	0.303	0.200	0.170 to 0.230	111	70.0 to 130	2.93	20.0
BC06985	Lithium, Total	mg/L	-0.00015	0.0154	0.200	0.201	0.204	0.204	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC06984	Magnesium, Dissolved	mg/L	-0.000801	0.0462	5.00	19.5	19.2	5.32	4.25 to 5.75	112	70.0 to 130	1.55	20.0
BC06985	Magnesium, Total	mg/L	-0.00594	0.0462	5.00	8.09	8.15	5.21	4.25 to 5.75	103	70.0 to 130	0.739	20.0
BC06985	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.103	0.106	0.0993	0.0850 to 0.115	101	70.0 to 130	2.87	20.0
BC06985	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.0997	0.101	0.101	0.0850 to 0.115	97.7	70.0 to 130	1.30	20.0
BC06985	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00396	0.00396	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	0.00	20.0
BC06985	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.101	0.103	0.0981	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06985	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0953	0.0959	0.0983	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BC06985	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	11.3	11.6	9.93	8.50 to 11.5	98.8	70.0 to 130	2.62	20.0
BC06985	Potassium, Total	mg/L	0.0532	0.367	10.0	11.3	11.2	9.93	8.50 to 11.5	98.4	70.0 to 130	0.889	20.0
BC06985	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.108	0.111	0.0983	0.0850 to 0.115	104	70.0 to 130	2.74	20.0
BC06985	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	96.4	70.0 to 130	0.995	20.0
BC06984	Silicon, Dissolved	mg/L	-0.000373	0.0440	1.00	5.30	5.23	1.03	0.850 to 1.15	109	70.0 to 130	1.33	20.0
BC06985	Silicon, Total	mg/L	-0.000359	0.0440	1.00	4.30	4.28	1.00	0.850 to 1.15	100	70.0 to 130	0.466	20.0
BC06984	Sodium, Dissolved	mg/L	-0.000457	0.0660	5.00	36.0	35.6	5.15	4.25 to 5.75	120	70.0 to 130	1.12	20.0
BC06985	Sodium, Total	mg/L	0.00582	0.0660	5.00	7.26	7.35	5.26	4.25 to 5.75	104	70.0 to 130	1.23	20.0
BC06985	Sulfate	mg/L	-0.229	2.0	20.0	51.6	52.8	19.4	18.0 to 22.0	96.5	80.0 to 120	2.30	20.0
BC06985	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 11:58

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BC06984

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06985	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.109	0.103	0.0850 to 0.115	102	70.0 to 130	6.64	20.0
BC06985	Total Organic Carbon	mg/L	0.250	1.00	10.0	8.81	9.99	21.6		88.1	80.0 to 120	12.6	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 11:58

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BC06984

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Alkalinity, Total as CaCO3	mg/L					41.8	51.4	45.0 to 55.0			2.18	10.0
BC06985	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.56	0.890	1.88	1.80 to 2.20	84.1	90.0 to 110	1.36	15.0
BC06984	Solids, Dissolved	mg/L	1.00	25.0			499	52.0	40.0 to 60.0			2.23	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP
Collected: 4/6/22 15:19
Customer ID:
Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06985

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/11/22 14:00	4/12/22 11:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/11/22 14:00	4/12/22 11:39		1.015	22.5	mg/L	0.070035	0.406	
* Iron, Total	4/11/22 14:00	4/12/22 11:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/11/22 14:00	4/12/22 11:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/11/22 14:00	4/12/22 11:39		1.015	2.95	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/11/22 14:00	4/12/22 11:39		1	7.06	mg/L			
Silicon, Total	4/11/22 14:00	4/12/22 11:39		1.015	3.30	mg/L	0.02030	0.25375	
* Sodium, Total	4/11/22 14:00	4/12/22 11:39		1.015	2.05	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/11/22 15:57	4/12/22 11:35		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/11/22 15:57	4/12/22 11:35		1.015	23.7	mg/L	0.070035	0.406	
* Iron, Dissolved	4/11/22 15:57	4/12/22 11:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/11/22 15:57	4/12/22 11:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/11/22 15:57	4/12/22 11:35		1.015	2.93	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/11/22 15:57	4/12/22 11:35		1	7.15	mg/L			
Silicon, Dissolved	4/11/22 15:57	4/12/22 11:35		1.015	3.34	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/11/22 15:57	4/12/22 11:35		1.015	2.00	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	4/8/22 12:07	4/11/22 14:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	4/8/22 12:07	4/11/22 14:17		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	4/8/22 12:07	4/11/22 14:17		1.015	0.000129	mg/L	0.000081	0.000203	J
* Barium, Total	4/8/22 12:07	4/11/22 14:17		1.015	0.0385	mg/L	0.000102	0.000203	
* Beryllium, Total	4/8/22 12:07	4/11/22 14:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	4/8/22 12:07	4/11/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	4/8/22 12:07	4/11/22 14:17		1.015	0.000514	mg/L	0.000203	0.001015	J
* Cobalt, Total	4/8/22 12:07	4/11/22 14:17		1.015	0.0000755	mg/L	0.000068	0.000203	J
* Lead, Total	4/8/22 12:07	4/11/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	4/8/22 12:07	4/11/22 14:17		1.015	0.00197	mg/L	0.000152	0.000203	
* Molybdenum, Total	4/8/22 12:07	4/11/22 14:17		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	4/8/22 12:07	4/11/22 14:17		1.015	1.46	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP

Collected: 4/6/22 15:19

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06985

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	4/8/22 12:07	4/11/22 14:17		1.015	0.00364	mg/L	0.000508	0.001015	
* Thallium, Total	4/8/22 12:07	4/11/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	0.0000911	mg/L	0.000081	0.000203	J
* Barium, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	0.0371	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	0.000382	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	0.0000820	mg/L	0.000068	0.000203	J
* Lead, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	0.00196	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	1.42	mg/L	0.169505	0.5075	
* Selenium, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	0.00392	mg/L	0.000508	0.001015	
* Thallium, Dissolved	4/8/22 14:41	4/8/22 18:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Total by CVAA	4/8/22 16:43	4/8/22 21:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/11/22 16:18	4/11/22 16:18		1	0.878	mg/L as N	0.20	0.3	R
Analytical Method: SM 2320 B		Analyst: JAG							
Alkalinity, Total as CaCO3	4/21/22 13:07	4/21/22 14:14		1	40.9	mg/L		0.1	HT
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/12/22 10:28	4/13/22 13:15		1	92.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: JAG							
Bicarbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	40.9	mg/L			
Carbonate Alkalinity, (calc.)	4/21/22 13:07	4/21/22 14:14		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 10:06	4/12/22 10:06		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP

Collected: 4/6/22 15:19

Customer ID:

Submittal Date: 4/7/22 13:12

Laboratory ID Number: BC06985

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:23	4/13/22 10:23		1	1.48	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:41	4/14/22 10:41		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 11:19	4/12/22 11:19		1	32.3	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/22 15:16	4/6/22 15:16			150.13	uS/cm			FA
pH	4/6/22 15:16	4/6/22 15:16			5.24	SU			FA
Temperature	4/6/22 15:16	4/6/22 15:16			19.54	C			FA
Turbidity	4/6/22 15:16	4/6/22 15:16			1.06	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 15:19

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BC06985

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06985	Aluminum, Dissolved	mg/L	0.000329	0.010	0.100	0.106	0.109	0.102	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BC06985	Aluminum, Total	mg/L	0.000618	0.010	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Antimony, Dissolved	mg/L	0.000320	0.00100	0.100	0.0935	0.0955	0.0906	0.0850 to 0.115	93.5	70.0 to 130	2.12	20.0
BC06985	Antimony, Total	mg/L	0.000292	0.00100	0.100	0.0896	0.0925	0.0880	0.0850 to 0.115	89.6	70.0 to 130	3.19	20.0
BC06985	Arsenic, Dissolved	mg/L	0.0000170	0.000176	0.100	0.101	0.104	0.0962	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BC06985	Arsenic, Total	mg/L	0.0000097	0.000176	0.100	0.100	0.0996	0.0995	0.0850 to 0.115	99.9	70.0 to 130	0.401	20.0
BC06985	Barium, Dissolved	mg/L	-0.0000075	0.00100	0.100	0.134	0.133	0.0938	0.0850 to 0.115	96.9	70.0 to 130	0.749	20.0
BC06985	Barium, Total	mg/L	-0.0000225	0.00100	0.100	0.131	0.133	0.0946	0.0850 to 0.115	92.5	70.0 to 130	1.52	20.0
BC06985	Beryllium, Dissolved	mg/L	0.0000040	0.000880	0.100	0.101	0.101	0.0910	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06985	Beryllium, Total	mg/L	0.0000097	0.000880	0.100	0.0956	0.0945	0.0954	0.0850 to 0.115	95.6	70.0 to 130	1.16	20.0
BC06985	Boron, Dissolved	mg/L	0.00210	0.0650	1.00	1.05	1.05	1.02	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BC06985	Boron, Total	mg/L	-0.000114	0.0650	1.00	1.06	1.06	1.01	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BC06985	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.102	0.0966	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Cadmium, Total	mg/L	0.0000038	0.000147	0.100	0.0987	0.0967	0.0997	0.0850 to 0.115	98.7	70.0 to 130	2.05	20.0
BC06985	Calcium, Dissolved	mg/L	-0.000733	0.152	5.00	28.9	28.9	5.19	4.25 to 5.75	104	70.0 to 130	0.00	20.0
BC06985	Calcium, Total	mg/L	0.00612	0.152	5.00	27.5	27.3	4.84	4.25 to 5.75	100	70.0 to 130	0.730	20.0
BC06985	Chloride	mg/L	-0.108	1.00	10.0	11.5	11.6	9.68	9.00 to 11.0	100	80.0 to 120	0.866	20.0
BC06985	Chromium, Dissolved	mg/L	-0.000111	0.000440	0.100	0.0979	0.100	0.0957	0.0850 to 0.115	97.5	70.0 to 130	2.12	20.0
BC06985	Chromium, Total	mg/L	0.0000705	0.000440	0.100	0.0975	0.0982	0.100	0.0850 to 0.115	97.0	70.0 to 130	0.715	20.0
BC06985	Cobalt, Dissolved	mg/L	0.0000011	0.000147	0.100	0.100	0.104	0.0980	0.0850 to 0.115	99.9	70.0 to 130	3.92	20.0
BC06985	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.102	0.105	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC06985	Fluoride	mg/L	-0.0171	0.125	2.50	2.63	2.72	2.60	2.25 to 2.75	105	80.0 to 120	3.36	20.0
BC06985	Iron, Dissolved	mg/L	-2.090E-05	0.0176	0.2	0.202	0.202	0.203	0.170 to 0.230	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 15:19

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BC06985

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06985	Iron, Total	mg/L	0.000379	0.0176	0.2	0.200	0.199	0.198	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BC06985	Lead, Dissolved	mg/L	0.000082	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC06985	Lead, Total	mg/L	0.00001	0.000147	0.100	0.102	0.107	0.0997	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BC06985	Lithium, Dissolved	mg/L	0.000121	0.0154	0.200	0.206	0.205	0.201	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BC06985	Lithium, Total	mg/L	-0.00015	0.0154	0.200	0.201	0.204	0.204	0.170 to 0.230	100	70.0 to 130	1.48	20.0
BC06985	Magnesium, Dissolved	mg/L	0.00120	0.0462	5.00	8.23	8.21	5.35	4.25 to 5.75	106	70.0 to 130	0.243	20.0
BC06985	Magnesium, Total	mg/L	-0.00594	0.0462	5.00	8.09	8.15	5.21	4.25 to 5.75	103	70.0 to 130	0.739	20.0
BC06985	Manganese, Dissolved	mg/L	0.0000525	0.0002	0.100	0.103	0.106	0.0993	0.0850 to 0.115	101	70.0 to 130	2.87	20.0
BC06985	Manganese, Total	mg/L	0.0000218	0.0002	0.100	0.0997	0.101	0.101	0.0850 to 0.115	97.7	70.0 to 130	1.30	20.0
BC06985	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00396	0.00396	0.00397	0.00340 to 0.00460	99.0	70.0 to 130	0.00	20.0
BC06985	Molybdenum, Dissolved	mg/L	0.0000066	0.0002	0.100	0.101	0.103	0.0981	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BC06985	Molybdenum, Total	mg/L	0.0000039	0.0002	0.100	0.0953	0.0959	0.0983	0.0850 to 0.115	95.3	70.0 to 130	0.628	20.0
BC06985	Potassium, Dissolved	mg/L	-0.0233	0.367	10.0	11.3	11.6	9.93	8.50 to 11.5	98.8	70.0 to 130	2.62	20.0
BC06985	Potassium, Total	mg/L	0.0532	0.367	10.0	11.3	11.2	9.93	8.50 to 11.5	98.4	70.0 to 130	0.889	20.0
BC06985	Selenium, Dissolved	mg/L	0.000130	0.00100	0.100	0.108	0.111	0.0983	0.0850 to 0.115	104	70.0 to 130	2.74	20.0
BC06985	Selenium, Total	mg/L	0.0000783	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	96.4	70.0 to 130	0.995	20.0
BC06985	Silicon, Dissolved	mg/L	0.00158	0.0440	1.00	4.38	4.38	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC06985	Silicon, Total	mg/L	-0.000359	0.0440	1.00	4.30	4.28	1.00	0.850 to 1.15	100	70.0 to 130	0.466	20.0
BC06985	Sodium, Dissolved	mg/L	-5.380E-05	0.0660	5.00	7.33	7.27	5.19	4.25 to 5.75	107	70.0 to 130	0.822	20.0
BC06985	Sodium, Total	mg/L	0.00582	0.0660	5.00	7.26	7.35	5.26	4.25 to 5.75	104	70.0 to 130	1.23	20.0
BC06985	Sulfate	mg/L	-0.229	2.0	20.0	51.6	52.8	19.4	18.0 to 22.0	96.5	80.0 to 120	2.30	20.0
BC06985	Thallium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 15:19

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BC06985

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Thallium, Total	mg/L	-0.0000021	0.000147	0.100	0.102	0.109	0.103	0.0850 to 0.115	102	70.0 to 130	6.64	20.0
BC06985	Total Organic Carbon	mg/L	0.250	1.00	10.0	8.81	9.99	21.6		88.1	80.0 to 120	12.6	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 15:19

Customer ID:

Delivery Date: 4/7/22 13:12

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BC06985

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06985	Alkalinity, Total as CaCO3	mg/L					41.8	51.4	45.0 to 55.0			2.18	10.0
BC06985	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	2.56	0.890	1.88	1.80 to 2.20	84.1	90.0 to 110	1.36	15.0
BC06984	Solids, Dissolved	mg/L	1.00	25.0			499	52.0	40.0 to 60.0			2.23	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Definitions

Project Number: WMWGREAP_1358

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
HT	Analysis was performed outside of the analytical holding time.
J	Reported value is an estimate because concentration is less than reporting limit.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N & TOC bottles pH<2. LBM 3/29/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-31	03/28/2022	12:31	7	Groundwater		BC06397
MW-33	03/28/2022	13:28	7	Groundwater		BC06398
MW-32	03/28/2022	14:24	7	Groundwater		BC06399
MW-34HA	03/28/2022	15:35	7	Groundwater		BC06400
MW-2	03/28/2022	16:31	7	Groundwater		BC06401
MW-2 dup	03/28/2022	16:31	7	Sample Duplicate		BC06402
MW-7	03/29/2022	08:48	7	Groundwater		BC06403
FB-3	03/29/2022	09:05	5	Field Blank		BC06404
MW-8	03/29/2022	09:43	7	Groundwater		BC06405

Relinquished By	Received By	Date/Time
		03/29/2022 10:14
		03/29/2022 14:06

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1358	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3 & 9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrite/Nitrate; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N & TOC bottles pH<2. Correcting bottle count for FB-2 to 5. LBM 3/29/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-29	03/28/2022	11:52	7	Groundwater		BC06388
MW-29 DUP	03/28/2022	11:52	7	Groundwater		BC06389
FB-1	03/28/2022	12:22	5	Field Blank		BC06390
MW-30	03/28/2022	13:25	7	Groundwater		BC06391
MW-27	03/28/2022	14:14	7	Groundwater		BC06392
MW-28	03/28/2022	15:03	7	Groundwater		BC06393
MW-23	03/28/2022	16:18	7	Groundwater		BC06394
MW-37H	03/29/2022	09:07	7	Groundwater		BC06395
FB-2	03/29/2022	09:15	5	Field Blank		BC06396

Relinquished By	Received By	Date/Time
		03/29/2022 14:08

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1358		
		Cooler Temp	0.3 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	9772-56581-100-3 & 9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	250 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC bottles pH<2. LBM 3/31/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	03/29/2022	10:56	7	Groundwater		BC06491
MW-9 dup	03/29/2022	10:56	7	Sample Duplicate		BC06492
MW-25	03/29/2022	12:16	7	Groundwater		BC06493
MW-6	03/29/2022	13:46	7	Groundwater		BC06494
MW-12	03/29/2022	16:00	7	Groundwater		BC06495
MW-11	03/30/2022	08:53	7	Groundwater		BC06496
MW-11 dup	03/30/2022	08:53	7	Sample Duplicate		BC06497
MW-21	03/30/2022	10:00	7	Groundwater		BC06498
MW-48H	03/30/2022	11:17	7	Groundwater		BC06499
MW-49H	03/30/2022	12:11	7	Groundwater		BC06500

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura M. Wolf</i>	03/30/2022 16:06

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1358	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete Outside Lab
 Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC bottles pH<2. LBM 3/31/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-45H	03/29/2022	14:28	7	Groundwater		BC06485
MW-45H Dup	03/29/2022	14:28	7	Sample Duplicate		BC06486
MW-15	03/29/2022	16:00	7	Groundwater		BC06487
MW-36H	03/30/2022	09:23	7	Groundwater		BC06488
MW-38H	03/30/2022	10:38	7	Groundwater		BC06489
MW-40H	03/30/2022	11:52	7	Groundwater		BC06490

Relinquished By	Received By	Date/Time
		03/30/2022 16:05

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1358	
Cooler Temp	0.0 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56585-100-7	



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N & TOC bottles pH<2. LBM 4/5/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-26	04/04/2022	13:05	7	Groundwater		BC06745
MW-1	04/04/2022	14:14	7	Groundwater		BC06746
MW-24	04/04/2022	15:30	7	Groundwater		BC06747
MW-44H	04/04/2022	17:14	7	Groundwater		BC06748
FB-4	04/04/2022	17:45	5	Field Blank		BC06749

Relinquished By	Received By	Date/Time
<i>M. Dyer</i>	<i>Laura M. Dyer</i>	04/05/2022 10:35

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1358	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date		Routine		Results To		Dustin Brooks, Greg Dyer	
Collector		TJ Daugherty		Requested By		Greg Dyer	
				Location		Greene Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N & TOC bottles pH<2. LBM 4/5/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-14	04/04/2022	12:28	7	Groundwater		BC06750
MW-10	04/04/2022	14:40	7	Groundwater		BC06751
MW-17	04/04/2022	16:18	7	Groundwater		BC06752
MW-5	04/04/2022	18:31	7	Groundwater		BC06753

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	04/05/2022 10:34

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1358	
	Cooler Temp	0.3 degrees C
	Thermometer ID	5408-27568-2-2
	pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N & TOC bottles pH<2. Correcting time for MW-42H to 08:33 per bottles and TJD. LBM 4/7/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-4	04/05/2022	17:00	7	Groundwater		BC06971
MW-3	04/05/2022	18:10	7	Groundwater		BC06972
MW-42H	04/06/2022	08:33	7	Groundwater		BC06973
MW-43H	04/06/2022	09:38	7	Groundwater		BC06974
MW-13	04/06/2022	11:10	7	Groundwater		BC06975
FB-5	04/06/2022	11:35	5	Field Blank		BC06976
MW-16	04/06/2022	12:07	7	Groundwater		BC06977
MW-18	04/06/2022	15:10	7	Groundwater		BC06978
EB-1	04/06/2022	15:30	5	Equipment Blank		BC06979

Relinquished By	Received By	Date/Time
		04/07/2022 10:26

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1358	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: Updating sample # to MW-39H per DFG. N/N & TOC bottles pH<2. LBM 4/7/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-57H	04/05/2022	16:47	7	Groundwater		BC06980
MW-54H	04/05/2022	17:50	7	Groundwater		BC06981
MW-53H	04/06/2022	08:10	7	Groundwater		BC06982
MW-39H	04/06/2022	09:27	7	Groundwater		BC06983
MW-41H	04/06/2022	11:58	7	Groundwater		BC06984
MW-35H	04/06/2022	15:19	7	Groundwater		BC06985

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Laura Miller</i>	04/07/2022 10:48

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1358	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer	
	Collector	Dallas Gentry		Requested By	Greg Dyer
			Location	Greene Ash Pond	

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Rad MS/MSD collected at MW-32

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-31	03/28/2022	12:31	1	Groundwater		BC06415
MW-33	03/28/2022	13:28	1	Groundwater		BC06416
MW-32	03/28/2022	14:24	3	Groundwater		BC06417
MW-34HA	03/28/2022	15:35	1	Groundwater		BC06418
MW-2	03/28/2022	16:31	1	Groundwater		BC06419
MW-2 dup	03/28/2022	16:31	1	Sample Duplicate		BC06420
MW-7	03/29/2022	08:48	1	Groundwater		BC06421
FB-3	03/29/2022	09:05	1	Field Blank		BC06422
MW-8	03/29/2022	09:43	1	Groundwater		BC06423

Relinquished By	Received By	Date/Time
		03/29/2022 10:14
		03/29/2022 14:05

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1358		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	9772-56581-100-3 & 9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-29	03/28/2022	11:52	1	Groundwater		BC06406
MW-29 DUP	03/28/2022	11:52	1	Groundwater		BC06407
FB-1	03/28/2022	12:22	1	Field Blank		BC06408
MW-30	03/28/2022	13:25	1	Groundwater		BC06409
MW-27	03/28/2022	14:14	1	Groundwater		BC06410
MW-28	03/28/2022	15:03	1	Groundwater		BC06411
MW-23	03/28/2022	16:18	1	Groundwater		BC06412
MW-37H	03/29/2022	09:07	1	Groundwater		BC06413
FB-2	03/29/2022	09:15	1	Field Blank		BC06414

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Raven Miller</i>	03/29/2022 14:07

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1358		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	9772-56581-100-3 & 9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium MS/MSD collected at MW-25

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-9	03/29/2022	10:56	1	Groundwater		BC06507
MW-9 dup	03/29/2022	10:56	1	Sample Duplicate		BC06508
MW-25	03/29/2022	12:16	3	Groundwater		BC06509
MW-6	03/29/2022	13:46	1	Groundwater		BC06510
MW-12	03/29/2022	16:00	1	Groundwater		BC06511
MW-11	03/30/2022	08:53	1	Groundwater		BC06512
MW-11 dup	03/30/2022	08:53	1	Sample Duplicate		BC06513
MW-21	03/30/2022	10:00	1	Groundwater		BC06514
MW-48H	03/30/2022	11:17	1	Groundwater		BC06515
MW-49H	03/30/2022	12:11	1	Groundwater		BC06516

Relinquished By	Received By	Date/Time
<i>M. Gentry</i>	<i>Laura M. Dyer</i>	03/30/2022 16:06

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1358	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-45H	03/29/2022	14:28	1	Groundwater		BC06501
MW-45H Dup	03/29/2022	14:28	1	Sample Duplicate		BC06502
MW-15	03/29/2022	16:00	1	Groundwater		BC06503
MW-36H	03/30/2022	09:23	3	Groundwater		BC06504
MW-38H	03/30/2022	10:38	1	Groundwater		BC06505
MW-40H	03/30/2022	11:52	1	Groundwater		BC06506

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Laura M...</i>	03/30/2022 16:05

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1358	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-26	04/04/2022	13:05	1	Groundwater		BC06754
MW-1	04/04/2022	14:14	1	Groundwater		BC06755
MW-24	04/04/2022	15:30	1	Groundwater		BC06756
MW-44H	04/04/2022	17:14	1	Groundwater		BC06757
FB-4	04/04/2022	17:45	1	Field Blank		BC06758

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura Miley</i>	04/05/2022 10:35

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1358	
Cooler Temp	N/A	pH Strip ID 9772-56585-100-7
Thermometer ID	N/A	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-14	04/04/2022	12:28	1	Groundwater		BC06759
MW-10	04/04/2022	14:40	1	Groundwater		BC06760
MW-17	04/04/2022	16:18	1	Groundwater		BC06761
MW-5	04/04/2022	18:31	1	Groundwater		BC06762

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Laura M. Dyer</i>	04/05/2022 10:34

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1358		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab



 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments	Correcting time for MW-42H to 08:33 per bottles and TJD. LBM 4/7/22
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Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-4	04/05/2022	17:00	1	Groundwater		BC06986
MW-3	04/05/2022	18:10	1	Groundwater		BC06987
MW-42H	04/06/2022	08:33	1	Groundwater		BC06988
MW-43H	04/06/2022	09:38	1	Groundwater		BC06989
MW-13	04/06/2022	11:10	1	Groundwater		BC06990
FB-5	04/06/2022	11:35	1	Field Blank		BC06991
MW-16	04/06/2022	12:07	1	Groundwater		BC06992
MW-18	04/06/2022	15:10	1	Groundwater		BC06993
EB-1	04/06/2022	15:30	1	Equipment Blank		BC06994

Relinquished By	Received By	Date/Time
		04/07/2022 10:26

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1358		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Updating sample # to MW-39H per DFG. LBM 4/7/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-57H	04/05/2022	16:47	1	Groundwater		BC06995
MW-54H	04/05/2022	17:50	1	Groundwater		BC06996
MW-53H	04/06/2022	08:10	1	Groundwater		BC06997
MW-39H	04/06/2022	09:27	1	Groundwater		BC06998
MW-41H	04/06/2022	11:58	1	Groundwater		BC06999
MW-35H	04/06/2022	15:19	1	Groundwater		BC07000

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Raven M...</i>	04/07/2022 10:48

SmarTroll ID 7586-41443-5-2
Turbidity ID 3901-20010-2-2
Sample Event 1358

All metals and radiological bottles have pH < 2
Cooler Temp N/A
Thermometer ID N/A
pH Strip ID 9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

May 17, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGREAP_1358
Pace Project No.: 30480057

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: WMWGREAP_1358

Pace Project No.: 30480057

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30480057001	BC06406 MW-29	Water	03/28/22 11:52	04/12/22 10:25
30480057002	BC06407 MW-29 DUP	Water	03/28/22 11:52	04/12/22 10:25
30480057003	BC06408 FB-1	Water	03/28/22 12:22	04/12/22 10:25
30480057004	BC06409 MW-30	Water	03/28/22 13:25	04/12/22 10:25
30480057005	BC06410 MW-27	Water	03/28/22 14:14	04/12/22 10:25
30480057006	BC06411 MW-28	Water	03/28/22 15:03	04/12/22 10:25
30480057007	BC06412 MW-23	Water	03/28/22 16:18	04/12/22 10:25
30480057008	BC06413 MW-37H	Water	03/29/22 09:07	04/12/22 10:25
30480057009	BC06414 FB-2	Water	03/29/22 09:15	04/12/22 10:25
30480057010	BC06415 MW-31	Water	03/28/22 12:31	04/12/22 10:25
30480057011	BC06416 MW-33	Water	03/28/22 13:28	04/12/22 10:25
30480057012	BC06417 MW-32	Water	03/28/22 14:24	04/12/22 10:25
30480057013	BC06417 MW-32 MS	Water	03/28/22 14:24	04/12/22 10:25
30480057014	BC06417 MW-32 MSD	Water	03/28/22 14:24	04/12/22 10:25
30480057015	BC06418 MW-34HA	Water	03/28/22 15:35	04/12/22 10:25
30480057016	BC06419 MW-2	Water	03/28/22 16:31	04/12/22 10:25
30480057017	BC06420 MW-2 DUP	Water	03/28/22 16:31	04/12/22 10:25
30480057018	BC06421 MW-7	Water	03/29/22 08:48	04/12/22 10:25
30480057019	BC06422 FB-3	Water	03/29/22 09:05	04/12/22 10:25
30480057020	BC06423 MW-8	Water	03/29/22 09:43	04/12/22 10:25
30480057021	BC06501 MW-45H	Water	03/29/22 14:28	04/12/22 10:25
30480057022	BC06502 MW-45H DUP	Water	03/29/22 14:28	04/12/22 10:25
30480057023	BC06503 MW-15	Water	03/29/22 16:00	04/12/22 10:25
30480057024	BC06504 MW-36H	Water	03/30/22 09:23	04/12/22 10:25
30480057025	BC06504 MW-36H MS	Water	03/30/22 09:23	04/12/22 10:25
30480057026	BC06504 MW-36H MSD	Water	03/30/22 09:23	04/12/22 10:25
30480057027	BC06505 MW-38H	Water	03/30/22 10:38	04/12/22 10:25
30480057028	BC06506 MW-40H	Water	03/30/22 11:52	04/12/22 10:25
30480057029	BC06507 MW-9	Water	03/29/22 10:56	04/12/22 10:25
30480057030	BC06508 MW-9 DUP	Water	03/29/22 10:56	04/12/22 10:25
30480057031	BC06509 MW-25	Water	03/29/22 12:16	04/12/22 10:25
30480057032	BC06509 MW-25 MS	Water	03/29/22 12:16	04/12/22 10:25
30480057033	BC06509 MW-25 MSD	Water	03/29/22 12:16	04/12/22 10:25
30480057034	BC06510 MW-6	Water	03/29/22 13:46	04/12/22 10:25
30480057035	BC06511 MW-12	Water	03/29/22 16:00	04/12/22 10:25
30480057036	BC06512 MW-11	Water	03/30/22 08:53	04/12/22 10:25
30480057037	BC06513 MW-11 DUP	Water	03/30/22 08:53	04/12/22 10:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30480057038	BC06514 MW-21	Water	03/30/22 10:00	04/12/22 10:25
30480057039	BC06515 MW-48H	Water	03/30/22 11:17	04/12/22 10:25
30480057040	BC06516 MW-49H	Water	03/30/22 12:11	04/12/22 10:25
30480057041	BC06754 MW-26	Water	04/04/22 13:05	04/12/22 10:25
30480057042	BC06755 MW-1	Water	04/04/22 14:14	04/12/22 10:25
30480057043	BC06756 MW-24	Water	04/04/22 15:30	04/12/22 10:25
30480057044	BC06757 MW-44H	Water	04/04/22 17:14	04/12/22 10:25
30480057045	BC06758 FB-4	Water	04/04/22 17:45	04/12/22 10:25
30480057046	BC06759 MW-14	Water	04/04/22 12:28	04/12/22 10:25
30480057047	BC06760 MW-10	Water	04/04/22 14:40	04/12/22 10:25
30480057048	BC06761 MW-17	Water	04/04/22 16:18	04/12/22 10:25
30480057049	BC06762 MW-5	Water	04/04/22 18:31	04/12/22 10:25
30480057050	BC06986 PZ-4	Water	04/05/22 17:00	04/12/22 10:25
30480057051	BC06987 MW-3	Water	04/05/22 18:10	04/12/22 10:25
30480057052	BC06988 MW-42H	Water	04/06/22 08:33	04/12/22 10:25
30480057053	BC06989 MW-43H	Water	04/06/22 09:38	04/12/22 10:25
30480057054	BC06990 MW-13	Water	04/06/22 11:10	04/12/22 10:25
30480057055	BC06991 FB-5	Water	04/06/22 11:35	04/12/22 10:25
30480057056	BC06992 MW-16	Water	04/06/22 12:07	04/12/22 10:25
30480057057	BC06993 MW-18	Water	04/06/22 15:10	04/12/22 10:25
30480057058	BC06994 EB-1	Water	04/06/22 15:30	04/12/22 10:25
30480057059	BC06995 MW-57H	Water	04/05/22 16:47	04/12/22 10:25
30480057060	BC06996 MW-54H	Water	04/05/22 17:50	04/12/22 10:25
30480057061	BC06997 MW-53H	Water	04/06/22 08:10	04/12/22 10:25
30480057062	BC06998 MW-39H	Water	04/06/22 09:27	04/12/22 10:25
30480057063	BC06999 MW-41H	Water	04/06/22 11:58	04/12/22 10:25
30480057064	BC07000 MW-35H	Water	04/06/22 15:19	04/12/22 10:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1358
Pace Project No.: 30480057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30480057001	BC06406 MW-29	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057002	BC06407 MW-29 DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057003	BC06408 FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057004	BC06409 MW-30	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057005	BC06410 MW-27	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057006	BC06411 MW-28	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057007	BC06412 MW-23	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057008	BC06413 MW-37H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057009	BC06414 FB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057010	BC06415 MW-31	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057011	BC06416 MW-33	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057012	BC06417 MW-32	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057013	BC06417 MW-32 MS	EPA 9315	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1358
Pace Project No.: 30480057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30480057014	BC06417 MW-32 MSD	EPA 9320	VAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30480057015	BC06418 MW-34HA	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057016	BC06419 MW-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057017	BC06420 MW-2 DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057018	BC06421 MW-7	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057019	BC06422 FB-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057020	BC06423 MW-8	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057021	BC06501 MW-45H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057022	BC06502 MW-45H DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057023	BC06503 MW-15	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057024	BC06504 MW-36H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057025	BC06504 MW-36H MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057026	BC06504 MW-36H MSD	EPA 9320	JSM	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1358
Pace Project No.: 30480057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30480057027	BC06505 MW-38H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057028	BC06506 MW-40H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057029	BC06507 MW-9	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057030	BC06508 MW-9 DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057031	BC06509 MW-25	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057032	BC06509 MW-25 MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30480057033	BC06509 MW-25 MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30480057034	BC06510 MW-6	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057035	BC06511 MW-12	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057036	BC06512 MW-11	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057037	BC06513 MW-11 DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057038	BC06514 MW-21	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057039	BC06515 MW-48H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1358
Pace Project No.: 30480057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30480057040	BC06516 MW-49H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057041	BC06754 MW-26	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057042	BC06755 MW-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057043	BC06756 MW-24	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057044	BC06757 MW-44H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057045	BC06758 FB-4	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057046	BC06759 MW-14	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057047	BC06760 MW-10	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057048	BC06761 MW-17	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057049	BC06762 MW-5	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057050	BC06986 PZ-4	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057051	BC06987 MW-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30480057052	BC06988 MW-42H	EPA 9315	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1358
Pace Project No.: 30480057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30480057053	BC06989 MW-43H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057054	BC06990 MW-13	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057055	BC06991 FB-5	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057056	BC06992 MW-16	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057057	BC06993 MW-18	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057058	BC06994 EB-1	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057059	BC06995 MW-57H	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057060	BC06996 MW-54H	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057061	BC06997 MW-53H	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057062	BC06998 MW-39H	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057063	BC06999 MW-41H	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
30480057064	BC07000 MW-35H	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1358
Pace Project No.: 30480057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1358

Pace Project No.: 30480057

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: May 17, 2022

General Information:

64 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1358

Pace Project No.: 30480057

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: May 17, 2022

General Information:

64 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1358

Pace Project No.: 30480057

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: May 17, 2022

General Information:

58 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06406 MW-29 **Lab ID: 30480057001** Collected: 03/28/22 11:52 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0734U ± 0.127 (0.285) C:100% T:NA	pCi/L	05/03/22 10:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.456U ± 0.365 (0.723) C:70% T:91%	pCi/L	04/29/22 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.529U ± 0.492 (1.01)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06407 MW-29 DUP **Lab ID: 30480057002** Collected: 03/28/22 11:52 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.183U ± 0.174 (0.325) C:97% T:NA	pCi/L	05/03/22 10:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.844 ± 0.443 (0.768) C:60% T:89%	pCi/L	04/29/22 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03U ± 0.617 (1.09)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06408 FB-1 **Lab ID: 30480057003** Collected: 03/28/22 12:22 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0174U ± 0.122 (0.358) C:103% T:NA	pCi/L	05/03/22 10:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.677U ± 0.400 (0.725) C:64% T:89%	pCi/L	04/29/22 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.677U ± 0.522 (1.08)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06409 MW-30 **Lab ID: 30480057004** Collected: 03/28/22 13:25 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.321 ± 0.198 (0.274) C:99% T:NA	pCi/L	05/03/22 10:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.393U ± 0.403 (0.831) C:66% T:82%	pCi/L	04/29/22 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.714U ± 0.601 (1.11)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06410 MW-27 **Lab ID: 30480057005** Collected: 03/28/22 14:14 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.207U ± 0.176 (0.311) C:101% T:NA	pCi/L	05/03/22 10:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.526U ± 0.392 (0.770) C:68% T:90%	pCi/L	04/29/22 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.733U ± 0.568 (1.08)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06411 MW-28 **Lab ID: 30480057006** Collected: 03/28/22 15:03 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0927U ± 0.176 (0.405) C:102% T:NA	pCi/L	05/03/22 10:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.461U ± 0.346 (0.673) C:74% T:86%	pCi/L	04/29/22 11:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.554U ± 0.522 (1.08)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06412 MW-23 **Lab ID: 30480057007** Collected: 03/28/22 16:18 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.426 ± 0.217 (0.272) C:100% T:NA	pCi/L	05/03/22 10:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.564U ± 0.401 (0.778) C:72% T:84%	pCi/L	04/29/22 11:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.990U ± 0.618 (1.05)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06413 MW-37H **Lab ID: 30480057008** Collected: 03/29/22 09:07 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0795U ± 0.134 (0.298) C:97% T:NA	pCi/L	05/03/22 10:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.325U ± 0.370 (0.774) C:67% T:83%	pCi/L	04/29/22 11:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.405U ± 0.504 (1.07)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06414 FB-2 **Lab ID: 30480057009** Collected: 03/29/22 09:15 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.170U ± 0.169 (0.315) C:101% T:NA	pCi/L	05/03/22 10:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.469U ± 0.324 (0.609) C:69% T:91%	pCi/L	04/29/22 11:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.639U ± 0.493 (0.924)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06415 MW-31 **Lab ID: 30480057010** Collected: 03/28/22 12:31 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.239U ± 0.177 (0.281) C:102% T:NA	pCi/L	05/03/22 10:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.174U ± 0.286 (0.622) C:69% T:91%	pCi/L	04/29/22 11:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.413U ± 0.463 (0.903)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06416 MW-33 **Lab ID: 30480057011** Collected: 03/28/22 13:28 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.730 ± 0.297 (0.323) C:99% T:NA	pCi/L	05/03/22 10:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.627U ± 0.361 (0.651) C:73% T:89%	pCi/L	04/29/22 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.36 ± 0.658 (0.974)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06417 MW-32 **Lab ID: 30480057012** Collected: 03/28/22 14:24 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.143U ± 0.165 (0.327) C:95% T:NA	pCi/L	05/03/22 12:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.539U ± 0.357 (0.671) C:71% T:87%	pCi/L	04/29/22 11:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.682U ± 0.522 (0.998)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06417 MW-32 MS **Lab ID: 30480057013** Collected: 03/28/22 14:24 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	95.79 %REC ± NA (NA) C:NA T:NA	pCi/L	05/03/22 12:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	91.37 %REC ± NA (NA) C:NA T:NA	pCi/L	04/29/22 11:16	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358
Pace Project No.: 30480057

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	95.07 %REC 0.75RPD ± NA (NA) C:NA T:NA	pCi/L	05/03/22 12:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	91.35 %REC 0.02 RPD ± NA (NA) C:NA T:NA	pCi/L	04/29/22 11:16	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06418 MW-34HA **Lab ID: 30480057015** Collected: 03/28/22 15:35 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0930U ± 0.153 (0.340) C:101% T:NA	pCi/L	05/03/22 12:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.373U ± 0.299 (0.588) C:78% T:90%	pCi/L	04/29/22 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.466U ± 0.452 (0.928)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06419 MW-2 **Lab ID: 30480057016** Collected: 03/28/22 16:31 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.419 ± 0.205 (0.236) C:101% T:NA	pCi/L	05/03/22 12:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.326U ± 0.347 (0.716) C:74% T:83%	pCi/L	04/29/22 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.745U ± 0.552 (0.952)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06420 MW-2 DUP **Lab ID: 30480057017** Collected: 03/28/22 16:31 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.558 ± 0.255 (0.299) C:102% T:NA	pCi/L	05/03/22 12:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.676U ± 0.409 (0.753) C:72% T:85%	pCi/L	04/29/22 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.23 ± 0.664 (1.05)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06421 MW-7 **Lab ID: 30480057018** Collected: 03/29/22 08:48 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.236U ± 0.217 (0.425) C:102% T:NA	pCi/L	05/03/22 12:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.339U ± 0.320 (0.648) C:68% T:91%	pCi/L	04/29/22 14:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.575U ± 0.537 (1.07)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06422 FB-3 **Lab ID: 30480057019** Collected: 03/29/22 09:05 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.302 ± 0.191 (0.279) C:103% T:NA	pCi/L	05/03/22 12:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.585U ± 0.338 (0.608) C:73% T:97%	pCi/L	04/29/22 14:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.887 ± 0.529 (0.887)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06423 MW-8 **Lab ID: 30480057020** Collected: 03/29/22 09:43 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.348 ± 0.219 (0.326) C:100% T:NA	pCi/L	05/03/22 12:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.273U ± 0.405 (0.873) C:71% T:71%	pCi/L	04/29/22 14:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.621U ± 0.624 (1.20)	pCi/L	05/03/22 17:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06501 MW-45H **Lab ID: 30480057021** Collected: 03/29/22 14:28 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.282U ± 0.194 (0.307) C:101% T:NA	pCi/L	05/03/22 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.379U ± 0.379 (0.780) C:71% T:87%	pCi/L	04/29/22 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.661U ± 0.573 (1.09)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06502 MW-45H DUP **Lab ID: 30480057022** Collected: 03/29/22 14:28 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.299U ± 0.201 (0.319) C:97% T:NA	pCi/L	05/03/22 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.531U ± 0.407 (0.793) C:68% T:80%	pCi/L	04/29/22 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.830U ± 0.608 (1.11)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06503 MW-15 **Lab ID: 30480057023** Collected: 03/29/22 16:00 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0530U ± 0.143 (0.348) C:102% T:NA	pCi/L	05/03/22 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.220U ± 0.346 (0.750) C:72% T:80%	pCi/L	04/29/22 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.273U ± 0.489 (1.10)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06504 MW-36H **Lab ID: 30480057024** Collected: 03/30/22 09:23 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0491U ± 0.118 (0.284) C:105% T:NA	pCi/L	05/03/22 13:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.125U ± 0.367 (0.826) C:76% T:74%	pCi/L	04/29/22 14:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.174U ± 0.485 (1.11)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06504 MW-36H MS **Lab ID: 30480057025** Collected: 03/30/22 09:23 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	103.49 %REC ± NA (NA) C:NA T:NA	pCi/L	05/03/22 13:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	82.18 %REC ± NA (NA) C:NA T:NA	pCi/L	04/29/22 14:20	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358
Pace Project No.: 30480057

Sample: BC06504 MW-36H MSD **Lab ID: 30480057026** Collected: 03/30/22 09:23 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	89.62 %REC 14.37RPD ± NA (NA) C:NA T:NA	pCi/L	05/03/22 13:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	91.23 %REC 10.44 RPD ± NA (NA) C:NA T:NA	pCi/L	04/29/22 14:20	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06505 MW-38H **Lab ID: 30480057027** Collected: 03/30/22 10:38 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0349U ± 0.149 (0.387) C:101% T:NA	pCi/L	05/03/22 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.213U ± 0.377 (0.824) C:72% T:80%	pCi/L	04/29/22 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.248U ± 0.526 (1.21)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06506 MW-40H **Lab ID: 30480057028** Collected: 03/30/22 11:52 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.376 ± 0.229 (0.333) C:98% T:NA	pCi/L	05/03/22 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.369U ± 0.362 (0.742) C:70% T:85%	pCi/L	04/29/22 14:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.745U ± 0.591 (1.08)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06507 MW-9 **Lab ID: 30480057029** Collected: 03/29/22 10:56 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.616 ± 0.266 (0.287) C:100% T:NA	pCi/L	05/03/22 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.635U ± 0.375 (0.672) C:70% T:83%	pCi/L	04/29/22 14:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.25 ± 0.641 (0.959)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06508 MW-9 DUP **Lab ID: 30480057030** Collected: 03/29/22 10:56 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.510 ± 0.225 (0.240) C:102% T:NA	pCi/L	05/03/22 13:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0764U ± 0.305 (0.698) C:69% T:84%	pCi/L	04/29/22 14:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.586U ± 0.530 (0.938)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06509 MW-25 **Lab ID: 30480057031** Collected: 03/29/22 12:16 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0255U ± 0.119 (0.309) C:99% T:NA	pCi/L	05/04/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.344U ± 0.377 (0.789) C:77% T:79%	pCi/L	04/29/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.370U ± 0.496 (1.10)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06509 MW-25 MS **Lab ID: 30480057032** Collected: 03/29/22 12:16 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	101.07 %REC ± NA (NA) C:NA T:NA	pCi/L	05/04/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	90.31 %REC ± NA (NA) C:NA T:NA	pCi/L	04/29/22 12:18	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06509 MW-25 MSD **Lab ID: 30480057033** Collected: 03/29/22 12:16 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	104.47 %REC 3.31RPD ± NA (NA) C:NA T:NA	pCi/L	05/04/22 09:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	97.26 %REC 7.42 RPD ± NA (NA) C:NA T:NA	pCi/L	04/29/22 12:18	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06510 MW-6 **Lab ID: 30480057034** Collected: 03/29/22 13:46 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.282U ± 0.194 (0.315) C:100% T:NA	pCi/L	05/03/22 13:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.112U ± 0.337 (0.760) C:68% T:84%	pCi/L	04/29/22 14:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.394U ± 0.531 (1.08)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06511 MW-12 **Lab ID: 30480057035** Collected: 03/29/22 16:00 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0666U ± 0.128 (0.295) C:101% T:NA	pCi/L	05/03/22 15:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.30 ± 0.524 (0.799) C:67% T:82%	pCi/L	04/29/22 14:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.37 ± 0.652 (1.09)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06512 MW-11 **Lab ID: 30480057036** Collected: 03/30/22 08:53 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.205U ± 0.177 (0.313) C:97% T:NA	pCi/L	05/03/22 15:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.392U ± 0.369 (0.748) C:68% T:84%	pCi/L	04/29/22 14:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.597U ± 0.546 (1.06)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06513 MW-11 DUP **Lab ID: 30480057037** Collected: 03/30/22 08:53 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.255U ± 0.188 (0.314) C:95% T:NA	pCi/L	05/03/22 15:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.453U ± 0.433 (0.887) C:69% T:81%	pCi/L	04/29/22 14:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.708U ± 0.621 (1.20)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06514 MW-21 **Lab ID: 30480057038** Collected: 03/30/22 10:00 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.199U ± 0.171 (0.311) C:98% T:NA	pCi/L	05/03/22 15:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.839 ± 0.398 (0.668) C:83% T:76%	pCi/L	04/29/22 12:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.04 ± 0.569 (0.979)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06515 MW-48H **Lab ID: 30480057039** Collected: 03/30/22 11:17 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.167U ± 0.148 (0.257) C:98% T:NA	pCi/L	05/03/22 15:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.148U ± 0.288 (0.634) C:79% T:87%	pCi/L	04/29/22 12:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.315U ± 0.436 (0.891)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06516 MW-49H **Lab ID: 30480057040** Collected: 03/30/22 12:11 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.254U ± 0.174 (0.273) C:100% T:NA	pCi/L	05/03/22 15:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0281U ± 0.290 (0.686) C:77% T:84%	pCi/L	04/29/22 12:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.254U ± 0.464 (0.959)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06754 MW-26 **Lab ID: 30480057041** Collected: 04/04/22 13:05 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.131U ± 0.186 (0.405) C:100% T:NA	pCi/L	05/03/22 15:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.419U ± 0.277 (0.517) C:79% T:91%	pCi/L	04/29/22 12:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.550U ± 0.463 (0.922)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06755 MW-1 **Lab ID: 30480057042** Collected: 04/04/22 14:14 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.516 ± 0.256 (0.315) C:96% T:NA	pCi/L	05/03/22 15:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.383U ± 0.291 (0.561) C:78% T:87%	pCi/L	04/29/22 12:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.899 ± 0.547 (0.876)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06756 MW-24 **Lab ID: 30480057043** Collected: 04/04/22 15:30 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.394 ± 0.217 (0.296) C:99% T:NA	pCi/L	05/03/22 15:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.04 ± 0.475 (0.779) C:76% T:71%	pCi/L	04/29/22 12:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.43 ± 0.692 (1.08)	pCi/L	05/05/22 16:53	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06757 MW-44H **Lab ID: 30480057044** Collected: 04/04/22 17:14 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.291U ± 0.191 (0.302) C:105% T:NA	pCi/L	05/04/22 09:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.504U ± 0.341 (0.643) C:70% T:88%	pCi/L	04/29/22 12:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.795U ± 0.532 (0.945)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06758 FB-4 **Lab ID: 30480057045** Collected: 04/04/22 17:45 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.00419U ± 0.142 (0.377) C:102% T:NA	pCi/L	05/04/22 09:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.374U ± 0.316 (0.629) C:74% T:86%	pCi/L	04/29/22 12:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.378U ± 0.458 (1.01)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06759 MW-14 **Lab ID: 30480057046** Collected: 04/04/22 12:28 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.390 ± 0.233 (0.347) C:97% T:NA	pCi/L	05/04/22 09:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.639U ± 0.358 (0.645) C:78% T:87%	pCi/L	04/29/22 12:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.03 ± 0.591 (0.992)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06760 MW-10 **Lab ID: 30480057047** Collected: 04/04/22 14:40 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.682 ± 0.290 (0.304) C:101% T:NA	pCi/L	05/04/22 09:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.40 ± 0.489 (0.692) C:81% T:81%	pCi/L	04/29/22 12:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.08 ± 0.779 (0.996)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06761 MW-17 **Lab ID: 30480057048** Collected: 04/04/22 16:18 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.05 ± 0.351 (0.300) C:100% T:NA	pCi/L	05/04/22 09:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.12 ± 0.419 (0.597) C:74% T:89%	pCi/L	04/29/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.17 ± 0.770 (0.897)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06762 MW-5 **Lab ID: 30480057049** Collected: 04/04/22 18:31 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.720 ± 0.302 (0.362) C:100% T:NA	pCi/L	05/04/22 09:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.406U ± 0.305 (0.587) C:77% T:83%	pCi/L	04/29/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.13 ± 0.607 (0.949)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06986 PZ-4 **Lab ID: 30480057050** Collected: 04/05/22 17:00 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.466 ± 0.220 (0.248) C:101% T:NA	pCi/L	05/04/22 11:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.26 ± 0.453 (0.644) C:76% T:86%	pCi/L	04/29/22 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.73 ± 0.673 (0.892)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06987 MW-3 **Lab ID: 30480057051** Collected: 04/05/22 18:10 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.190U ± 0.181 (0.341) C:103% T:NA	pCi/L	05/04/22 11:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.342U ± 0.302 (0.606) C:73% T:90%	pCi/L	04/29/22 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.532U ± 0.483 (0.947)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06988 MW-42H **Lab ID: 30480057052** Collected: 04/06/22 08:33 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.431 ± 0.247 (0.342) C:97% T:NA	pCi/L	05/04/22 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.575U ± 0.342 (0.622) C:76% T:85%	pCi/L	04/29/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.01 ± 0.589 (0.964)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06989 MW-43H **Lab ID: 30480057053** Collected: 04/06/22 09:38 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.805 ± 0.328 (0.349) C:100% T:NA	pCi/L	05/04/22 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.428 (0.677) C:77% T:86%	pCi/L	04/29/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.84 ± 0.756 (1.03)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06990 MW-13 **Lab ID: 30480057054** Collected: 04/06/22 11:10 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0317U ± 0.117 (0.362) C:99% T:NA	pCi/L	05/04/22 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.338U ± 0.326 (0.666) C:74% T:84%	pCi/L	04/29/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.338U ± 0.443 (1.03)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06991 FB-5 **Lab ID: 30480057055** Collected: 04/06/22 11:35 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0695U ± 0.141 (0.326) C:102% T:NA	pCi/L	05/04/22 10:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0832U ± 0.309 (0.751) C:68% T:84%	pCi/L	04/22/22 12:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0695U ± 0.450 (1.08)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06992 MW-16 **Lab ID: 30480057056** Collected: 04/06/22 12:07 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.508 ± 0.248 (0.286) C:102% T:NA	pCi/L	05/04/22 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.495U ± 0.392 (0.770) C:70% T:86%	pCi/L	04/22/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.00U ± 0.640 (1.06)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06993 MW-18 **Lab ID: 30480057057** Collected: 04/06/22 15:10 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.228U ± 0.209 (0.410) C:104% T:NA	pCi/L	05/04/22 10:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.949 ± 0.464 (0.773) C:56% T:90%	pCi/L	04/22/22 11:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.18U ± 0.673 (1.18)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06994 EB-1 **Lab ID: 30480057058** Collected: 04/06/22 15:30 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0875U ± 0.128 (0.274) C:102% T:NA	pCi/L	05/04/22 10:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.309U ± 0.396 (0.840) C:65% T:86%	pCi/L	04/22/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.397U ± 0.524 (1.11)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06995 MW-57H **Lab ID: 30480057059** Collected: 04/05/22 16:47 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.378 ± 0.218 (0.290) C:99% T:NA	pCi/L	05/04/22 13:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.311U ± 0.389 (0.822) C:68% T:79%	pCi/L	04/22/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.689U ± 0.607 (1.11)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06996 MW-54H **Lab ID: 30480057060** Collected: 04/05/22 17:50 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.448 ± 0.230 (0.312) C:101% T:NA	pCi/L	05/04/22 13:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.515U ± 0.403 (0.794) C:70% T:85%	pCi/L	04/22/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.963U ± 0.633 (1.11)	pCi/L	05/05/22 16:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06997 MW-53H **Lab ID: 30480057061** Collected: 04/06/22 08:10 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.576 ± 0.255 (0.291) C:93% T:NA	pCi/L	05/04/22 13:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.01 ± 0.436 (0.671) C:68% T:86%	pCi/L	04/22/22 12:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.59 ± 0.691 (0.962)	pCi/L	05/09/22 17:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06998 MW-39H **Lab ID: 30480057062** Collected: 04/06/22 09:27 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.331 ± 0.191 (0.279) C:104% T:NA	pCi/L	05/04/22 13:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.906 ± 0.415 (0.668) C:69% T:88%	pCi/L	04/22/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.24 ± 0.606 (0.947)	pCi/L	05/09/22 17:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC06999 MW-41H **Lab ID: 30480057063** Collected: 04/06/22 11:58 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.597 ± 0.243 (0.236) C:98% T:NA	pCi/L	05/04/22 13:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.520U ± 0.392 (0.763) C:65% T:90%	pCi/L	04/22/22 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.12 ± 0.635 (0.999)	pCi/L	05/09/22 17:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

Sample: BC07000 MW-35H **Lab ID: 30480057064** Collected: 04/06/22 15:19 Received: 04/12/22 10:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.108U ± 0.133 (0.271) C:101% T:NA	pCi/L	05/04/22 13:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.177U ± 0.344 (0.845) C:66% T:87%	pCi/L	04/22/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.108U ± 0.477 (1.12)	pCi/L	05/09/22 17:21	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1358
Pace Project No.: 30480057

QC Batch:	499034	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	30480057001, 30480057002, 30480057003, 30480057004, 30480057005, 30480057006, 30480057007, 30480057008, 30480057009, 30480057010, 30480057011, 30480057012, 30480057013, 30480057014, 30480057015, 30480057016, 30480057017, 30480057018, 30480057019, 30480057020		

METHOD BLANK:	2415357	Matrix:	Water
Associated Lab Samples:	30480057001, 30480057002, 30480057003, 30480057004, 30480057005, 30480057006, 30480057007, 30480057008, 30480057009, 30480057010, 30480057011, 30480057012, 30480057013, 30480057014, 30480057015, 30480057016, 30480057017, 30480057018, 30480057019, 30480057020		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0127 ± 0.0638 (0.168) C:102% T:NA	pCi/L	05/03/22 10:43	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

QC Batch:	497369	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30480057001, 30480057002, 30480057003, 30480057004, 30480057005, 30480057006, 30480057007, 30480057008, 30480057009, 30480057010, 30480057011, 30480057012, 30480057013, 30480057014

METHOD BLANK:	2407526	Matrix:	Water
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Associated Lab Samples: 30480057001, 30480057002, 30480057003, 30480057004, 30480057005, 30480057006, 30480057007, 30480057008, 30480057009, 30480057010, 30480057011, 30480057012, 30480057013, 30480057014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0537 ± 0.301 (0.691) C:76% T:81%	pCi/L	04/29/22 11:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1358
Pace Project No.: 30480057

QC Batch:	499045	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	30480057031, 30480057032, 30480057033, 30480057044, 30480057045, 30480057046, 30480057047, 30480057048, 30480057049, 30480057050, 30480057051, 30480057052, 30480057053, 30480057054, 30480057055, 30480057056, 30480057057, 30480057058, 30480057059, 30480057060		

METHOD BLANK:	2415372	Matrix:	Water
Associated Lab Samples:	30480057031, 30480057032, 30480057033, 30480057044, 30480057045, 30480057046, 30480057047, 30480057048, 30480057049, 30480057050, 30480057051, 30480057052, 30480057053, 30480057054, 30480057055, 30480057056, 30480057057, 30480057058, 30480057059, 30480057060		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0190 ± 0.0593 (0.149) C:100% T:NA	pCi/L	05/04/22 09:19	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1358
Pace Project No.: 30480057

QC Batch: 497374	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg	

Associated Lab Samples: 30480057031, 30480057032, 30480057033, 30480057038, 30480057039, 30480057040, 30480057041, 30480057042, 30480057043, 30480057044, 30480057045, 30480057046, 30480057047, 30480057048, 30480057049, 30480057050, 30480057051, 30480057052, 30480057053, 30480057054

METHOD BLANK: 2407529 Matrix: Water

Associated Lab Samples: 30480057031, 30480057032, 30480057033, 30480057038, 30480057039, 30480057040, 30480057041, 30480057042, 30480057043, 30480057044, 30480057045, 30480057046, 30480057047, 30480057048, 30480057049, 30480057050, 30480057051, 30480057052, 30480057053, 30480057054

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.287 ± 0.318 (0.665) C:85% T:81%	pCi/L	04/29/22 12:18	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

QC Batch: 499047

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30480057061, 30480057062, 30480057063, 30480057064

METHOD BLANK: 2415377

Matrix: Water

Associated Lab Samples: 30480057061, 30480057062, 30480057063, 30480057064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0174 ± 0.0623 (0.159) C:101% T:NA	pCi/L	05/04/22 13:15	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

QC Batch: 497370

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30480057015, 30480057016, 30480057017, 30480057018, 30480057019, 30480057020, 30480057021, 30480057022, 30480057023, 30480057024, 30480057025, 30480057026, 30480057027, 30480057028, 30480057029, 30480057030, 30480057034, 30480057035, 30480057036, 30480057037

METHOD BLANK: 2407527

Matrix: Water

Associated Lab Samples: 30480057015, 30480057016, 30480057017, 30480057018, 30480057019, 30480057020, 30480057021, 30480057022, 30480057023, 30480057024, 30480057025, 30480057026, 30480057027, 30480057028, 30480057029, 30480057030, 30480057034, 30480057035, 30480057036, 30480057037

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.306 ± 0.297 (0.607) C:80% T:92%	pCi/L	04/29/22 14:18	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

QC Batch: 499040

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30480057021, 30480057022, 30480057023, 30480057024, 30480057025, 30480057026, 30480057027, 30480057028, 30480057029, 30480057030, 30480057034, 30480057035, 30480057036, 30480057037, 30480057038, 30480057039, 30480057040, 30480057041, 30480057042, 30480057043

METHOD BLANK: 2415365

Matrix: Water

Associated Lab Samples: 30480057021, 30480057022, 30480057023, 30480057024, 30480057025, 30480057026, 30480057027, 30480057028, 30480057029, 30480057030, 30480057034, 30480057035, 30480057036, 30480057037, 30480057038, 30480057039, 30480057040, 30480057041, 30480057042, 30480057043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0125 ± 0.0630 (0.166) C:103% T:NA	pCi/L	05/03/22 13:47	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1358

Pace Project No.: 30480057

QC Batch:	497375	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30480057055, 30480057056, 30480057057, 30480057058, 30480057059, 30480057060, 30480057061, 30480057062, 30480057063, 30480057064

METHOD BLANK: 2407530 Matrix: Water

Associated Lab Samples: 30480057055, 30480057056, 30480057057, 30480057058, 30480057059, 30480057060, 30480057061, 30480057062, 30480057063, 30480057064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.174 ± 0.342 (0.754) C:74% T:82%	pCi/L	04/22/22 12:08	

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QUALIFIERS

Project: WMWGREAP_1358

Pace Project No.: 30480057

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1358
Pace Project No.: 30480057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30480057001	BC06406 MW-29	EPA 9315	499034		
30480057002	BC06407 MW-29 DUP	EPA 9315	499034		
30480057003	BC06408 FB-1	EPA 9315	499034		
30480057004	BC06409 MW-30	EPA 9315	499034		
30480057005	BC06410 MW-27	EPA 9315	499034		
30480057006	BC06411 MW-28	EPA 9315	499034		
30480057007	BC06412 MW-23	EPA 9315	499034		
30480057008	BC06413 MW-37H	EPA 9315	499034		
30480057009	BC06414 FB-2	EPA 9315	499034		
30480057010	BC06415 MW-31	EPA 9315	499034		
30480057011	BC06416 MW-33	EPA 9315	499034		
30480057012	BC06417 MW-32	EPA 9315	499034		
30480057013	BC06417 MW-32 MS	EPA 9315	499034		
30480057014	BC06417 MW-32 MSD	EPA 9315	499034		
30480057015	BC06418 MW-34HA	EPA 9315	499034		
30480057016	BC06419 MW-2	EPA 9315	499034		
30480057017	BC06420 MW-2 DUP	EPA 9315	499034		
30480057018	BC06421 MW-7	EPA 9315	499034		
30480057019	BC06422 FB-3	EPA 9315	499034		
30480057020	BC06423 MW-8	EPA 9315	499034		
30480057021	BC06501 MW-45H	EPA 9315	499040		
30480057022	BC06502 MW-45H DUP	EPA 9315	499040		
30480057023	BC06503 MW-15	EPA 9315	499040		
30480057024	BC06504 MW-36H	EPA 9315	499040		
30480057025	BC06504 MW-36H MS	EPA 9315	499040		
30480057026	BC06504 MW-36H MSD	EPA 9315	499040		
30480057027	BC06505 MW-38H	EPA 9315	499040		
30480057028	BC06506 MW-40H	EPA 9315	499040		
30480057029	BC06507 MW-9	EPA 9315	499040		
30480057030	BC06508 MW-9 DUP	EPA 9315	499040		
30480057031	BC06509 MW-25	EPA 9315	499045		
30480057032	BC06509 MW-25 MS	EPA 9315	499045		
30480057033	BC06509 MW-25 MSD	EPA 9315	499045		
30480057034	BC06510 MW-6	EPA 9315	499040		
30480057035	BC06511 MW-12	EPA 9315	499040		
30480057036	BC06512 MW-11	EPA 9315	499040		
30480057037	BC06513 MW-11 DUP	EPA 9315	499040		
30480057038	BC06514 MW-21	EPA 9315	499040		
30480057039	BC06515 MW-48H	EPA 9315	499040		
30480057040	BC06516 MW-49H	EPA 9315	499040		
30480057041	BC06754 MW-26	EPA 9315	499040		
30480057042	BC06755 MW-1	EPA 9315	499040		
30480057043	BC06756 MW-24	EPA 9315	499040		
30480057044	BC06757 MW-44H	EPA 9315	499045		
30480057045	BC06758 FB-4	EPA 9315	499045		
30480057046	BC06759 MW-14	EPA 9315	499045		
30480057047	BC06760 MW-10	EPA 9315	499045		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1358

Pace Project No.: 30480057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30480057048	BC06761 MW-17	EPA 9315	499045		
30480057049	BC06762 MW-5	EPA 9315	499045		
30480057050	BC06986 PZ-4	EPA 9315	499045		
30480057051	BC06987 MW-3	EPA 9315	499045		
30480057052	BC06988 MW-42H	EPA 9315	499045		
30480057053	BC06989 MW-43H	EPA 9315	499045		
30480057054	BC06990 MW-13	EPA 9315	499045		
30480057055	BC06991 FB-5	EPA 9315	499045		
30480057056	BC06992 MW-16	EPA 9315	499045		
30480057057	BC06993 MW-18	EPA 9315	499045		
30480057058	BC06994 EB-1	EPA 9315	499045		
30480057059	BC06995 MW-57H	EPA 9315	499045		
30480057060	BC06996 MW-54H	EPA 9315	499045		
30480057061	BC06997 MW-53H	EPA 9315	499047		
30480057062	BC06998 MW-39H	EPA 9315	499047		
30480057063	BC06999 MW-41H	EPA 9315	499047		
30480057064	BC07000 MW-35H	EPA 9315	499047		
30480057001	BC06406 MW-29	EPA 9320	497369		
30480057002	BC06407 MW-29 DUP	EPA 9320	497369		
30480057003	BC06408 FB-1	EPA 9320	497369		
30480057004	BC06409 MW-30	EPA 9320	497369		
30480057005	BC06410 MW-27	EPA 9320	497369		
30480057006	BC06411 MW-28	EPA 9320	497369		
30480057007	BC06412 MW-23	EPA 9320	497369		
30480057008	BC06413 MW-37H	EPA 9320	497369		
30480057009	BC06414 FB-2	EPA 9320	497369		
30480057010	BC06415 MW-31	EPA 9320	497369		
30480057011	BC06416 MW-33	EPA 9320	497369		
30480057012	BC06417 MW-32	EPA 9320	497369		
30480057013	BC06417 MW-32 MS	EPA 9320	497369		
30480057014	BC06417 MW-32 MSD	EPA 9320	497369		
30480057015	BC06418 MW-34HA	EPA 9320	497370		
30480057016	BC06419 MW-2	EPA 9320	497370		
30480057017	BC06420 MW-2 DUP	EPA 9320	497370		
30480057018	BC06421 MW-7	EPA 9320	497370		
30480057019	BC06422 FB-3	EPA 9320	497370		
30480057020	BC06423 MW-8	EPA 9320	497370		
30480057021	BC06501 MW-45H	EPA 9320	497370		
30480057022	BC06502 MW-45H DUP	EPA 9320	497370		
30480057023	BC06503 MW-15	EPA 9320	497370		
30480057024	BC06504 MW-36H	EPA 9320	497370		
30480057025	BC06504 MW-36H MS	EPA 9320	497370		
30480057026	BC06504 MW-36H MSD	EPA 9320	497370		
30480057027	BC06505 MW-38H	EPA 9320	497370		
30480057028	BC06506 MW-40H	EPA 9320	497370		
30480057029	BC06507 MW-9	EPA 9320	497370		
30480057030	BC06508 MW-9 DUP	EPA 9320	497370		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1358

Pace Project No.: 30480057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30480057031	BC06509 MW-25	EPA 9320	497374		
30480057032	BC06509 MW-25 MS	EPA 9320	497374		
30480057033	BC06509 MW-25 MSD	EPA 9320	497374		
30480057034	BC06510 MW-6	EPA 9320	497370		
30480057035	BC06511 MW-12	EPA 9320	497370		
30480057036	BC06512 MW-11	EPA 9320	497370		
30480057037	BC06513 MW-11 DUP	EPA 9320	497370		
30480057038	BC06514 MW-21	EPA 9320	497374		
30480057039	BC06515 MW-48H	EPA 9320	497374		
30480057040	BC06516 MW-49H	EPA 9320	497374		
30480057041	BC06754 MW-26	EPA 9320	497374		
30480057042	BC06755 MW-1	EPA 9320	497374		
30480057043	BC06756 MW-24	EPA 9320	497374		
30480057044	BC06757 MW-44H	EPA 9320	497374		
30480057045	BC06758 FB-4	EPA 9320	497374		
30480057046	BC06759 MW-14	EPA 9320	497374		
30480057047	BC06760 MW-10	EPA 9320	497374		
30480057048	BC06761 MW-17	EPA 9320	497374		
30480057049	BC06762 MW-5	EPA 9320	497374		
30480057050	BC06986 PZ-4	EPA 9320	497374		
30480057051	BC06987 MW-3	EPA 9320	497374		
30480057052	BC06988 MW-42H	EPA 9320	497374		
30480057053	BC06989 MW-43H	EPA 9320	497374		
30480057054	BC06990 MW-13	EPA 9320	497374		
30480057055	BC06991 FB-5	EPA 9320	497375		
30480057056	BC06992 MW-16	EPA 9320	497375		
30480057057	BC06993 MW-18	EPA 9320	497375		
30480057058	BC06994 EB-1	EPA 9320	497375		
30480057059	BC06995 MW-57H	EPA 9320	497375		
30480057060	BC06996 MW-54H	EPA 9320	497375		
30480057061	BC06997 MW-53H	EPA 9320	497375		
30480057062	BC06998 MW-39H	EPA 9320	497375		
30480057063	BC06999 MW-41H	EPA 9320	497375		
30480057064	BC07000 MW-35H	EPA 9320	497375		
30480057001	BC06406 MW-29	Total Radium Calculation	501806		
30480057002	BC06407 MW-29 DUP	Total Radium Calculation	501806		
30480057003	BC06408 FB-1	Total Radium Calculation	501806		
30480057004	BC06409 MW-30	Total Radium Calculation	501806		
30480057005	BC06410 MW-27	Total Radium Calculation	501806		
30480057006	BC06411 MW-28	Total Radium Calculation	501806		
30480057007	BC06412 MW-23	Total Radium Calculation	501806		
30480057008	BC06413 MW-37H	Total Radium Calculation	501806		
30480057009	BC06414 FB-2	Total Radium Calculation	501806		
30480057010	BC06415 MW-31	Total Radium Calculation	501806		
30480057011	BC06416 MW-33	Total Radium Calculation	501806		
30480057012	BC06417 MW-32	Total Radium Calculation	501806		
30480057015	BC06418 MW-34HA	Total Radium Calculation	501806		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1358
Pace Project No.: 30480057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30480057016	BC06419 MW-2	Total Radium Calculation	501806		
30480057017	BC06420 MW-2 DUP	Total Radium Calculation	501806		
30480057018	BC06421 MW-7	Total Radium Calculation	501806		
30480057019	BC06422 FB-3	Total Radium Calculation	501806		
30480057020	BC06423 MW-8	Total Radium Calculation	501806		
30480057021	BC06501 MW-45H	Total Radium Calculation	502489		
30480057022	BC06502 MW-45H DUP	Total Radium Calculation	502489		
30480057023	BC06503 MW-15	Total Radium Calculation	502489		
30480057024	BC06504 MW-36H	Total Radium Calculation	502489		
30480057027	BC06505 MW-38H	Total Radium Calculation	502489		
30480057028	BC06506 MW-40H	Total Radium Calculation	502489		
30480057029	BC06507 MW-9	Total Radium Calculation	502489		
30480057030	BC06508 MW-9 DUP	Total Radium Calculation	502489		
30480057031	BC06509 MW-25	Total Radium Calculation	502488		
30480057034	BC06510 MW-6	Total Radium Calculation	502489		
30480057035	BC06511 MW-12	Total Radium Calculation	502489		
30480057036	BC06512 MW-11	Total Radium Calculation	502489		
30480057037	BC06513 MW-11 DUP	Total Radium Calculation	502489		
30480057038	BC06514 MW-21	Total Radium Calculation	502489		
30480057039	BC06515 MW-48H	Total Radium Calculation	502489		
30480057040	BC06516 MW-49H	Total Radium Calculation	502489		
30480057041	BC06754 MW-26	Total Radium Calculation	502489		
30480057042	BC06755 MW-1	Total Radium Calculation	502489		
30480057043	BC06756 MW-24	Total Radium Calculation	502489		
30480057044	BC06757 MW-44H	Total Radium Calculation	502488		
30480057045	BC06758 FB-4	Total Radium Calculation	502488		
30480057046	BC06759 MW-14	Total Radium Calculation	502488		
30480057047	BC06760 MW-10	Total Radium Calculation	502488		
30480057048	BC06761 MW-17	Total Radium Calculation	502488		
30480057049	BC06762 MW-5	Total Radium Calculation	502488		
30480057050	BC06986 PZ-4	Total Radium Calculation	502488		
30480057051	BC06987 MW-3	Total Radium Calculation	502488		
30480057052	BC06988 MW-42H	Total Radium Calculation	502488		
30480057053	BC06989 MW-43H	Total Radium Calculation	502488		
30480057054	BC06990 MW-13	Total Radium Calculation	502488		
30480057055	BC06991 FB-5	Total Radium Calculation	502488		
30480057056	BC06992 MW-16	Total Radium Calculation	502488		
30480057057	BC06993 MW-18	Total Radium Calculation	502488		
30480057058	BC06994 EB-1	Total Radium Calculation	502488		
30480057059	BC06995 MW-57H	Total Radium Calculation	502488		
30480057060	BC06996 MW-54H	Total Radium Calculation	502488		
30480057061	BC06997 MW-53H	Total Radium Calculation	503153		
30480057062	BC06998 MW-39H	Total Radium Calculation	503153		
30480057063	BC06999 MW-41H	Total Radium Calculation	503153		
30480057064	BC07000 MW-35H	Total Radium Calculation	503153		

REPORT OF LABORATORY ANALYSIS

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WO#: 30480057
 CH/ The C
 30480057

Document
 be completed accurately.

Section A

Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkiff@southernco.com
 Phone: 205-864-6197 Fax:
 Requested Due Date: Normal

Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: COR
 Project Name: Plant Greene County Ash Pond
 Project Number: WMMWGREAP_1358
 Pace Project Manager: Skyler Richmond
 Pace Profile #: 16788

Regulatory Agency
 AL

State / Location
 AL

Section B

Requested Analysis Filtered (Y/N)

ITEM #	DESCRIPTION	STATION NAME LOCATION_CODE	SITE NAME FACILITY_ID	SAMPLE TYPE (G=GRAB C=COMP)	FIELD FILTERED	MATRIX CODE	START DATE	START TIME	# OF CONTAINERS	UNPRESERVED	NaOH+ZnAcetate	HNO3	PRESERVATIVES	ANALYSES TEST	EPA 9315	EPA 9320	TOTAL RADIUM SUM	TOTAL SULFIDE	RESIDUAL CHLORINE (Y/N)	
1	BC08406	MW-29	APCO-GC-AP-MW-29	APCO_GreeneCounty_AshPond		GW	3/28/2022	11:52	1			X		X	X	X				001
2	BC08407	MW-29 DUP	APCO-GC-AP-MW-29	APCO_GreeneCounty_AshPond	X	GW	3/28/2022	11:52	1			X		X	X	X				002
3	BC08408	FB-1	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond		GW	3/28/2022	12:22	1			X		X	X	X				003
4	BC08409	MW-30	APCO-GC-AP-MW-30	APCO_GreeneCounty_AshPond		GW	3/28/2022	13:25	1			X		X	X	X				004
5	BC08410	MW-27	APCO-GC-AP-MW-27	APCO_GreeneCounty_AshPond		GW	3/28/2022	14:14	1			X		X	X	X				005
6	BC08411	MW-28	APCO-GC-AP-MW-28	APCO_GreeneCounty_AshPond		GW	3/28/2022	15:03	1			X		X	X	X				006
7	BC08412	MW-23	APCO-GC-AP-MW-23	APCO_GreeneCounty_AshPond		GW	3/28/2022	16:18	1			X		X	X	X				007
8	BC08413	MW-37H	APCO-GC-AP-MW-37H	APCO_GreeneCounty_AshPond		GW	3/29/2022	9:07	1			X		X	X	X				008
9	BC08414	FB-2	APCO-GC-AP-FB-02	APCO_GreeneCounty_AshPond		GW	3/29/2022	9:15	1			X		X	X	X				009
10																				
11																				
12																				

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Laura Midkiff APC GTL DATE: 4/7/2022 TIME: 16:00

ACCEPTED BY / AFFILIATION: *Anthony Goggins* DATE: 4/21/22 TIME: 10:25

TEMP IN C

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Anthony Goggins
 SIGNATURE of SAMPLER: *Anthony Goggins*

DATE SIGNED:

30480057

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company	Report To: Laura Midkiff	Report To: Laura Midkiff	Company Name: Alabama Power Co.	Attention: Laura Midkiff	
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Catton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8 CCR	Address: 744 Highway 87 GSC Bldg #8 CCR	Company Name: Alabama Power Co.	
Email To: lmidkiff@southerniso.com	Purchase Order #: APC10755638	Project Name: Plant Greene County Ash Pond	Project Name: Plant Greene County Ash Pond	Address: 744 Highway 87 GSC Bldg #8 CCR	
Phone: 205-664-6197 Fax	Project Number: WMMWGREP_1358	Requested Due Date: Normal	Requested Due Date: Normal	Address: 744 Highway 87 GSC Bldg #8 CCR	
Requested Due Date: Normal	Project Number: WMMWGREP_1358	Requested Due Date: Normal	Requested Due Date: Normal	Address: 744 Highway 87 GSC Bldg #8 CCR	
Requested Due Date: Normal	Project Number: WMMWGREP_1358	Requested Due Date: Normal	Requested Due Date: Normal	Address: 744 Highway 87 GSC Bldg #8 CCR	

ITEM #	DESCRIPTION	STATION NAME LOCATION_CODE	SITE NAME FACILITY_ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	# OF CONTAINERS	Requested Analysis Filtered (Y/N)				DATE	TIME	SAMPLE CONDITIONS		
								Preservatives	Y/N	Analyses Test	Y/N					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		
1	BC08415	APCO-GC-AP-MW-31	APCO_GreeneCounty_AshPond	GW	G	3/28/2022	12:31	1								
2	BC08416	APCO-GC-AP-MW-33	APCO_GreeneCounty_AshPond	GW	G	3/28/2022	13:28	1								
3	BC08417	APCO-GC-AP-MW-32	APCO_GreeneCounty_AshPond	GW	G	3/28/2022	14:24	3								
4	BC08418	APCO-GC-AP-MW-34HA	APCO_GreeneCounty_AshPond	GW	G	3/28/2022	15:35	1								
5	BC08419	APCO-GC-AP-MW-2	APCO_GreeneCounty_AshPond	GW	G	3/28/2022	16:31	1								
6	BC08420	APCO-GC-AP-MW-2 DUP	APCO_GreeneCounty_AshPond	GW	G	3/28/2022	16:31	1								
7	BC08421	APCO-GC-AP-MW-7	APCO_GreeneCounty_AshPond	GW	G	3/29/2022	8:48	1								
8	BC08422	APCO-GC-AP-FB-03	APCO_GreeneCounty_AshPond	GW	G	3/29/2022	9:05	1								
9	BC08423	APCO-GC-AP-MW-8	APCO_GreeneCounty_AshPond	GW	G	3/29/2022	9:43	1								
10																
11																
12																
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		
		Laura Midkiff / APC GTL		4/7/2022		16:00		Rufy Rosta		4/12/22		10:25				

SAMPLER NAME AND SIGNATURE		Dallas Gentry	
PRINT NAME of SAMPLER:		DATE Signed:	
SIGNATURE of SAMPLER:			
TEMP in C			
Received on			
Custody			
Sealed			
Cooler			
Samples			
Intact			

30480057

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkiff@southernco.com
 Phone: 205-664-6197 Fax:
 Requested Due Date: Normal

Section B
Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC1075638
 Project Name: Plant Greene County Ash Pond
 Project Number: WMWGREAT_1358

Section C
Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Skyler Richmond
 Pace Profile #: 16788

Regulatory Agency: AL
 State / Location: AL

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	# OF CONTAINERS	Requested Analysis Filtered (Y/N)		DATE	TIME	SAMPLE CONDITIONS		
											Preservatives	Analyses Test					
		START															
		DATE	TIME														
1	BC06501	MW-45H	APCO-GC-AP-MW-45H	APCO_GreeneCounty_AshPond			GW	G	3/29/2022	14:28		X	X	X			
2	BC06502	MW-45H DUP	APCO-GC-AP-MW-45H	APCO_GreeneCounty_AshPond	X		GW	G	3/29/2022	14:28		X	X	X			
3	BC06503	MW-15	APCO-GC-AP-MW-15	APCO_GreeneCounty_AshPond			GW	G	3/29/2022	16:00		X	X	X			
4	BC06504	MW-36H	APCO-GC-AP-MW-36H	APCO_GreeneCounty_AshPond	X		GW	G	3/30/2022	9:23		X	X	X			
5	BC06505	MW-38H	APCO-GC-AP-MW-38H	APCO_GreeneCounty_AshPond			GW	G	3/30/2022	10:38		X	X	X			
6	BC06506	MW-40H	APCO-GC-AP-MW-40H	APCO_GreeneCounty_AshPond			GW	G	3/30/2022	11:52		X	X	X			
7																	
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS
 Laura Midkiff/ APC GTL

RELINQUISHED BY / AFFILIATION
 DATE: 4/7/2022 TIME: 16:00
 ACCEPTED BY / AFFILIATION: *Ruby Porter*

DATE: 4/16/22 **TIME**: 10:25

TEMP in C

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: TJ Daugherty
 SIGNATURE of SAMPLER: *TJ Daugherty*
 DATE Signed:

Received on (Y/N)
 Sealed (Y/N)
 Cooled (Y/N)
 Samples (Y/N)
 Interact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A	Section B	Section C
Required Client Information: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Callera, AL 35040 Email To: lbmidkiff@southemco.com Phone: 205-664-6197 Fax: Requested Due Date: Normal	Required Project Information: Report To: Laura Midkiff Copy To: Brooke Caton & Renee Jernigan Purchase Order #: APC10755638 Project Name: Plant Greene County Ash Pond Project Number: VMWVGREAP_1358	Invoice Information: Attention: Laura Midkiff Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 GCR Skyler Richmond Pace Profile #: 16786 State / Location: AL
Regulatory Agency		

ITEM #	DESCRIPTION	Station Name Location Code	Site Name Facility ID	Sample Duplicate	Matrix Spike/Matrix Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE TIME	Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)		
										# OF CONTAINERS	Unpreserved	NaOH+ZnAcetate	HNO3	Preservatives	Analytes Test		EPA 9315	EPA 9320
1	MW-8	APCO-GC-AP-MW-8	APCO_GreeneCounty_AshPond				GW	G	3/29/2022 10:56	1			X					029
2	MW-9 DUP	APCO-GC-AP-MW-9	APCO_GreeneCounty_AshPond	X			GW	G	3/29/2022 10:56	1			X					030
3	MW-25	APCO-GC-AP-MW-25	APCO_GreeneCounty_AshPond		X		GW	G	3/29/2022 12:16	3			X					21,037,033
4	MW-6	APCO-GC-AP-MW-6	APCO_GreeneCounty_AshPond				GW	G	3/29/2022 13:46	1			X					034
5	MW-12	APCO-GC-AP-MW-12	APCO_GreeneCounty_AshPond				GW	G	3/29/2022 16:00	1			X					035
6	MW-11	APCO-GC-AP-MW-11	APCO_GreeneCounty_AshPond				GW	G	3/30/2022 8:53	1			X					036
7	MW-11 DUP	APCO-GC-AP-MW-11	APCO_GreeneCounty_AshPond	X			GW	G	3/30/2022 8:53	1			X					037
8	MW-21	APCO-GC-AP-MW-21	APCO_GreeneCounty_AshPond				GW	G	3/30/2022 10:00	1			X					038
9	MW-48H	APCO-GC-AP-MW-48H	APCO_GreeneCounty_AshPond				GW	G	3/30/2022 11:17	1			X					039
10	MW-49H	APCO-GC-AP-MW-49H	APCO_GreeneCounty_AshPond				GW	G	3/30/2022 12:11	1			X					040
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Laura Midkiff / APC GTL	4/7/2022	16:00	<i>[Signature]</i>	4/12/22	10:25

SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER:	DATE Signed:
	Dallas Gentry	
	SIGNATURE of SAMPLER:	

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkiff@southernco.com
 Phone: 205-664-6197 | Fax:
 Requested Due Date: Normal

Section B
Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC10755638
 Project Name: Plant Greene County Ash Pond
 Project Number: VMWGREAP_1358

Section C
Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Skyler Richmond
 Pace Profile #: 16788

Regulatory Agency: AL
 State / Location: AL

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Matrix Spike/Duplicate	Sample Duplicate	Field Filtered	Matrix Code (G=GRAB C=COMP)	COLLECTED	# OF CONTAINERS	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)			
										Preservatives	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum		Total Sulfide		
1	BC06754	MW-26	APCO-GC-AP-MW-26	APCO_GreeneCounty_AshPond			GW	G	1	Unpreserved	NaOH+ZnAcetate	HNO3	X	X	X	X		
2	BC06755	MW-1	APCO-GC-AP-MW-1	APCO_GreeneCounty_AshPond			GW	G	1	Unpreserved	NaOH+ZnAcetate	HNO3	X	X	X	X		
3	BC06756	MW-24	APCO-GC-AP-MW-24	APCO_GreeneCounty_AshPond			GW	G	1	Unpreserved	NaOH+ZnAcetate	HNO3	X	X	X	X		
4	BC06757	MW-44H	APCO-GC-AP-MW-44H	APCO_GreeneCounty_AshPond			GW	G	1	Unpreserved	NaOH+ZnAcetate	HNO3	X	X	X	X		
5	BC06758	FB-4	APCO-GC-AP-FB-04	APCO_GreeneCounty_AshPond			GW	G	1	Unpreserved	NaOH+ZnAcetate	HNO3	X	X	X	X		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Laura Midkiff APC GTL	4/7/2022	16:00	<i>Laura Midkiff</i>	4/12/22	10:25	

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: Dallas Gentry
 SIGNATURE of SAMPLER: *Dallas Gentry*
 DATE Signed: 4/12/22

3048057

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkiff@southemco.com
 Phone: 205-864-6197 Fax:
 Requested Due Date: Normal

Section B
Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jemigan
 Purchase Order #: APC1075638
 Project Name: Plant Greene County Ash Pond
 Project Number: WMWGREAP_1358

Section C
Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Skyler Richmond
 Pace Profile #: 16788
 State / Location: AL

Regulatory Agency

ITEM #	Description	Station Name Location Code	Site Name Facility_ID	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	# OF CONTAINERS	Requested Analysis Filtered (Y/N)				DATE	TIME	SAMPLE CONDITIONS
				START DATE	TIME						Preservatives	Unpreserved	NaOH+ZnAcetate	HNO3			
1	BC06759	APCO-GC-AP-MW-14	APCO_GreeneCounty_AshPond	4/4/2022	12:28	G			GW	1							
2	BC06760	APCO-GC-AP-MW-10	APCO_GreeneCounty_AshPond	4/4/2022	14:40	G			GW	1							
3	BC06761	APCO-GC-AP-MW-17	APCO_GreeneCounty_AshPond	4/4/2022	16:18	G			GW	1							
4	BC06762	APCO-GC-AP-MW-5	APCO_GreeneCounty_AshPond	4/4/2022	18:31	G			GW	1							
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION: Laura Midkiff/ APC GTL DATE: 4/7/2022 TIME: 16:00 ACCEPTED BY / AFFILIATION: <i>Robert M. Taylor</i> DATE: 4/12/22 TIME: 1025																	

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, /, -)
 Sample Ids must be unique

TEMP IN C

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: T.J. Daugherty
 SIGNATURE of SAMPLER: *T.J. Daugherty*
 DATE Signed: *4/12/22*

Received on
 Ice (Y/N)
 Custody (Y/N)
 Sealed (Y/N)
 Cooler (Y/N)
 Samples (Y/N)
 Intact (Y/N)

MJD
4-12-22

36480057

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company	Report To: Laura Midkiff	Attention: Laura Midkiff	Company Name: Alabama Power Co.	Company Name: Alabama Power Co.	
Address: 744 Highway 87 GSC Bldg #8	Copy To: Brooke Caton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	
Calera, AL 35040		Purchase Order #: APC10755638	CCR		
Email To: lbmidkiff@southernco.com		Project Name: Plant Greene County Ash Pond	Skylar Richmond		
Phone: 205-664-6197 Fax:		Project Number: VMWGREAP_1358	16783		
Requested Due Date: Normal					

ITEM #	Description	Station Name Location_Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Duplicate	Field Filtered	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Requested Analysis Filtered (Y/N)			Residual Chlorine (Y/N)		
								DATE	TIME		Preservatives	Y/N	EPA 9315		EPA 9320	Total Sulfide
1	BC06986	PZ-4	APCO-GC-AP-PZ-4	APCO_GreeneCounty_AshPond			GW G	4/5/2022	17:00	1	X	X	X	X	050	
2	BC06987	MW-3	APCO-GC-AP-MW-3	APCO_GreeneCounty_AshPond			GW G	4/5/2022	18:10	1	X	X	X	X	051	
3	BC06988	MW-42H	APCO-GC-AP-MW-42H	APCO_GreeneCounty_AshPond			GW G	4/6/2022	8:33	1	X	X	X	X	052	
4	BC06989	MW-43H	APCO-GC-AP-MW-43H	APCO_GreeneCounty_AshPond			GW G	4/6/2022	9:38	1	X	X	X	X	053	
5	BC06990	MW-13	APCO-GC-AP-MW-13	APCO_GreeneCounty_AshPond			GW G	4/6/2022	11:10	1	X	X	X	X	054	
6	BC06991	FB-5	APCO-GC-AP-FB-05	APCO_GreeneCounty_AshPond			GW G	4/6/2022	11:35	1	X	X	X	X	055	
7	BC06992	MW-16	APCO-GC-AP-MW-16	APCO_GreeneCounty_AshPond			GW G	4/6/2022	12:07	1	X	X	X	X	056	
8	BC06993	MW-18	APCO-GC-AP-MW-18	APCO_GreeneCounty_AshPond			GW G	4/6/2022	15:10	1	X	X	X	X	057	
9	BC06994	EB-1	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond			GW G	4/6/2022	15:30	1	X	X	X	X	058	
10																
11																
12																

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
		Laura Midkiff APC GTL		4/7/2022		16:00				4/12/22		1025			
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: TJ Daugherty SIGNATURE of SAMPLER:															
Received on _____ Ice (Y/N) _____ Custody (Y/N) _____ Sealed (Y/N) _____ Cooler (Y/N) _____ Samples (Y/N) _____ Interact (Y/N) _____															

3 6486057

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Alabama Power Company	Report To: Laura Midkiff	Copy To: Brooke Caton & Renee Jernigan	Attention: Laura Midkiff	Company Name: Alabama Power Co.	Regulatory Agency:
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040				Address: 744 Highway 87 GSC Bldg #8	State / Location:
Email To: lbmidkiff@southernco.com	Purchase Order #: APC10755638	Project Name: Plant Greene County Ash Pond	Peace Project Manager: Skyler Richmond	CCR	AL
Phone: 205-664-6197 Fax	Project Number: WVMWGREP_1358			Peace Quote:	
Requested Due Date: Normal				Peace Profile #:	16788

ITEM #	Description	Station Name Location Code	Site Name Facility_ID	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	Matrix Spike/Matrix Spike Duplicate	Field Filtered	Matrix Code	# OF CONTAINERS	Unpreserved	NaOH+ZnAcetate	HNO3	Preservatives	Analyses Test Y/N	Requested Analysis Filtered (Y/N)		Total Radium Sum	Total Sulphide	Residual Chrome (Y/N)
				DATE	TIME											EPA 9315	EPA 9320			
1	MW-57H	APCO-GC-AP-MW-57H	APCO_GreeneCounty_AshPond	4/5/2022	16:47	G			GW	1					X	X	X			
2	MW-54H	APCO-GC-AP-MW-54H	APCO_GreeneCounty_AshPond	4/5/2022	17:50	G			GW	1					X	X	X			
3	MW-53H	APCO-GC-AP-MW-53H	APCO_GreeneCounty_AshPond	4/6/2022	8:10	G			GW	1					X	X	X			
4	MW-39H	APCO-GC-AP-MW-39H	APCO_GreeneCounty_AshPond	4/6/2022	9:27	G			GW	1					X	X	X			
5	MW-41H	APCO-GC-AP-MW-41H	APCO_GreeneCounty_AshPond	4/6/2022	11:58	G			GW	1					X	X	X			
6	MW-35H	APCO-GC-AP-MW-35H	APCO_GreeneCounty_AshPond	4/6/2022	15:19	G			GW	1					X	X	X			
7																				
8																				
9																				
10																				
11																				
12																				
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS					
		Laura Midkiff/ APC GTL			4/7/2022		16:00		<i>[Signature]</i>		4/12/22		1025							

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	
Dallas Gentry	
DATE Signed:	
TEMP In C	
Received on	
Ice (Y/N)	
Custody Sealed (Y/N)	
Cooler (Y/N)	
Samples Intact (Y/N)	

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Project # 30480057

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 570165848691

Label	<u>MJS</u>
LIMS Login	<u>MJS</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and Initials of person examining contents: <u>MJS 4-13-02</u>
	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/	/		4. <u>No Signature</u>
Sample Labels match COC:	/	/		5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/		/	16. <u>MJS 4-13-02</u> <u>PH 2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				
All containers meet method preservation requirements.	/			Initial when completed: <u>MJS</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed: <u>MJS</u> Date: <u>4-13-02</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 4/26/2022
Worklist: 66270
Matrix: DW

Method Blank Assessment	
MB Sample ID	2415357
MB Concentration:	0.013
M/B Counting Uncertainty:	0.064
MB MDC:	0.168
MB Numerical Performance Indicator:	0.39
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS66270	LCSD66270
Count Date:	5/3/2022	5/3/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.027	24.027
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.501
Target Conc. (pCi/L, g, F):	4.800	4.792
Uncertainty (Calculated):	0.058	0.058
Result (pCi/L, g, F):	4.715	4.178
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.478	0.441
Numerical Performance Indicator:	-0.35	-2.70
Percent Recovery:	98.23%	87.19%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS66270	LCSD66270
Sample I.D.:	4.715	4.715
Duplicate Sample I.D.:	0.478	0.478
Sample Result (pCi/L, g, F):	4.178	4.178
Sample Duplicate Result (pCi/L, g, F):	0.441	0.441
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	NO	NO
Are sample and/or duplicate results below RL?	1.616	1.616
Duplicate Numerical Performance Indicator:	11.90%	11.90%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	N/A	N/A
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	25%	25%
% RPD Limit:		

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/28/2022	
Sample I.D.:	30480057012	
Sample MS I.D.:	30480057013	
Sample MSD I.D.:	30480057014	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.029	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.321	
MS Target Conc. (pCi/L, g, F):	14.977	
MSD Aliquot (L, g, F):	0.316	
MSD Target Conc. (pCi/L, g, F):	15.190	
MS Spike Uncertainty (calculated):	0.180	
MSD Spike Uncertainty (calculated):	0.182	
Sample Result:	0.143	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.164	
Sample Matrix Spike Result:	14.489	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.043	
Sample Matrix Spike Duplicate Result:	14.584	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.071	
MS Numerical Performance Indicator:	-1.155	
MSD Numerical Performance Indicator:	-1.337	
MS Percent Recovery:	95.79%	
MSD Percent Recovery:	95.07%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:	30480057012	
Sample MS I.D.:	30480057013	
Sample MSD I.D.:	30480057014	
Sample Matrix Spike Result:	14.489	
Sample Matrix Spike Duplicate Result:	14.584	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.043	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.071	
Duplicate Numerical Performance Indicator:	-0.125	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	0.75%	
MS/MSD Duplicate Status vs Numerical Indicator:	N/A	
MS/MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature and date: 5/12/2022

Handwritten date: 5/13/22

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 4/22/2022
Worklist: 66133
Matrix: WT

Method Blank Assessment	
MB Sample ID	2407526
MB concentration:	0.054
M/B 2 Sigma CSU:	0.301
MB MDC:	0.691
MB Numerical Performance Indicator:	0.35
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	N
LCS66133	LCS66133
Count Date:	4/29/2022
Spike I.D.:	22-016
Decay Corrected Spike Concentration (pCi/mL):	35.933
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.820
Target Conc. (pCi/L, g, F):	4.384
Uncertainty (Calculated):	0.215
Result (pCi/L, g, F):	2.842
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.720
Numerical Performance Indicator:	-4.02
Percent Recovery:	64.83%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	See Below #
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	
Sample Collection Date:	3/23/2022
Sample I.D.:	30476472001
Sample MS I.D.:	30476472002
Sample MSD I.D.:	30476472003
Spike I.D.:	22-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.376
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.819
MS Target Conc. (pCi/L, g, F):	8.878
MSD Aliquot (L, g, F):	0.801
MSD Target Conc. (pCi/L, g, F):	9.083
MS Spike Uncertainty (calculated):	0.435
MSD Spike Uncertainty (calculated):	0.445
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.662
Sample Matrix Spike Result:	0.400
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	9.075
Sample Matrix Spike Result:	1.845
Sample Matrix Spike Duplicate Result:	9.982
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.995
MS Numerical Performance Indicator:	-0.470
MSD Numerical Performance Indicator:	0.223
MS Percent Recovery:	94.76%
MSD Percent Recovery:	102.61%
MS Status vs Numerical Indicator:	Pass
MSD Status vs Numerical Indicator:	Pass
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	Pass
MS/MSD Upper % Recovery Limits:	135%
MS/MSD Lower % Recovery Limits:	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30480057012
Sample MS I.D.:	30480057013
Sample MSD I.D.:	30480057014
Spike I.D.:	22-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.376
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.819
MS Target Conc. (pCi/L, g, F):	8.878
MSD Aliquot (L, g, F):	0.801
MSD Target Conc. (pCi/L, g, F):	9.083
MS Spike Uncertainty (calculated):	0.435
MSD Spike Uncertainty (calculated):	0.445
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.662
Sample Matrix Spike Result:	0.400
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	9.075
Sample Matrix Spike Duplicate Result:	1.845
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	9.982
MS Numerical Performance Indicator:	1.995
MSD Numerical Performance Indicator:	-0.470
MS Percent Recovery:	0.223
MSD Percent Recovery:	94.76%
MS Status vs Numerical Indicator:	102.61%
MSD Status vs Numerical Indicator:	Pass
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	Pass
MS/MSD Upper % Recovery Limits:	Pass
MS/MSD Lower % Recovery Limits:	135%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten notes:
OK
5/12/22
VAL

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JSM
Date: 4/22/2022
Worklist: 66134
Matrix: WT

Method Blank Assessment	
MB Sample ID	2407527
MB concentration:	0.306
MB 2 Sigma CSU:	0.297
MB MDC:	0.607
MB Numerical Performance Indicator:	2.02
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	N
LCS66134	LCS066134
Count Date:	4/29/2022
Spike I.D.:	22-016
Decay Corrected Spike Concentration (pCi/mL):	35.931
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.813
Target Conc. (pCi/L, g, F):	4.422
Uncertainty (Calculated):	0.217
Result (pCi/L, g, F):	3.860
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.925
Numerical Performance Indicator:	-1.16
Percent Recovery:	87.28%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

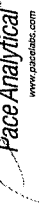
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VAR 5/12/22

Sample Matrix Spike Control Assessment	
Sample Collection Date:	3/30/2022
Sample I.D.:	30480057024
Sample MS I.D.:	30480057025
Sample MSD I.D.:	30480057026
Spike I.D.:	22-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.292
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.802
MS Target Conc. (pCi/L, g, F):	9.055
MSD Aliquot (L, g, F):	0.799
MSD Target Conc. (pCi/L, g, F):	9.082
MS Spike Uncertainty (calculated):	0.444
MSD Spike Uncertainty (calculated):	0.445
Sample Result:	0.125
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.367
Sample Matrix Spike Result:	7.566
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.562
Sample Matrix Spike Duplicate Result:	8.411
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.705
MS Numerical Performance Indicator:	-1.900
MSD Numerical Performance Indicator:	-0.867
MS Percent Recovery:	82.18%
MSD Percent Recovery:	91.23%
MS Status vs Numerical Indicator:	Pass
MSD Status vs Numerical Indicator:	Pass
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	Pass
MS/MSD Upper % Recovery Limits:	135%
MS/MSD Lower % Recovery Limits:	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30480057024
Sample MS I.D.:	30480057025
Sample MSD I.D.:	30480057026
Sample Matrix Spike Result:	7.566
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.562
Sample Matrix Spike Duplicate Result:	8.411
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.705
Duplicate Numerical Performance Indicator:	-0.716
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	10.44%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Quality Control Sample Performance Assessment



Analyst: *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226
Analyst: JC2
Date: 4/26/2022
Worklist: 66274
Matrix: DW

Method Blank Assessment	
MB Sample ID	2415365
MB Concentration:	0.013
MB Counting Uncertainty:	0.063
MB MDC:	0.166
MB Numerical Performance Indicator:	0.39
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS66274	Y
Count Date:	5/3/2022	LCS66274
Spike I.D.:	19-033	5/3/2022
Decay Corrected Spike Concentration (pCi/mL):	24.027	24.027
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.504
Target Conc. (pCi/L, g, F):	4.780	4.771
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.087	4.550
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.497	0.465
Numerical Performance Indicator:	1.20	-0.92
Percent Recovery:	106.41%	95.36%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS66274
Duplicate Sample I.D.:	LCS66274
Sample Result (pCi/L, g, F):	5.087
Sample Duplicate Result (pCi/L, g, F):	0.497
Sample Result Counting Uncertainty (pCi/L, g, F):	4.550
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.465
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.544
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.93%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/30/2022	
Sample I.D.:	30480057024	
Sample MS I.D.:	30480057025	
Sample MSD I.D.:	30480057026	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.028	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.298	
MS Target Conc. (pCi/L, g, F):	16.151	
MSD Aliquot (L, g, F):	0.306	
MSD Target Conc. (pCi/L, g, F):	15.682	
MS Spike Uncertainty (calculated):	0.194	
MSD Spike Uncertainty (calculated):	0.188	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.049	
Sample Matrix Spike Result:	0.118	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	16.764	
Matrix Spike Duplicate Result:	1.160	
Sample Matrix Spike Duplicate Result:	14.103	
MS Numerical Performance Indicator:	1.055	
MSD Numerical Performance Indicator:	0.934	
MS Percent Recovery:	-2.961	
MSD Percent Recovery:	103.49%	
MS Status vs Numerical Indicator:	89.62%	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	N/A	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30480057024
Sample MS I.D.:	30480057025
Sample MSD I.D.:	30480057026
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	16.764
Sample Matrix Spike Duplicate Result:	1.160
Sample Matrix Spike Duplicate Result:	14.103
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.055
Duplicate Numerical Performance Indicator:	3.325
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	14.37%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature: DW 5/15/2022

Handwritten signature: AMS/SL/22

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 4/22/2022
Worklist: 66135
Matrix: WT



Method Blank Assessment	
MB Sample ID	2407529
MB Concentration:	0.287
MB 2 Sigma CSU:	0.318
MB MDC:	0.665
MB Numerical Performance Indicator:	1.77
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCSD66135	LCSD66135
Count Date:	4/29/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.933	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.813	
Target Conc. (pCi/L, g, F):	4.422	
Uncertainty (Calculated):	0.217	
Result (pCi/L, g, F):	4.764	
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.046	
Numerical Performance Indicator:	0.63	
Percent Recovery:	107.72%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/29/2022	
Sample I.D.:	30480057031	
Sample MS I.D.:	30480057032	
Sample MSD I.D.:	30480057033	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.302	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.806	
MS Target Conc. (pCi/L, g, F):	9.011	
MSD Aliquot (L, g, F):	0.805	
MSD Target Conc. (pCi/L, g, F):	9.017	
MS Spike Uncertainty (calculated):	0.442	
MSD Spike Uncertainty (calculated):	0.442	
Sample Result:	0.344	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.377	
Sample Matrix Spike Result:	8.481	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.715	
Sample Matrix Spike Duplicate Result:	9.114	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.829	
MS Numerical Performance Indicator:	-0.945	
MSD Numerical Performance Indicator:	-0.252	
MSD Percent Recovery:	90.31%	
MSD Percent Recovery:	97.26%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30480057031
Sample MS I.D.:	30480057032
Sample MSD I.D.:	30480057033
Sample Matrix Spike Result:	8.481
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.715
Sample Matrix Spike Duplicate Result:	9.114
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.829
Duplicate Numerical Performance Indicator:	-0.494
Duplicate Numerical Performance Indicator:	7.42%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
5/2/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 4/26/2022
Worklist: 66275
Matrix: DW

Method Blank Assessment	
MB Sample ID	2415372
MB Concentration:	0.019
MB Counting Uncertainty:	0.059
MB MDC:	0.149
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSID (Y or N)?	N
		LCS066275	LCS066275
Count Date:	5/4/2022		
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/mL):	24.027		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.506		
Target Conc. (pCi/L, g, F):	4.744		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	4.677		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.466		
Numerical Performance Indicator:	-0.28		
Percent Recovery:	98.58%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment	
Sample I.D.:	See Below ##
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		30480057031	
Sample I.D.:		30480057032	
Sample MS I.D.:		30480057033	
Sample MSD I.D.:		19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		24.028	
Spike Volume Used in MS (mL):		0.20	
MS Aliquot (L, g, F):		0.300	
MS Target Conc. (pCi/L, g, F):		16.029	
MSD Aliquot (L, g, F):		0.318	
MSD Target Conc. (pCi/L, g, F):		15.108	
MS Spike Uncertainty (calculated):		0.192	
MSD Spike Uncertainty (calculated):		0.181	
Sample Result:		0.025	
Sample Result Counting Uncertainty (pCi/L, g, F):		0.119	
Sample Matrix Spike Result:		16.226	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		1.175	
Sample Matrix Spike Duplicate Result:		15.810	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		1.084	
MS Numerical Performance Indicator:		0.280	
MSD Numerical Performance Indicator:		1.198	
MS Percent Recovery:		101.07%	
MSD Percent Recovery:		104.47%	
MS Status vs Numerical Indicator:		N/A	
MSD Status vs Numerical Indicator:		N/A	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		125%	
MS/MSD Lower % Recovery Limits:		75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30480057031
Sample MS I.D.:	30480057032
Sample MSD I.D.:	30480057033
Sample Matrix Spike Result:	16.226
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.175
Sample Matrix Spike Duplicate Result:	15.810
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.084
Duplicate Numerical Performance Indicator:	0.510
Duplicate RPD:	3.31%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature: JC2 4/26/2022

Handwritten signature: JAM S/S/22



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: JSM
Date: 4/18/2022
Worklist: 66136
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2407530	
MB concentration:	0.174	
M/B 2 Sigma CSU:	0.342	
MB MDC:	0.754	
MB Numerical Performance Indicator:	1.00	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD66136	LCSD66136
Count Date:	4/22/2022	4/22/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	36.016	36.016
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.805
Target Conc. (pCi/L, g, F):	4.465	4.473
Uncertainty (Calculated):	0.219	0.219
Result (pCi/L, g, F):	3.390	3.720
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.871	0.937
Numerical Performance Indicator:	-2.35	-1.53
Percent Recovery:	75.92%	83.18%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS66136	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD66136	
Sample Result (pCi/L, g, F):	3.390	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.871	
Sample Duplicate Result (pCi/L, g, F):	3.720	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.937	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.506	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.12%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 4/26/2022
Worklist: 66277
Matrix: DW

Method Blank Assessment	
MB Sample ID	2415377
MB concentration:	0.017
M/B Counting Uncertainty:	0.062
MB MDC:	0.159
MB Numerical Performance Indicator:	0.55
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

LCS/D (Y or N)?	Y	
	LCS/D66277	LCS/D6277
Count Date:	5/6/2022	5/6/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.027	24.027
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.501
Target Conc. (pCi/L, g, F):	4.797	4.754
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	5.749	4.912
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.513	0.477
Numerical Performance Indicator:	3.62	0.64
Percent Recovery:	119.86%	103.32%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS66277
Duplicate Sample I.D.:	LCS/D66277
Sample Result (pCi/L, g, F):	5.749
Sample Duplicate Result (pCi/L, g, F):	0.513
Sample Result Counting Uncertainty (pCi/L, g, F):	4.912
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.477
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	2.342
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.82%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature and date: 5/16/2022

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	4/13/2022		
Sample I.D.:	30481832006		
Sample MS I.D.:	30481832007		
Sample MSD I.D.:	30481832008		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.028		
Spike Volume Used in MS (mL):	0.40		
MS Aliquot (L, g, F):	0.202		
MS Target Conc. (pCi/L, g, F):	47.517		
MSD Aliquot (L, g, F):	0.205		
MSD Target Conc. (pCi/L, g, F):	46.816		
MS Spike Uncertainty (calculated):	0.570		
MSD Spike Uncertainty (calculated):	0.562		
Sample Result:	-0.074		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.107		
Sample Matrix Spike Result:	47.525		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	2.447		
Sample Matrix Spike Duplicate Result:	47.030		
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	2.320		
MS Numerical Performance Indicator:	0.064		
MSD Numerical Performance Indicator:	0.236		
MS Percent Recovery:	100.17%		
MSD Percent Recovery:	100.62%		
MS Status vs Numerical Indicator:	N/A		
MSD Status vs Numerical Indicator:	N/A		
MS Status vs Recovery:	Pass		
MSD Status vs Recovery:	Pass		
MS/MSD Upper % Recovery Limits:	125%		
MS/MSD Lower % Recovery Limits:	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30481832006
Sample MS I.D.:	30481832007
Sample MSD I.D.:	30481832008
Sample Matrix Spike Result:	47.525
Sample Matrix Spike Duplicate Result:	2.447
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	47.030
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.320
Duplicate Numerical Performance Indicator:	0.288
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	0.44%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Handwritten signature and date: VAMS 5/16/22

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

Field Case Narrative



Greene County Ash Pond

2022 Additional Request Event

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

Suspected iron bacteria was present during initial pumping of well MW-1 and MW-44H.

A light rain occurred when pumping and sampling well MW-39H.

A significant amount of ants were inside the locking well cap lid of wells MW-53H and MW-42H.

Field quality control procedures were performed as follows:

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

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

Analytical Report



Sample Group : WMWGREAP_1361

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

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

Attention : Dustin Brooks & Greg Dyer

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

May 18, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between April 05, 2022 and April 07, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2022.05.18
11:11:04 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske c=US
United States, e=tdmaske@southernco.com
Reason: I am approving this document
Location:
Date: 2022-05-18 12:40:05-00



REPORT OF LABORATORY ANALYSIS

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



Alkalinity

Greene Co. Ash Pond

WMWGREAP_1361

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06763	723718, 723719	WMWGREAP_1361
BC06764	723718, 723719	WMWGREAP_1361
BC06765	723718, 723719	WMWGREAP_1361
BC06766	723718, 723719	WMWGREAP_1361
BC06767	723718, 723719	WMWGREAP_1361
BC07001	723831, 723832	WMWGREAP_1361
BC07002	723831, 723832	WMWGREAP_1361
BC07003	723831, 723832	WMWGREAP_1361
BC07004	723831, 723832	WMWGREAP_1361
BC07005	723831, 723832	WMWGREAP_1361
BC07006	723831, 723832	WMWGREAP_1361
BC07007	723831, 723832	WMWGREAP_1361
BC07008	723831, 723832	WMWGREAP_1361
BC07009	723831, 723832	WMWGREAP_1361
BC07010	723831, 723832	WMWGREAP_1361

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
 - A final pH check was analyzed with each batch. The acceptance criteria were met.
 - An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
 - An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
 - BC06763

Case Narrative

- BC06764
- BC06765
- BC06767
- BC07001
- BC07004

Anions

Greene Co. Ash Pond

WMWGREAP_1361

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06763	722875, 722877, & 723500	WMWGREAP_1361
BC06764	722875, 722877, & 723500	WMWGREAP_1361
BC06765	722875, 722877, & 723500	WMWGREAP_1361
BC06766	722875, 722877, & 723500	WMWGREAP_1361
BC06767	722875, 722877, & 723500	WMWGREAP_1361
BC07001	723568, 723688, & 723503	WMWGREAP_1361
BC07002	723568, 723688, & 723503	WMWGREAP_1361
BC07003	723568, 723688, & 723503	WMWGREAP_1361
BC07004	723568, 723688, & 723503	WMWGREAP_1361
BC07005	723568, 723688, & 723503	WMWGREAP_1361
BC07006	723568, 723688, & 723503	WMWGREAP_1361
BC07007	723568, 723688, & 723503	WMWGREAP_1361
BC07008	723568, 723688, & 723503	WMWGREAP_1361
BC07009	723568, 723688, & 723503	WMWGREAP_1361
BC07010	723568, 723688, & 723503	WMWGREAP_1361

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range,

any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06763	Chloride & Sulfate	8 & 40
BC06764	Sulfate	20
BC06765	Sulfate	10
BC06766	Sulfate	5
BC06767	Sulfate	8
BC07001	Sulfate	40
BC07002	Chloride	2
BC07003	Sulfate	4
BC07004	Chloride & Sulfate	2 & 4
BC07005	Sulfate	2
BC07006	Chloride	2
BC07007	Sulfate	2
BC07008	Sulfate	5
BC07009	Sulfate	5

8. The raw data results are shown with dilution factors included.

Dissolved Mercury

Greene Co. Ash Pond

WMWGREAP_1361

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06763	722923	WMWGREAP_1361
BC06764	722923	WMWGREAP_1361
BC06765	722923	WMWGREAP_1361
BC06766	722923	WMWGREAP_1361
BC06767	722923	WMWGREAP_1361
BC07001	723170	WMWGREAP_1361
BC07002	723170	WMWGREAP_1361
BC07003	723170	WMWGREAP_1361
BC07004	723170	WMWGREAP_1361
BC07005	723170	WMWGREAP_1361
BC07006	723170	WMWGREAP_1361
BC07007	723170	WMWGREAP_1361
BC07008	723170	WMWGREAP_1361
BC07009	723170	WMWGREAP_1361
BC07010	723170	WMWGREAP_1361

4. All of the above samples were analyzed and prepared by EPA 245.1 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were digested and analyzed with the samples in each batch.
- All laboratory control sample criteria were met.

- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP_1361

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06763	723706	WMWGREAP_1361
BC06764	723706	WMWGREAP_1361
BC06765	723706	WMWGREAP_1361
BC06766	723706	WMWGREAP_1361
BC06767	723706	WMWGREAP_1361
BC07001	723706	WMWGREAP_1361
BC07002	723706	WMWGREAP_1361
BC07003	723706	WMWGREAP_1361
BC07004	723706	WMWGREAP_1361
BC07005	723706	WMWGREAP_1361
BC07006	723707	WMWGREAP_1361
BC07007	723707	WMWGREAP_1361
BC07008	723707	WMWGREAP_1361
BC07009	723707	WMWGREAP_1361
BC07010	723707	WMWGREAP_1361

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

Revision 5

Case Narrative

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP_1361

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06763	722852	WMWGREAP_1361
BC06764	722852	WMWGREAP_1361
BC06765	722852	WMWGREAP_1361
BC06766	722852	WMWGREAP_1361
BC06767	722852	WMWGREAP_1361
BC07001	723172	WMWGREAP_1361
BC07002	723172	WMWGREAP_1361
BC07003	723172	WMWGREAP_1361
BC07004	723172	WMWGREAP_1361
BC07005	723172	WMWGREAP_1361
BC07006	723172	WMWGREAP_1361
BC07007	723172	WMWGREAP_1361
BC07008	723172	WMWGREAP_1361
BC07009	723172	WMWGREAP_1361
BC07010	723172	WMWGREAP_1361

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was ≤10%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP_1361

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06763	723067	WMWGREAP_1361
BC06764	723067	WMWGREAP_1361
BC06765	723067	WMWGREAP_1361
BC06766	723067	WMWGREAP_1361
BC06767	723067	WMWGREAP_1361
BC07001	723559	WMWGREAP_1361
BC07002	723559	WMWGREAP_1361
BC07003	723559	WMWGREAP_1361
BC07004	723559	WMWGREAP_1361
BC07005	723559	WMWGREAP_1361
BC07006	723559	WMWGREAP_1361
BC07007	723559	WMWGREAP_1361
BC07008	723559	WMWGREAP_1361
BC07009	723559	WMWGREAP_1361
BC07010	723559	WMWGREAP_1361

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-1 DIS

Location Code: WMWGREAP
Collected: 4/4/22 14:14
Customer ID:
Submittal Date: 4/5/22 12:59

Laboratory ID Number: BC06763

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Dissolved by CVAA	4/7/22 14:37	4/7/22 19:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:25	4/14/22 12:25		1	0.300	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/14/22 11:25	4/14/22 14:14		1	54.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	1340	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	54.4	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/8/22 01:35	4/7/22 01:35		1	2.88	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 13:13	4/6/22 13:13		8	42.3	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:21	4/6/22 14:21		1	0.087	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 09:47	4/12/22 09:47		40	824	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/4/22 14:11	4/4/22 14:11			1465.42	uS/cm			FA
pH	4/4/22 14:11	4/4/22 14:11			5.17	SU			FA
Temperature	4/4/22 14:11	4/4/22 14:11			20.06	C			FA
Turbidity	4/4/22 14:11	4/4/22 14:11			4.22	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 14:14

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-1 DIS

Laboratory ID Number: BC06763

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06767	Chloride	mg/L	-0.00935	1.00	10.0	18.6	18.3	9.76	9.00 to 11.0	105	80.0 to 120	1.63	20.0
BC06767	Fluoride	mg/L	-0.0195	0.125	2.50	3.13	3.12	2.53	2.25 to 2.75	101	80.0 to 120	0.320	20.0
BC06767	Mercury, Dissolved by	mg/L	-0.00018	0.000500	0.004	0.00386	0.00389	0.00387	0.00340 to 0.00460	96.5	70.0 to 130	0.774	20.0
BC06767	Sulfate	mg/L	0.296	2.0	160	247	230	19.7	18.0 to 22.0	109	80.0 to 120	7.13	20.0
BC06767	Total Organic Carbon	mg/L	0.410	1.00	10.0	11.9	11.9	25.1		96.4	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 14:14

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-1 DIS

Laboratory ID Number: BC06763

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BC06767	Alkalinity, Total as CaCO3	mg/L					467	50.7	45.0 to 55.0			2.33	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC06767	Solids, Dissolved	mg/L	1.00	25.0			536	46.0	40.0 to 60.0			2.58	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-44H DIS

Location Code: WMWGREAP
Collected: 4/4/22 17:14
Customer ID:
Submittal Date: 4/5/22 12:59

Laboratory ID Number: BC06764

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Dissolved by CVAA	4/7/22 14:37	4/7/22 19:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:27	4/14/22 12:27		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/14/22 11:25	4/14/22 14:14		1	93.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	614	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	93.6	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/8/22 01:51	4/7/22 01:51		1	1.45	mg/L	1.00	2	J
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	4/6/22 13:06	4/6/22 13:06		1	13.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:23	4/6/22 14:23		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 09:48	4/12/22 09:48		20	376	mg/L	12.0	40	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 17:14

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-44H DIS

Laboratory ID Number: BC06764

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06767	Chloride	mg/L	-0.00935	1.00	10.0	18.6	18.3	9.76	9.00 to 11.0	105	80.0 to 120	1.63	20.0
BC06767	Fluoride	mg/L	-0.0195	0.125	2.50	3.13	3.12	2.53	2.25 to 2.75	101	80.0 to 120	0.320	20.0
BC06767	Mercury, Dissolved by	mg/L	-0.00018	0.000500	0.004	0.00386	0.00389	0.00387	0.00340 to 0.00460	96.5	70.0 to 130	0.774	20.0
BC06767	Sulfate	mg/L	0.296	2.0	160	247	230	19.7	18.0 to 22.0	109	80.0 to 120	7.13	20.0
BC06767	Total Organic Carbon	mg/L	0.410	1.00	10.0	11.9	11.9	25.1		96.4	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 17:14

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-44H DIS

Laboratory ID Number: BC06764

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06767	Alkalinity, Total as CaCO3	mg/L					467	50.7	45.0 to 55.0			2.33	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC06767	Solids, Dissolved	mg/L	1.00	25.0			536	46.0	40.0 to 60.0			2.58	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-14 DIS

Location Code: WMWGREAP
Collected: 4/4/22 12:28
Customer ID:
Submittal Date: 4/5/22 12:59

Laboratory ID Number: BC06765

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Dissolved by CVAA	4/7/22 14:37	4/7/22 19:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:28	4/14/22 12:28		1	0.230	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/14/22 11:25	4/14/22 14:14		1	382	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	658	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	382	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/8/22 02:06	4/7/22 02:06		1	2.69	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 13:07	4/6/22 13:07		1	10.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:24	4/6/22 14:24		1	0.207	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 09:49	4/12/22 09:49		10	199	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/4/22 12:25	4/4/22 12:25			891.38	uS/cm			FA
pH	4/4/22 12:25	4/4/22 12:25			6.39	SU			FA
Temperature	4/4/22 12:25	4/4/22 12:25			23.40	C			FA
Turbidity	4/4/22 12:25	4/4/22 12:25			0.96	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 12:28

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-14 DIS

Laboratory ID Number: BC06765

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06767	Chloride	mg/L	-0.00935	1.00	10.0	18.6	18.3	9.76	9.00 to 11.0	105	80.0 to 120	1.63	20.0
BC06767	Fluoride	mg/L	-0.0195	0.125	2.50	3.13	3.12	2.53	2.25 to 2.75	101	80.0 to 120	0.320	20.0
BC06767	Mercury, Dissolved by	mg/L	-0.00018	0.000500	0.004	0.00386	0.00389	0.00387	0.00340 to 0.00460	96.5	70.0 to 130	0.774	20.0
BC06767	Sulfate	mg/L	0.296	2.0	160	247	230	19.7	18.0 to 22.0	109	80.0 to 120	7.13	20.0
BC06767	Total Organic Carbon	mg/L	0.410	1.00	10.0	11.9	11.9	25.1		96.4	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 12:28

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-14 DIS

Laboratory ID Number: BC06765

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06767	Alkalinity, Total as CaCO3	mg/L					467	50.7	45.0 to 55.0			2.33	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC06767	Solids, Dissolved	mg/L	1.00	25.0			536	46.0	40.0 to 60.0			2.58	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-10 DIS

Location Code: WMWGREAP
Collected: 4/4/22 14:40
Customer ID:
Submittal Date: 4/5/22 12:59

Laboratory ID Number: BC06766

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Dissolved by CVAA	4/7/22 14:37	4/7/22 19:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:30	4/14/22 12:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/14/22 11:25	4/14/22 14:14		1	289	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	452	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	288	mg/L			
Carbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	0.681	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/8/22 02:25	4/7/22 02:25		1	2.74	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 13:08	4/6/22 13:08		1	16.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:25	4/6/22 14:25		1	0.281	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 09:50	4/12/22 09:50		5	122	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/4/22 14:38	4/4/22 14:38			627.33	uS/cm			FA
pH	4/4/22 14:38	4/4/22 14:38			6.21	SU			FA
Temperature	4/4/22 14:38	4/4/22 14:38			25.50	C			FA
Turbidity	4/4/22 14:38	4/4/22 14:38			0.4	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 14:40

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-10 DIS

Laboratory ID Number: BC06766

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06767	Chloride	mg/L	-0.00935	1.00	10.0	18.6	18.3	9.76	9.00 to 11.0	105	80.0 to 120	1.63	20.0
BC06767	Fluoride	mg/L	-0.0195	0.125	2.50	3.13	3.12	2.53	2.25 to 2.75	101	80.0 to 120	0.320	20.0
BC06767	Mercury, Dissolved by	mg/L	-0.00018	0.000500	0.004	0.00386	0.00389	0.00387	0.00340 to 0.00460	96.5	70.0 to 130	0.774	20.0
BC06767	Sulfate	mg/L	0.296	2.0	160	247	230	19.7	18.0 to 22.0	109	80.0 to 120	7.13	20.0
BC06767	Total Organic Carbon	mg/L	0.410	1.00	10.0	11.9	11.9	25.1		96.4	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 14:40

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-10 DIS

Laboratory ID Number: BC06766

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06767	Alkalinity, Total as CaCO3	mg/L					467	50.7	45.0 to 55.0			2.33	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC06767	Solids, Dissolved	mg/L	1.00	25.0			536	46.0	40.0 to 60.0			2.58	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-17 DIS

Location Code: WMWGREAP
Collected: 4/4/22 16:18
Customer ID:
Submittal Date: 4/5/22 12:59

Laboratory ID Number: BC06767

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Dissolved by CVAA	4/7/22 14:37	4/7/22 19:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:32	4/14/22 12:32		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/14/22 11:25	4/14/22 14:14		1	478	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/6/22 10:00	4/7/22 14:30		1	550	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	478	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/14/22 11:25	4/14/22 14:14		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/8/22 02:47	4/7/22 02:47		1	2.26	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/6/22 13:09	4/6/22 13:09		1	8.06	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/6/22 14:26	4/6/22 14:26		1	0.607	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 09:51	4/12/22 09:51		8	72.3	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/4/22 16:14	4/4/22 16:14			773.09	uS/cm			FA
pH	4/4/22 16:14	4/4/22 16:14			6.71	SU			FA
Temperature	4/4/22 16:14	4/4/22 16:14			26.47	C			FA
Turbidity	4/4/22 16:14	4/4/22 16:14			2.05	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 16:18

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-17 DIS

Laboratory ID Number: BC06767

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06767	Chloride	mg/L	-0.00935	1.00	10.0	18.6	18.3	9.76	9.00 to 11.0	105	80.0 to 120	1.63	20.0
BC06767	Fluoride	mg/L	-0.0195	0.125	2.50	3.13	3.12	2.53	2.25 to 2.75	101	80.0 to 120	0.320	20.0
BC06767	Mercury, Dissolved by	mg/L	-0.00018	0.000500	0.004	0.00386	0.00389	0.00387	0.00340 to 0.00460	96.5	70.0 to 130	0.774	20.0
BC06767	Sulfate	mg/L	0.296	2.0	160	247	230	19.7	18.0 to 22.0	109	80.0 to 120	7.13	20.0
BC06767	Total Organic Carbon	mg/L	0.410	1.00	10.0	11.9	11.9	25.1		96.4	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/4/22 16:18

Customer ID:

Delivery Date: 4/5/22 12:59

Description: Greene County Ash Pond - MW-17 DIS

Laboratory ID Number: BC06767

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06767	Alkalinity, Total as CaCO3	mg/L					467	50.7	45.0 to 55.0			2.33	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC06767	Solids, Dissolved	mg/L	1.00	25.0			536	46.0	40.0 to 60.0			2.58	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - PZ-4 DIS

Location Code: WMWGREAP
Collected: 4/5/22 17:00
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07001

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:34	4/14/22 12:34		1	0.406	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	66.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	1240	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	66.4	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 14:06	4/12/22 14:06		1	1.65	mg/L	1.00	2	J
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	4/13/22 10:35	4/13/22 10:35		1	7.86	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:54	4/14/22 10:54		1	0.0841	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:05	4/12/22 12:05		40	812	mg/L	24.0	80	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/5/22 16:56	4/5/22 16:56			1260.99	uS/cm			FA
pH	4/5/22 16:56	4/5/22 16:56			5.95	SU			FA
Temperature	4/5/22 16:56	4/5/22 16:56			27.79	C			FA
Turbidity	4/5/22 16:56	4/5/22 16:56			4.61	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 17:00

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - PZ-4 DIS

Laboratory ID Number: BC07001

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 17:00

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - PZ-4 DIS

Laboratory ID Number: BC07001

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-3 DIS

Location Code: WMWGREAP
Collected: 4/5/22 18:10
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07002

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:36	4/14/22 12:36		1	0.431	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	277	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	337	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	277	mg/L			
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 14:23	4/12/22 14:23		1	10.1	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:49	4/13/22 10:49		2	20.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:55	4/14/22 10:55		1	0.107	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:06	4/12/22 12:06		1	14.7	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/5/22 18:08	4/5/22 18:08			532.06	uS/cm			FA
pH	4/5/22 18:08	4/5/22 18:08			6.27	SU			FA
Temperature	4/5/22 18:08	4/5/22 18:08			26.33	C			FA
Turbidity	4/5/22 18:08	4/5/22 18:08			1.8	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 18:10

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-3 DIS

Laboratory ID Number: BC07002

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 18:10

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-3 DIS

Laboratory ID Number: BC07002

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-42H DIS

Location Code: WMWGREAP
Collected: 4/6/22 08:33
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07003

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:38	4/14/22 12:38		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	234	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	368	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	234	mg/L			
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 14:42	4/12/22 14:42		1	2.71	mg/L	1.00	2	
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	4/13/22 10:37	4/13/22 10:37		1	15.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:56	4/14/22 10:56		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:07	4/12/22 12:07		4	94.3	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/22 08:30	4/6/22 08:30			577.97	uS/cm			FA
pH	4/6/22 08:30	4/6/22 08:30			6.10	SU			FA
Temperature	4/6/22 08:30	4/6/22 08:30			24.82	C			FA
Turbidity	4/6/22 08:30	4/6/22 08:30			3.33	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 08:33

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-42H DIS

Laboratory ID Number: BC07003

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 08:33

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-42H DIS

Laboratory ID Number: BC07003

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-43H DIS

Location Code: WMWGREAP
Collected: 4/6/22 09:38
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07004

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:40	4/14/22 12:40		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	400	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	562	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	398	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	1.56	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 15:01	4/12/22 15:01		1	2.13	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:51	4/13/22 10:51		2	38.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:57	4/14/22 10:57		1	0.0977	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:08	4/12/22 12:08		4	105	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/22 09:34	4/6/22 09:34			839.57	uS/cm			FA
pH	4/6/22 09:34	4/6/22 09:34			6.43	SU			FA
Temperature	4/6/22 09:34	4/6/22 09:34			25.25	C			FA
Turbidity	4/6/22 09:34	4/6/22 09:34			4.25	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 09:38

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-43H DIS

Laboratory ID Number: BC07004

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 09:38

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-43H DIS

Laboratory ID Number: BC07004

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-16 DIS

Location Code: WMWGREAP
Collected: 4/6/22 12:07
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07005

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:41	4/14/22 12:41		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	504	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	456	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	504	mg/L			
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 15:22	4/12/22 15:22		1	2.04	mg/L	1.00	2	
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	4/13/22 10:40	4/13/22 10:40		1	11.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 10:58	4/14/22 10:58		1	0.213	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:10	4/12/22 12:10		2	45.3	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/22 12:04	4/6/22 12:04			746.84	uS/cm			FA
pH	4/6/22 12:04	4/6/22 12:04			6.42	SU			FA
Temperature	4/6/22 12:04	4/6/22 12:04			26.29	C			FA
Turbidity	4/6/22 12:04	4/6/22 12:04			4.33	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 12:07

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-16 DIS

Laboratory ID Number: BC07005

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 12:07

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-16 DIS

Laboratory ID Number: BC07005

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07005	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.21	0.065	2.02	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-18 DIS

Location Code: WMWGREAP
Collected: 4/6/22 15:10
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07006

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:51	4/14/22 12:51		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	388	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	413	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	388	mg/L			
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 15:41	4/12/22 15:41		1	2.37	mg/L	1.00	2	
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	4/13/22 10:52	4/13/22 10:52		2	24.0	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 11:00	4/14/22 11:00		1	0.115	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:11	4/12/22 12:11		1	15.8	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	4/6/22 15:06	4/6/22 15:06			636.34	uS/cm			FA
pH	4/6/22 15:06	4/6/22 15:06			6.29	SU			FA
Temperature	4/6/22 15:06	4/6/22 15:06			27.48	C			FA
Turbidity	4/6/22 15:06	4/6/22 15:06			2.48	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 15:10

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-18 DIS

Laboratory ID Number: BC07006

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 15:10

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-18 DIS

Laboratory ID Number: BC07006

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07010	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.17	0.111	2.10	1.80 to 2.20	108	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-57H DIS

Location Code: WMWGREAP
Collected: 4/5/22 16:47
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07007

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:51	4/14/22 12:51		1	0.429	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	58.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	152	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	58.6	mg/L			
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 15:57	4/12/22 15:57		1	5.07	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:42	4/13/22 10:42		1	19.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 11:01	4/14/22 11:01		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:12	4/12/22 12:12		2	49.5	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/5/22 16:44	4/5/22 16:44			251.21	uS/cm			FA
pH	4/5/22 16:44	4/5/22 16:44			5.41	SU			FA
Temperature	4/5/22 16:44	4/5/22 16:44			16.57	C			FA
Turbidity	4/5/22 16:44	4/5/22 16:44			4.92	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/5/22 16:47
Customer ID:
Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-57H DIS

Laboratory ID Number: BC07007

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 16:47

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-57H DIS

Laboratory ID Number: BC07007

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07010	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.17	0.111	2.10	1.80 to 2.20	108	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-54H DIS

Location Code: WMWGREAP
Collected: 4/5/22 17:50
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07008

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:52	4/14/22 12:52		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	243	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	419	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	243	mg/L			
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 16:13	4/12/22 16:13		1	2.46	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:43	4/13/22 10:43		1	8.22	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 11:02	4/14/22 11:02		1	0.219	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:13	4/12/22 12:13		5	124	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/5/22 17:47	4/5/22 17:47			693.20	uS/cm			FA
pH	4/5/22 17:47	4/5/22 17:47			6.59	SU			FA
Temperature	4/5/22 17:47	4/5/22 17:47			16.80	C			FA
Turbidity	4/5/22 17:47	4/5/22 17:47			4.62	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 17:50

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-54H DIS

Laboratory ID Number: BC07008

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/5/22 17:50

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-54H DIS

Laboratory ID Number: BC07008

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07010	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.17	0.111	2.10	1.80 to 2.20	108	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-53H DIS

Location Code: WMWGREAP
Collected: 4/6/22 08:10
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07009

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:53	4/14/22 12:53		1	0.203	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	255	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	428	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	255	mg/L			
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 16:29	4/12/22 16:29		1	5.85	mg/L	1.00	2	
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	4/13/22 10:45	4/13/22 10:45		1	8.11	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 11:03	4/14/22 11:03		1	0.0882	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:14	4/12/22 12:14		5	123	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/22 08:07	4/6/22 08:07			715.12	uS/cm			FA
pH	4/6/22 08:07	4/6/22 08:07			6.23	SU			FA
Temperature	4/6/22 08:07	4/6/22 08:07			16.97	C			FA
Turbidity	4/6/22 08:07	4/6/22 08:07			4.15	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 08:10

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-53H DIS

Laboratory ID Number: BC07009

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 08:10

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-53H DIS

Laboratory ID Number: BC07009

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07010	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.17	0.111	2.10	1.80 to 2.20	108	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-39H DIS

Location Code: WMWGREAP
Collected: 4/6/22 09:27
Customer ID:
Submittal Date: 4/7/22 13:23

Laboratory ID Number: BC07010

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 245.1		Analyst: ABB							
* Mercury, Dissolved by CVAA	4/8/22 16:43	4/8/22 22:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/14/22 12:54	4/14/22 12:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/19/22 10:05	4/19/22 13:42		1	461	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	4/8/22 11:03	4/11/22 14:03		1	452	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	461	mg/L			
Carbonate Alkalinity, (calc.)	4/19/22 10:05	4/19/22 13:42		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	4/12/22 16:48	4/12/22 16:48		1	2.10	mg/L	1.00	2	
Analytical Method: SM4500CI E		Analyst: JCC							
* Chloride	4/13/22 10:46	4/13/22 10:46		1	8.35	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	4/14/22 11:04	4/14/22 11:04		1	0.363	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	4/12/22 12:16	4/12/22 12:16		1	31.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	4/6/22 09:24	4/6/22 09:24			805.88	uS/cm			FA
pH	4/6/22 09:24	4/6/22 09:24			6.31	SU			FA
Temperature	4/6/22 09:24	4/6/22 09:24			19.59	C			FA
Turbidity	4/6/22 09:24	4/6/22 09:24			2.32	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 09:27

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-39H DIS

Laboratory ID Number: BC07010

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC07010	Chloride	mg/L	-0.0393	1.00	10.0	18.2	18.4	9.71	9.00 to 11.0	98.5	80.0 to 120	1.09	20.0
BC07010	Fluoride	mg/L	-0.0903	0.125	2.50	3.16	3.16	2.66	2.25 to 2.75	112	80.0 to 120	0.00	20.0
BC07010	Mercury, Dissolved by	mg/L	-1.000E-05	0.000500	0.004	0.00395	0.004	0.00399	0.00340 to 0.00460	98.8	70.0 to 130	1.26	20.0
BC07010	Sulfate	mg/L	0.256	2.0	20.0	52.5	51.7	19.4	18.0 to 22.0	108	80.0 to 120	1.54	20.0
BC07010	Total Organic Carbon	mg/L	0.310	1.00	10.0	11.8	11.8	24.7		97.0	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 4/6/22 09:27

Customer ID:

Delivery Date: 4/7/22 13:23

Description: Greene County Ash Pond - MW-39H DIS

Laboratory ID Number: BC07010

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC07010	Alkalinity, Total as CaCO3	mg/L					457	50.4	45.0 to 55.0			0.871	10.0
BC07010	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.17	0.111	2.10	1.80 to 2.20	108	90.0 to 110	0.00	15.0
BC07010	Solids, Dissolved	mg/L	0.0000	25.0			458	51.0	40.0 to 60.0			1.32	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Definitions

Project Number: WMWGREAP_1361

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
U	Compound was analyzed, but not detected.



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Hg	250 mL	3	TDS	500 mL	5	Alkalinity	250 mL	7	N/A	N/A
	2 Nitrate/Nitrite; TOC	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: N/N & TOC bottles pH<2. Adding DIS to sample descriptions. LBM 4/5/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1 DIS	04/04/2022	14:14	5	Field Filtered		BC06763
MW-44H DIS	04/04/2022	17:14	5	Field Filtered		BC06754

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Laura M. Kelly</i>	04/05/2022 10:33

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> Cooler Temp Thermometer ID pH Strip ID	
Turbidity ID	3901-20010-2-2		0.3 degrees C
Sample Event	1361		5408-27568-2-2
			9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer		
	Collector: TJ Daugherty		Requested By	Greg Dyer	
		Location	Greene Ash Pond		

Bottles	1	Hg	250 mL	3	TDS	500 mL	5	Alkalinity	250 mL	7	N/A	N/A
	2	Nitrates/Nitrites, TOC	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: N/N & TOC bottles pH<2. Adding DIS to sample descriptions. LBM 4/5/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-14 DIS	04/04/2022	12:28	5	Field Filtered		BC06765
MW-10 DIS	04/04/2022	14:40	5	Field Filtered		BC06766
MW-17 DIS	04/04/2022	16:18	5	Field Filtered		BC06767

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Laura M. Dyer</i>	04/05/2022 10:36

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1361	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Hg	250 mL	3 TDS	500 mL	5 Alkalinity	250 mL	7 N/A	N/A
	2 Nitrates/Nitrites, TOC	250 mL	4 Anions	250 mL	6 N/A	N/A	8 N/A	N/A

Comments	N/N & TOC bottles pH<2. LBM 4/7/22
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Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-4 Dis	04/05/2022	17:00	5	Field Filtered		BC07001
MW-3 Dis	04/05/2022	18:10	5	Field Filtered		BC07002
MW-42H Dis	04/06/2022	08:33	5	Field Filtered		BC07003
MW-43H Dis	04/06/2022	09:38	5	Field Filtered		BC07004
MW-16 Dis	04/06/2022	12:07	5	Field Filtered		BC07005
MW-18 Dis	04/06/2022	15:10	5	Field Filtered		BC07006

Relinquished By	Received By	Date/Time
		04/07/2022 10:27

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1361

All metals and radiological bottles have pH < 2

Cooler Temp	0.3 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	9772-56585-100-7



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Hg	250 mL	3	TDS	500 mL	5	Alkalinity	250 mL	7	N/A	N/A
	2	Nitrate/Nitrite; TOC	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: Updating Sample Event # to 1361. N/N & TOC bottles pH<2. LBM 4/7/22
Updating sample # to MW-57H DIS from MA-57HDIS. LBM 4/8/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-57H dis	04/05/2022	16:47	5	Field Filtered		BC07007
MW-54H dis	04/05/2022	17:50	5	Field Filtered		BC07008
MW-53H dis	04/06/2022	08:10	5	Field Filtered		BC07009
MW-39H dis	04/06/2022	09:27	5	Field Filtered		BC07010

Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Laura Melby</i>	04/07/2022 10:48

SmarTroll ID	7586-41443-5-2
Turbidity ID	3901-20010-2-2
Sample Event	1361

All metals and radiological bottles have pH < 2

Cooler Temp	0.3 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

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

Field Case Narrative



Greene County Ash Pond

2022 MW-52HO (Land Trust) Event 1

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

Sample water was an orange color during initial pumping. There was a heavy rainfall on-site 24 hours earlier.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
 - Field Blank 1 (FB-1) had results greater than the reporting limit (RL) for Manganese.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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

Analytical Report



Sample Group : WMWGREAP_1357

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

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

Attention : Dustin Brooks & Greg Dyer

Released By : Renee Jernigan
rgarner@southernco.com
(205) 664-6247

May 05, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Renee
Jernigan**

Digitally signed by Renee
Jernigan
Date: 2022.05.05
14:01:08 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske,
o=US United States, ou=US United States,
e=tmaske@southernco.com
Reason: I am approving this document
Location:
Date: 2022-05-05 15:28-05:00



REPORT OF LABORATORY ANALYSIS

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



Case Narrative

Total Metals ICP

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	722512	WMWGREAP_1357
BC06189	722512	WMWGREAP_1357
BC06190	722512	WMWGREAP_1357
BC06191	722512	WMWGREAP_1357

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06188	Calcium, Sodium	10.15
BC06189	Calcium, Sodium	10.15

8. The raw data results are shown with dilution factors included.

Case Narrative

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	722125	WMWGREAP_1357
BC06189	722125	WMWGREAP_1357

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any

Revision 5

sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC06189 Calcium and Sodium MS/MSD spike levels were <30% of the sample concentration.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06188	Calcium, Sodium	10.15
BC06189	Calcium, Sodium	10.15

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	722396	WMWGREAP_1357
BC06189	722396	WMWGREAP_1357
BC06190	722396	WMWGREAP_1357
BC06191	722396	WMWGREAP_1357

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06188	Manganese	10.15
BC06189	Manganese	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	722319	WMWGREAP_1357
BC06189	722319	WMWGREAP_1357

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any

Revision 5

sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC06189 Manganese MS/MSD spike level was <30% of the sample concentration.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06188	Manganese	10.15
BC06189	Manganese	10.15

8. The raw data results are shown with dilution factors included.

Mercury

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	721865	WMWGREAP_1357
BC06189	721865	WMWGREAP_1357
BC06190	721865	WMWGREAP_1357
BC06191	721865	WMWGREAP_1357

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	721983	WMWGREAP_1357
BC06189	721983	WMWGREAP_1357
BC06190	721983	WMWGREAP_1357
BC06191	721983	WMWGREAP_1357

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
 - Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	722012	WMWGREAP_1357
BC06189	722012	WMWGREAP_1357
BC06190	722012	WMWGREAP_1357
BC06191	722012	WMWGREAP_1357

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Case Narrative

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	722000	WMWGREAP_1357
BC06189	722000	WMWGREAP_1357
BC06190	722000	WMWGREAP_1357
BC06191	722000	WMWGREAP_1357

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC06190
 - BC06191

Anions

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	721871, 721955, & 722005	WMWGREAP_1357
BC06189	721871, 721955, & 722005	WMWGREAP_1357
BC06190	721871, 721955, & 722005	WMWGREAP_1357
BC06191	721871, 721955, & 722005	WMWGREAP_1357

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.

Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06188	Chloride	8
BC06189	Chloride	8

8. The raw data results are shown with dilution factors included.

Alkalinity

Greene Co. Ash Pond

WMWGREAP_1357

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06188	722676, 722677	WMWGREAP_1357
BC06189	722676, 722677	WMWGREAP_1357

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
 - A final pH check was analyzed with each batch. The acceptance criteria were met.
 - An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
 - An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
 - BC06188

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP
Collected: 3/23/22 09:38
Customer ID:
Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 11:01		1.015	1.33	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/7/22 11:52		10.15	66.0	mg/L	0.70035	4.06	
* Iron, Total	4/5/22 07:00	4/7/22 11:01		1.015	0.570	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/7/22 11:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 11:01		1.015	23.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 11:01		1	9.54	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 11:01		1.015	4.46	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 11:52		10.15	71.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:23	4/5/22 09:23		1.015	1.26	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:23	4/5/22 09:54		10.15	68.6	mg/L	0.70035	4.06	
* Iron, Dissolved	4/4/22 08:23	4/5/22 09:23		1.015	0.288	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:23	4/5/22 09:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:23	4/5/22 09:23		1.015	22.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:23	4/5/22 09:23		1	9.24	mg/L			
Silicon, Dissolved	4/4/22 08:23	4/5/22 09:23		1.015	4.32	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:23	4/5/22 09:54		10.15	76.7	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:36	3/30/22 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:36	3/30/22 13:36		1.015	0.0218	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:36	3/30/22 13:36		1.015	0.000262	mg/L	0.000081	0.000203	
* Barium, Total	3/29/22 14:36	3/30/22 13:36		1.015	0.149	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:36	3/30/22 13:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:36	3/30/22 13:36		1.015	0.000141	mg/L	0.000068	0.000203	J
* Chromium, Total	3/29/22 14:36	3/30/22 13:36		1.015	0.000352	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:36	3/30/22 13:36		1.015	0.0164	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:36	3/30/22 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:36	3/30/22 14:02		10.15	10.7	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/29/22 14:36	3/30/22 13:36		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:36	3/30/22 13:36		1.015	4.16	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP
Collected: 3/23/22 09:38
Customer ID:
Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:36	3/30/22 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:36	3/30/22 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	0.000104	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	0.151	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	0.000141	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	0.000261	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	0.0158	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:59	3/31/22 12:57		10.15	11.1	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	4.16	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:59	3/29/22 16:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 21:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/1/22 15:42	4/1/22 15:42		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/4/22 13:40	4/4/22 14:35		1	265	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/29/22 11:23	3/30/22 12:58		1	518	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/4/22 13:40	4/4/22 14:35		1	264	mg/L		1	A
Carbonate Alkalinity, (calc.)	4/4/22 13:40	4/4/22 14:35		1	0.768	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 21:32	3/29/22 21:32		1	1.66	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP

Collected: 3/23/22 09:38

Customer ID:

Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:56	3/28/22 11:56		8	123	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 15:04	3/28/22 15:04		1	0.0894	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 13:19	3/29/22 13:19		1	38.9	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/23/22 09:34	3/23/22 09:34			850.17	uS/cm			FA
pH	3/23/22 09:34	3/23/22 09:34			6.14	SU			FA
Temperature	3/23/22 09:34	3/23/22 09:34			17.45	C			FA
Turbidity	3/23/22 09:34	3/23/22 09:34			4.36	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 09:38
Customer ID:
Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BC06188

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC06189	Aluminum, Dissolved	mg/L	-0.000233	0.010	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BC06191	Aluminum, Total	mg/L	0.000484	0.010	0.100	0.0971	0.0998	0.104	0.0850 to 0.115	97.1	70.0 to 130	2.74	20.0
BC06189	Antimony, Dissolved	mg/L	0.000296	0.00100	0.100	0.0895	0.0910	0.0994	0.0850 to 0.115	89.5	70.0 to 130	1.66	20.0
BC06191	Antimony, Total	mg/L	0.000288	0.00100	0.100	0.0968	0.0990	0.0986	0.0850 to 0.115	96.8	70.0 to 130	2.25	20.0
BC06189	Arsenic, Dissolved	mg/L	0.0000073	0.000176	0.100	0.0994	0.0970	0.0994	0.0850 to 0.115	99.3	70.0 to 130	2.44	20.0
BC06191	Arsenic, Total	mg/L	-0.0000254	0.000176	0.100	0.100	0.101	0.105	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06189	Barium, Dissolved	mg/L	-0.0000331	0.00100	0.100	0.257	0.252	0.108	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06191	Barium, Total	mg/L	0.0000209	0.00100	0.100	0.0924	0.0967	0.0965	0.0850 to 0.115	92.4	70.0 to 130	4.55	20.0
BC06189	Beryllium, Dissolved	mg/L	0.0000834	0.000880	0.100	0.0865	0.0910	0.0918	0.0850 to 0.115	86.5	70.0 to 130	5.07	20.0
BC06191	Beryllium, Total	mg/L	0.0000818	0.000880	0.100	0.0933	0.0924	0.0944	0.0850 to 0.115	93.3	70.0 to 130	0.969	20.0
BC06189	Boron, Dissolved	mg/L	-0.000364	0.0650	1.00	2.25	2.25	0.989	0.850 to 1.15	99.0	70.0 to 130	0.00	20.0
BC06191	Boron, Total	mg/L	-0.000197	0.0650	1.00	1.04	1.03	1.03	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06189	Cadmium, Dissolved	mg/L	0.0000083	0.000147	0.100	0.0978	0.0947	0.102	0.0850 to 0.115	97.7	70.0 to 130	3.22	20.0
BC06191	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.0994	0.102	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC06189	Calcium, Dissolved	mg/L	-0.0109	0.152	5.00	71.2	76.6	4.82	4.25 to 5.75	46.0	70.0 to 130	7.31	20.0
BC06191	Calcium, Total	mg/L	-0.00570	0.152	5.00	4.97	5.07	5.00	4.25 to 5.75	99.4	70.0 to 130	1.99	20.0
BC06191	Chloride	mg/L	0.0429	1.00	10.0	10.2	10.5	10.2	9.00 to 11.0	102	80.0 to 120	2.90	20.0
BC06189	Chromium, Dissolved	mg/L	-0.0000044	0.000440	0.100	0.0974	0.0935	0.0989	0.0850 to 0.115	97.2	70.0 to 130	4.09	20.0
BC06191	Chromium, Total	mg/L	0.0000267	0.000440	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC06189	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.113	0.109	0.100	0.0850 to 0.115	97.3	70.0 to 130	3.60	20.0
BC06191	Cobalt, Total	mg/L	-0.0000009	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06191	Fluoride	mg/L	-0.0197	0.125	2.50	2.59	2.54	2.58	2.25 to 2.75	104	80.0 to 120	1.95	20.0
BC06189	Iron, Dissolved	mg/L	-0.000299	0.0176	0.2	0.465	0.464	0.199	0.170 to 0.230	95.0	70.0 to 130	0.215	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:38

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BC06188

Sample	Analysis	Units	MB	MB				MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike	Standard	Limit			Rec	Limit	Prec			
BC06191	Iron, Total	mg/L	0.00021	0.0176	0.2	0.201	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.00	20.0		
BC06189	Lead, Dissolved	mg/L	0.0000103	0.000147	0.100	0.104	0.101	0.101	0.0850 to 0.115	104	70.0 to 130	2.93	20.0		
BC06191	Lead, Total	mg/L	0.0000047	0.000147	0.100	0.0987	0.0980	0.0999	0.0850 to 0.115	98.7	70.0 to 130	0.712	20.0		
BC06189	Lithium, Dissolved	mg/L	0.000174	0.0154	0.200	0.195	0.189	0.204	0.170 to 0.230	97.5	70.0 to 130	3.12	20.0		
BC06191	Lithium, Total	mg/L	0.000029	0.0154	0.200	0.209	0.208	0.205	0.170 to 0.230	104	70.0 to 130	0.480	20.0		
BC06189	Magnesium, Dissolved	mg/L	-0.00346	0.0462	5.00	27.0	26.6	5.22	4.25 to 5.75	96.0	70.0 to 130	1.49	20.0		
BC06191	Magnesium, Total	mg/L	-0.0180	0.0462	5.00	5.37	5.34	5.37	4.25 to 5.75	107	70.0 to 130	0.560	20.0		
BC06189	Manganese, Dissolved	mg/L	0.0000593	0.0002	0.100	11.3	11.4	0.101	0.0850 to 0.115	200	70.0 to 130	0.881	20.0		
BC06191	Manganese, Total	mg/L	-0.0000365	0.0002	0.100	0.0994	0.0998	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.402	20.0		
BC06191	Mercury, Total by CVAA	mg/L	-0.00012	0.000500	0.004	0.00389	0.00396	0.004	0.00340 to 0.00460	97.2	70.0 to 130	1.78	20.0		
BC06189	Molybdenum, Dissolved	mg/L	0.0000110	0.0002	0.100	0.0966	0.0959	0.0993	0.0850 to 0.115	96.6	70.0 to 130	0.727	20.0		
BC06191	Molybdenum, Total	mg/L	0.0000066	0.0002	0.100	0.0990	0.0962	0.0982	0.0850 to 0.115	99.0	70.0 to 130	2.87	20.0		
BC06189	Potassium, Dissolved	mg/L	0.0254	0.367	10.0	14.6	13.9	10.2	8.50 to 11.5	103	70.0 to 130	4.91	20.0		
BC06191	Potassium, Total	mg/L	-0.00856	0.367	10.0	10.0	10.1	10.6	8.50 to 11.5	100	70.0 to 130	0.995	20.0		
BC06189	Selenium, Dissolved	mg/L	0.0000821	0.00100	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0		
BC06191	Selenium, Total	mg/L	0.0000174	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0		
BC06189	Silicon, Dissolved	mg/L	0.000306	0.0440	1.00	5.27	5.25	1.01	0.850 to 1.15	96.0	70.0 to 130	0.380	20.0		
BC06191	Silicon, Total	mg/L	0.000581	0.0440	1.00	1.03	1.03	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0		
BC06189	Sodium, Dissolved	mg/L	0.00424	0.0660	5.00	77.6	80.2	5.28	4.25 to 5.75	60.0	70.0 to 130	3.30	20.0		
BC06191	Sodium, Total	mg/L	0.00297	0.0660	5.00	5.34	5.32	5.28	4.25 to 5.75	107	70.0 to 130	0.375	20.0		
BC06191	Sulfate	mg/L	0.378	2.0	20.0	21.4	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.41	20.0		
BC06189	Thallium, Dissolved	mg/L	0.0000076	0.000147	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0		

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:38

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BC06188

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC06191	Thallium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.0986	0.100	0.0850 to 0.115		100	70.0 to 130		1.41	20.0
BC06191	Total Organic Carbon	mg/L	0.300	1.00	10.0	10.1	10.0	9.85			101	80.0 to 120		0.995	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:38

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BC06188

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06189	Alkalinity, Total as CaCO3	mg/L					261	51.0	45.0 to 55.0			3.76	10.0
BC06191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.09	0.200	2.00	1.84	-0.117	1.90	1.80 to 2.20	92.0	90.0 to 110	0.00	15.0
BC06189	Solids, Dissolved	mg/L	2.00	25.0			476	59.0	40.0 to 60.0			4.52	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP
Collected: 3/23/22 09:38
Customer ID:
Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 11:04		1.015	1.32	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/7/22 11:55		10.15	63.2	mg/L	0.70035	4.06	
* Iron, Total	4/5/22 07:00	4/7/22 11:04		1.015	0.616	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/7/22 11:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 11:04		1.015	23.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 11:04		1	9.52	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 11:04		1.015	4.45	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 11:55		10.15	69.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:23	4/5/22 09:25		1.015	1.26	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:23	4/5/22 09:56		10.15	68.9	mg/L	0.70035	4.06	RA
* Iron, Dissolved	4/4/22 08:23	4/5/22 09:25		1.015	0.275	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:23	4/5/22 09:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:23	4/5/22 09:25		1.015	22.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:23	4/5/22 09:25		1	9.22	mg/L			
Silicon, Dissolved	4/4/22 08:23	4/5/22 09:25		1.015	4.31	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:23	4/5/22 09:56		10.15	74.6	mg/L	0.3045	4.06	RA
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:36	3/30/22 13:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:36	3/30/22 13:40		1.015	0.0239	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:36	3/30/22 13:40		1.015	0.000236	mg/L	0.000081	0.000203	
* Barium, Total	3/29/22 14:36	3/30/22 13:40		1.015	0.153	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:36	3/30/22 13:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:36	3/30/22 13:40		1.015	0.000204	mg/L	0.000068	0.000203	
* Chromium, Total	3/29/22 14:36	3/30/22 13:40		1.015	0.000381	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:36	3/30/22 13:40		1.015	0.0167	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:36	3/30/22 13:40		1.015	0.0000839	mg/L	0.000068	0.000203	J
* Manganese, Total	3/29/22 14:36	3/30/22 14:06		10.15	11.1	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/29/22 14:36	3/30/22 13:40		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:36	3/30/22 13:40		1.015	4.19	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium, Sodium and Manganese MS/MSD recovery did not meet specification limits.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP
Collected: 3/23/22 09:38
Customer ID:
Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:36	3/30/22 13:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:36	3/30/22 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	0.0000879	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	0.157	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	0.0000923	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	0.000250	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	0.0157	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:59	3/31/22 13:01		10.15	11.1	mg/L	0.001522	0.00203	RA
* Molybdenum, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	4.28	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:59	3/29/22 16:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 21:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/1/22 15:42	4/1/22 15:42		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/4/22 13:40	4/4/22 14:35		1	271	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/29/22 11:23	3/30/22 12:58		1	498	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/4/22 13:40	4/4/22 14:35		1	268	mg/L			
Carbonate Alkalinity, (calc.)	4/4/22 13:40	4/4/22 14:35		1	2.89	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 21:53	3/29/22 21:53		1	1.87	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium, Sodium and Manganese MS/MSD recovery did not meet specification limits.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP

Collected: 3/23/22 09:38

Customer ID:

Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:57	3/28/22 11:57		8	119	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 15:05	3/28/22 15:05		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 13:20	3/29/22 13:20		1	38.4	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/23/22 09:34	3/23/22 09:34			850.17	uS/cm			FA
pH	3/23/22 09:34	3/23/22 09:34			6.14	SU			FA
Temperature	3/23/22 09:34	3/23/22 09:34			17.45	C			FA
Turbidity	3/23/22 09:34	3/23/22 09:34			4.36	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium, Sodium and Manganese MS/MSD recovery did not meet specification limits.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 09:38
Customer ID:
Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BC06189

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC06189	Aluminum, Dissolved	mg/L	-0.000233	0.010	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BC06191	Aluminum, Total	mg/L	0.000484	0.010	0.100	0.0971	0.0998	0.104	0.0850 to 0.115	97.1	70.0 to 130	2.74	20.0
BC06189	Antimony, Dissolved	mg/L	0.000296	0.00100	0.100	0.0895	0.0910	0.0994	0.0850 to 0.115	89.5	70.0 to 130	1.66	20.0
BC06191	Antimony, Total	mg/L	0.000288	0.00100	0.100	0.0968	0.0990	0.0986	0.0850 to 0.115	96.8	70.0 to 130	2.25	20.0
BC06189	Arsenic, Dissolved	mg/L	0.0000073	0.000176	0.100	0.0994	0.0970	0.0994	0.0850 to 0.115	99.3	70.0 to 130	2.44	20.0
BC06191	Arsenic, Total	mg/L	-0.0000254	0.000176	0.100	0.100	0.101	0.105	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06189	Barium, Dissolved	mg/L	-0.0000331	0.00100	0.100	0.257	0.252	0.108	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06191	Barium, Total	mg/L	0.0000209	0.00100	0.100	0.0924	0.0967	0.0965	0.0850 to 0.115	92.4	70.0 to 130	4.55	20.0
BC06189	Beryllium, Dissolved	mg/L	0.0000834	0.000880	0.100	0.0865	0.0910	0.0918	0.0850 to 0.115	86.5	70.0 to 130	5.07	20.0
BC06191	Beryllium, Total	mg/L	0.0000818	0.000880	0.100	0.0933	0.0924	0.0944	0.0850 to 0.115	93.3	70.0 to 130	0.969	20.0
BC06189	Boron, Dissolved	mg/L	-0.000364	0.0650	1.00	2.25	2.25	0.989	0.850 to 1.15	99.0	70.0 to 130	0.00	20.0
BC06191	Boron, Total	mg/L	-0.000197	0.0650	1.00	1.04	1.03	1.03	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06189	Cadmium, Dissolved	mg/L	0.0000083	0.000147	0.100	0.0978	0.0947	0.102	0.0850 to 0.115	97.7	70.0 to 130	3.22	20.0
BC06191	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.0994	0.102	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC06189	Calcium, Dissolved	mg/L	-0.0109	0.152	5.00	71.2	76.6	4.82	4.25 to 5.75	46.0	70.0 to 130	7.31	20.0
BC06191	Calcium, Total	mg/L	-0.00570	0.152	5.00	4.97	5.07	5.00	4.25 to 5.75	99.4	70.0 to 130	1.99	20.0
BC06191	Chloride	mg/L	0.0429	1.00	10.0	10.2	10.5	10.2	9.00 to 11.0	102	80.0 to 120	2.90	20.0
BC06189	Chromium, Dissolved	mg/L	-0.0000044	0.000440	0.100	0.0974	0.0935	0.0989	0.0850 to 0.115	97.2	70.0 to 130	4.09	20.0
BC06191	Chromium, Total	mg/L	0.0000267	0.000440	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC06189	Cobalt, Dissolved	mg/L	0.0000014	0.000147	0.100	0.113	0.109	0.100	0.0850 to 0.115	97.3	70.0 to 130	3.60	20.0
BC06191	Cobalt, Total	mg/L	-0.0000009	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06191	Fluoride	mg/L	-0.0197	0.125	2.50	2.59	2.54	2.58	2.25 to 2.75	104	80.0 to 120	1.95	20.0
BC06189	Iron, Dissolved	mg/L	-0.000299	0.0176	0.2	0.465	0.464	0.199	0.170 to 0.230	95.0	70.0 to 130	0.215	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium, Sodium and Manganese MS/MSD recovery did not meet specification limits.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:38

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BC06189

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06191	Iron, Total	mg/L	0.00021	0.0176	0.2	0.201	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BC06189	Lead, Dissolved	mg/L	0.0000103	0.000147	0.100	0.104	0.101	0.101	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BC06191	Lead, Total	mg/L	0.0000047	0.000147	0.100	0.0987	0.0980	0.0999	0.0850 to 0.115	98.7	70.0 to 130	0.712	20.0
BC06189	Lithium, Dissolved	mg/L	0.000174	0.0154	0.200	0.195	0.189	0.204	0.170 to 0.230	97.5	70.0 to 130	3.12	20.0
BC06191	Lithium, Total	mg/L	0.000029	0.0154	0.200	0.209	0.208	0.205	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BC06189	Magnesium, Dissolved	mg/L	-0.00346	0.0462	5.00	27.0	26.6	5.22	4.25 to 5.75	96.0	70.0 to 130	1.49	20.0
BC06191	Magnesium, Total	mg/L	-0.0180	0.0462	5.00	5.37	5.34	5.37	4.25 to 5.75	107	70.0 to 130	0.560	20.0
BC06189	Manganese, Dissolved	mg/L	0.0000593	0.0002	0.100	11.3	11.4	0.101	0.0850 to 0.115	200	70.0 to 130	0.881	20.0
BC06191	Manganese, Total	mg/L	-0.0000365	0.0002	0.100	0.0994	0.0998	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.402	20.0
BC06191	Mercury, Total by CVAA	mg/L	-0.00012	0.000500	0.004	0.00389	0.00396	0.004	0.00340 to 0.00460	97.2	70.0 to 130	1.78	20.0
BC06189	Molybdenum, Dissolved	mg/L	0.0000110	0.0002	0.100	0.0966	0.0959	0.0993	0.0850 to 0.115	96.6	70.0 to 130	0.727	20.0
BC06191	Molybdenum, Total	mg/L	0.0000066	0.0002	0.100	0.0990	0.0962	0.0982	0.0850 to 0.115	99.0	70.0 to 130	2.87	20.0
BC06189	Potassium, Dissolved	mg/L	0.0254	0.367	10.0	14.6	13.9	10.2	8.50 to 11.5	103	70.0 to 130	4.91	20.0
BC06191	Potassium, Total	mg/L	-0.00856	0.367	10.0	10.0	10.1	10.6	8.50 to 11.5	100	70.0 to 130	0.995	20.0
BC06189	Selenium, Dissolved	mg/L	0.0000821	0.00100	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06191	Selenium, Total	mg/L	0.0000174	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06189	Silicon, Dissolved	mg/L	0.000306	0.0440	1.00	5.27	5.25	1.01	0.850 to 1.15	96.0	70.0 to 130	0.380	20.0
BC06191	Silicon, Total	mg/L	0.000581	0.0440	1.00	1.03	1.03	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06189	Sodium, Dissolved	mg/L	0.00424	0.0660	5.00	77.6	80.2	5.28	4.25 to 5.75	60.0	70.0 to 130	3.30	20.0
BC06191	Sodium, Total	mg/L	0.00297	0.0660	5.00	5.34	5.32	5.28	4.25 to 5.75	107	70.0 to 130	0.375	20.0
BC06191	Sulfate	mg/L	0.378	2.0	20.0	21.4	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.41	20.0
BC06189	Thallium, Dissolved	mg/L	0.0000076	0.000147	0.100	0.104	0.100	0.101	0.0850 to 0.115	104	70.0 to 130	3.92	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium, Sodium and Manganese MS/MSD recovery did not meet specification limits.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:38

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BC06189

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC06191	Thallium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.0986	0.100	0.0850 to 0.115		100	70.0 to 130		1.41	20.0
BC06191	Total Organic Carbon	mg/L	0.300	1.00	10.0	10.1	10.0	9.85			101	80.0 to 120		0.995	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Dissolved Calcium, Sodium and Manganese MS/MSD recovery did not meet specification limits.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:38

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BC06189

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06189	Alkalinity, Total as CaCO3	mg/L					261	51.0	45.0 to 55.0			3.76	10.0
BC06191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.09	0.200	2.00	1.84	-0.117	1.90	1.80 to 2.20	92.0	90.0 to 110	0.00	15.0
BC06189	Solids, Dissolved	mg/L	2.00	25.0			476	59.0	40.0 to 60.0			4.52	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals. Dissolved Calcium, Sodium and Manganese MS/MSD recovery did not meet specification limits.

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/23/22 10:10
Customer ID:
Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 11:06		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/7/22 11:06		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/5/22 07:00	4/7/22 11:06		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/7/22 11:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 11:06		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/5/22 07:00	4/7/22 11:06		1	Not Detected	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 11:06		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/5/22 07:00	4/7/22 11:06		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:36	3/30/22 13:44		1.015	0.000314	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:36	3/30/22 13:44		1.015	0.000404	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:36	3/30/22 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 21:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	4/1/22 15:43	4/1/22 15:43		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/29/22 11:23	3/30/22 12:58		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/23/22 10:10
Customer ID:
Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 22:12	3/29/22 22:12		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:59	3/28/22 11:59		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 15:06	3/28/22 15:06		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 13:22	3/29/22 13:22		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/23/22 10:10

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06190

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06191	Aluminum, Total	mg/L	0.000484	0.010	0.100	0.0971	0.0998	0.104	0.0850 to 0.115	97.1	70.0 to 130	2.74	20.0
BC06191	Antimony, Total	mg/L	0.000288	0.00100	0.100	0.0968	0.0990	0.0986	0.0850 to 0.115	96.8	70.0 to 130	2.25	20.0
BC06191	Arsenic, Total	mg/L	-0.0000254	0.000176	0.100	0.100	0.101	0.105	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06191	Barium, Total	mg/L	0.0000209	0.00100	0.100	0.0924	0.0967	0.0965	0.0850 to 0.115	92.4	70.0 to 130	4.55	20.0
BC06191	Beryllium, Total	mg/L	0.0000818	0.000880	0.100	0.0933	0.0924	0.0944	0.0850 to 0.115	93.3	70.0 to 130	0.969	20.0
BC06191	Boron, Total	mg/L	-0.000197	0.0650	1.00	1.04	1.03	1.03	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06191	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.0994	0.102	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC06191	Calcium, Total	mg/L	-0.00570	0.152	5.00	4.97	5.07	5.00	4.25 to 5.75	99.4	70.0 to 130	1.99	20.0
BC06191	Chloride	mg/L	0.0429	1.00	10.0	10.2	10.5	10.2	9.00 to 11.0	102	80.0 to 120	2.90	20.0
BC06191	Chromium, Total	mg/L	0.0000267	0.000440	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC06191	Cobalt, Total	mg/L	-0.0000009	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06191	Fluoride	mg/L	-0.0197	0.125	2.50	2.59	2.54	2.58	2.25 to 2.75	104	80.0 to 120	1.95	20.0
BC06191	Iron, Total	mg/L	0.00021	0.0176	0.2	0.201	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BC06191	Lead, Total	mg/L	0.0000047	0.000147	0.100	0.0987	0.0980	0.0999	0.0850 to 0.115	98.7	70.0 to 130	0.712	20.0
BC06191	Lithium, Total	mg/L	0.000029	0.0154	0.200	0.209	0.208	0.205	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BC06191	Magnesium, Total	mg/L	-0.0180	0.0462	5.00	5.37	5.34	5.37	4.25 to 5.75	107	70.0 to 130	0.560	20.0
BC06191	Manganese, Total	mg/L	-0.0000365	0.0002	0.100	0.0994	0.0998	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.402	20.0
BC06191	Mercury, Total by CVAA	mg/L	-0.00012	0.000500	0.004	0.00389	0.00396	0.004	0.00340 to 0.00460	97.2	70.0 to 130	1.78	20.0
BC06191	Molybdenum, Total	mg/L	0.0000066	0.0002	0.100	0.0990	0.0962	0.0982	0.0850 to 0.115	99.0	70.0 to 130	2.87	20.0
BC06191	Potassium, Total	mg/L	-0.00856	0.367	10.0	10.0	10.1	10.6	8.50 to 11.5	100	70.0 to 130	0.995	20.0
BC06191	Selenium, Total	mg/L	0.0000174	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06191	Silicon, Total	mg/L	0.000581	0.0440	1.00	1.03	1.03	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06191	Sodium, Total	mg/L	0.00297	0.0660	5.00	5.34	5.32	5.28	4.25 to 5.75	107	70.0 to 130	0.375	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/23/22 10:10

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06190

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC06191	Sulfate	mg/L	0.378	2.0	20.0	21.4	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.41	20.0
BC06191	Thallium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.0986	0.100	0.0850 to 0.115	100	70.0 to 130	1.41	20.0
BC06191	Total Organic Carbon	mg/L	0.300	1.00	10.0	10.1	10.0	9.85		101	80.0 to 120	0.995	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/23/22 10:10

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06190

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.09	0.200	2.00	1.84	-0.117	1.90	1.80 to 2.20	92.0	90.0 to 110	0.00	15.0
BC06189	Solids, Dissolved	mg/L	2.00	25.0			476	59.0	40.0 to 60.0			4.52	10.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/23/22 10:15
Customer ID:
Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/5/22 07:00	4/7/22 11:09		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/5/22 07:00	4/7/22 11:09		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	4/5/22 07:00	4/7/22 11:09		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	4/5/22 07:00	4/7/22 11:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/5/22 07:00	4/7/22 11:09		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 11:09		1	Not Detected	mg/L				
Silicon, Total	4/5/22 07:00	4/7/22 11:09		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	4/5/22 07:00	4/7/22 11:09		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/29/22 14:36	3/30/22 13:47		1.015	0.000332	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	3/29/22 14:36	3/30/22 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 21:42		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: ELH								
* Nitrogen, Nitrate/Nitrite	4/1/22 15:44	4/1/22 15:44		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	3/29/22 11:23	3/30/22 12:58		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/23/22 10:15
Customer ID:
Submittal Date: 3/24/22 11:42

Laboratory ID Number: BC06191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 22:26	3/29/22 22:26		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 12:00	3/28/22 12:00		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 15:07	3/28/22 15:07		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 13:23	3/29/22 13:23		1	0.605	mg/L	0.6	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/23/22 10:15

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06191

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06191	Aluminum, Total	mg/L	0.000484	0.010	0.100	0.0971	0.0998	0.104	0.0850 to 0.115	97.1	70.0 to 130	2.74	20.0
BC06191	Antimony, Total	mg/L	0.000288	0.00100	0.100	0.0968	0.0990	0.0986	0.0850 to 0.115	96.8	70.0 to 130	2.25	20.0
BC06191	Arsenic, Total	mg/L	-0.0000254	0.000176	0.100	0.100	0.101	0.105	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06191	Barium, Total	mg/L	0.0000209	0.00100	0.100	0.0924	0.0967	0.0965	0.0850 to 0.115	92.4	70.0 to 130	4.55	20.0
BC06191	Beryllium, Total	mg/L	0.0000818	0.000880	0.100	0.0933	0.0924	0.0944	0.0850 to 0.115	93.3	70.0 to 130	0.969	20.0
BC06191	Boron, Total	mg/L	-0.000197	0.0650	1.00	1.04	1.03	1.03	0.850 to 1.15	104	70.0 to 130	0.966	20.0
BC06191	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.0994	0.102	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BC06191	Calcium, Total	mg/L	-0.00570	0.152	5.00	4.97	5.07	5.00	4.25 to 5.75	99.4	70.0 to 130	1.99	20.0
BC06191	Chloride	mg/L	0.0429	1.00	10.0	10.2	10.5	10.2	9.00 to 11.0	102	80.0 to 120	2.90	20.0
BC06191	Chromium, Total	mg/L	0.0000267	0.000440	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC06191	Cobalt, Total	mg/L	-0.0000009	0.000147	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06191	Fluoride	mg/L	-0.0197	0.125	2.50	2.59	2.54	2.58	2.25 to 2.75	104	80.0 to 120	1.95	20.0
BC06191	Iron, Total	mg/L	0.00021	0.0176	0.2	0.201	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BC06191	Lead, Total	mg/L	0.0000047	0.000147	0.100	0.0987	0.0980	0.0999	0.0850 to 0.115	98.7	70.0 to 130	0.712	20.0
BC06191	Lithium, Total	mg/L	0.000029	0.0154	0.200	0.209	0.208	0.205	0.170 to 0.230	104	70.0 to 130	0.480	20.0
BC06191	Magnesium, Total	mg/L	-0.0180	0.0462	5.00	5.37	5.34	5.37	4.25 to 5.75	107	70.0 to 130	0.560	20.0
BC06191	Manganese, Total	mg/L	-0.0000365	0.0002	0.100	0.0994	0.0998	0.103	0.0850 to 0.115	99.4	70.0 to 130	0.402	20.0
BC06191	Mercury, Total by CVAA	mg/L	-0.00012	0.000500	0.004	0.00389	0.00396	0.004	0.00340 to 0.00460	97.2	70.0 to 130	1.78	20.0
BC06191	Molybdenum, Total	mg/L	0.0000066	0.0002	0.100	0.0990	0.0962	0.0982	0.0850 to 0.115	99.0	70.0 to 130	2.87	20.0
BC06191	Potassium, Total	mg/L	-0.00856	0.367	10.0	10.0	10.1	10.6	8.50 to 11.5	100	70.0 to 130	0.995	20.0
BC06191	Selenium, Total	mg/L	0.0000174	0.00100	0.100	0.102	0.101	0.105	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06191	Silicon, Total	mg/L	0.000581	0.0440	1.00	1.03	1.03	1.02	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BC06191	Sodium, Total	mg/L	0.00297	0.0660	5.00	5.34	5.32	5.28	4.25 to 5.75	107	70.0 to 130	0.375	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/23/22 10:15

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06191

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC06191	Sulfate	mg/L	0.378	2.0	20.0	21.4	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.41	20.0		
BC06191	Thallium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.0986	0.100	0.0850 to 0.115	100	70.0 to 130	1.41	20.0		
BC06191	Total Organic Carbon	mg/L	0.300	1.00	10.0	10.1	10.0	9.85		101	80.0 to 120	0.995	20.0		

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/23/22 10:15

Customer ID:

Delivery Date: 3/24/22 11:42

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06191

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06191	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.09	0.200	2.00	1.84	-0.117	1.90	1.80 to 2.20	92.0	90.0 to 110	0.00	15.0
BC06189	Solids, Dissolved	mg/L	2.00	25.0			476	59.0	40.0 to 60.0			4.52	10.0

Comments:

Definitions

Project Number: WMWGREAP_1357

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrite/Nitrate; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC bottles pH<2. LBM 3/24/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	03/23/2022	09:38	7	Groundwater		BC06188
MW-52HO DUP	03/23/2022	09:38	7	Sample Duplicate		BC06189
FB-1	03/23/2022	10:10	5	Field Blank		BC06190
EB-1	03/23/2022	10:15	5	Equipment Blank		BC06191

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Laura M. Bell</i>	03/24/2022 09:49

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1357	
Cooler Temp	1.0 degrees C	
Thermometer ID	6603-34819-1-1	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Anthony Goggins	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 Sulfide	250 mL	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: MS/MSD collected @ MW-52HO. Sulfide bottles pH>9. LBM 3/24/22
Correcting bottle count to 4 for MW-52HO. LBM 4/8/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	03/23/2022	09:38	4	Groundwater		BC06192
MW-52HO DUP	03/23/2022	09:38	2	Sample Duplicate		BC06193
FB-1	03/23/2022	10:10	2	Field Blank		BC06194
EB-1	03/23/2022	10:15	2	Equipment Blank		BC06195

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Laura Meyer</i>	03/24/2022 09:48

SmarTroll ID	7586-41442-5-1
Turbidity ID	4677-23343-
Sample Event	1357

All metals and radiological bottles have pH < 2

Cooler Temp	1.0 degrees C
Thermometer ID	6603-34819-1-1
pH Strip ID	9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL

April 01, 2022

Laura Midkiff
Alabama Power
744 Highway 87
GSC 8
Calera, AL 35040

RE: Project: WMWGREAP_1357
Pace Project No.: 20238671

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - New Orleans

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

Sincerely,



Karen Brown
karen.brown@pacelabs.com
(504)469-0333
Project Manager

Enclosures

cc: Renee Jernigan, Alabama Power
Trinity B. Williams, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGREAP_1357
Pace Project No.: 20238671

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGREAP_1357

Pace Project No.: 20238671

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20238671001	BC06192 MW-52HO	Water	03/23/22 09:38	03/26/22 04:00
20238671002	BC06193 MW-52HO DUP	Water	03/23/22 09:38	03/26/22 04:00
20238671003	BC06194 FB-1	Water	03/23/22 10:10	03/26/22 04:00
20238671004	BC06195 EB-1	Water	03/23/22 10:15	03/26/22 04:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1357
Pace Project No.: 20238671

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20238671001	BC06192 MW-52HO	SM 4500-S-2 D	RVJ	1
20238671002	BC06193 MW-52HO DUP	SM 4500-S-2 D	RVJ	1
20238671003	BC06194 FB-1	SM 4500-S-2 D	RVJ	1
20238671004	BC06195 EB-1	SM 4500-S-2 D	RVJ	1

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1357
Pace Project No.: 20238671

Method: SM 4500-S-2 D
Description: 4500S2D Sulfide, Total
Client: Alabama Power
Date: April 01, 2022

General Information:

4 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 251121

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20238671001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1193180)
- Sulfide, Total

QC Batch: 251511

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20238671002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1194666)
- Sulfide, Total

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1357

Pace Project No.: 20238671

Sample: BC06192 MW-52HO **Lab ID: 20238671001** Collected: 03/23/22 09:38 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/27/22 11:54	18496-25-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1357

Pace Project No.: 20238671

Sample: BC06193 MW-52HO DUP **Lab ID: 20238671002** Collected: 03/23/22 09:38 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 13:32	18496-25-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1357

Pace Project No.: 20238671

Sample: BC06194 FB-1 **Lab ID: 20238671003** Collected: 03/23/22 10:10 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 13:34	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1357

Pace Project No.: 20238671

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: BC06195 EB-1									
Lab ID: 20238671004									
Collected: 03/23/22 10:15									
Received: 03/26/22 04:00									
Matrix: Water									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:01	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGREAP_1357
Pace Project No.: 20238671

QC Batch: 251121 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20238671001

METHOD BLANK: 1193177 Matrix: Water
Associated Lab Samples: 20238671001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/27/22 11:54	

LABORATORY CONTROL SAMPLE: 1193178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.20	101	90-110	

MATRIX SPIKE SAMPLE: 1193180

Parameter	Units	20238671001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.11	54	75-125	M1

SAMPLE DUPLICATE: 1193179

Parameter	Units	20238671001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGREAP_1357
Pace Project No.: 20238671

QC Batch: 251511	Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D	Analysis Description: 4500S2D Sulfide, Total
	Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20238671002, 20238671003, 20238671004

METHOD BLANK: 1194663 Matrix: Water
Associated Lab Samples: 20238671002, 20238671003, 20238671004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/30/22 13:20	

LABORATORY CONTROL SAMPLE: 1194664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.20	98	90-110	

MATRIX SPIKE SAMPLE: 1194666

Parameter	Units	20238671002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.11	54	75-125	M1

SAMPLE DUPLICATE: 1194665

Parameter	Units	20238671002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGREAP_1357

Pace Project No.: 20238671

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1357

Pace Project No.: 20238671

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20238671001	BC06192 MW-52HO	SM 4500-S-2 D	251121		
20238671002	BC06193 MW-52HO DUP	SM 4500-S-2 D	251511		
20238671003	BC06194 FB-1	SM 4500-S-2 D	251511		
20238671004	BC06195 EB-1	SM 4500-S-2 D	251511		

REPORT OF LABORATORY ANALYSIS

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WO# : 20238671

CHAIN-OF-CUSTODY / Analytical Request Do

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must

Section A
 Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkiff@southernco.com
 Phone: 205-664-6197 | Fax
 Requested Due Date: Normal

Section B
 Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Catton & Renee Jernigan
 Purchase Order #: APC10755638
 Project Name: Plant Greene County Ash Pond
 Project Number: VMWGREAP_1357

Section C
 Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Karen Brown
 Pace Profile #: 17210

Section D
 Regulatory Agency: AL
 State / Location: AL

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique</small>	Description	Station Name Location_Code	Site Name Facility_ID	COLLECTED		Matrix Spike/Matrix Spike Duplicate	Sample Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START		Requested Analysis Filtered (Y/N)				TIME	DATE	ACCEPTED BY / AFFILIATION	TIME	SAMPLE CONDITIONS														
					DATE	TIME						Preservatives	Y/N	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide					Residual Chlorine (Y/N)	Received on	Ice (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)									
1	BC06192	MW-52HO	APCO-GC-AP-MW-52HO	APCO_GreeneCounty_AshPond						GW	G	3/23/2022	9:38																							
2	BC06193	MW-52HO DUP	APCO-GC-AP-MW-52HO	APCO_GreeneCounty_AshPond			X			GW	G	3/23/2022	9:38																							
3	BC06194	FB-1	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond						GW	G	3/23/2022	10:10																							
4	BC06195	EB-1	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond						GW	G	3/23/2022	10:15																							
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Laura Midkiff/ APC-GTL

DATE: 3/24/2022

TIME: 13:36

Signature: *G.H. 3/24/2022*

Signature: *G.H. 3/24/2022*

ACCEPTED BY / AFFILIATION: *G.H. 3/24/2022*

DATE: *3/24/2022*

TIME: *15:54*

SAMPLER NAME AND SIGNATURE: *Anthony Goggins*

PRINT Name of SAMPLER: Anthony Goggins

SIGNATURE of SAMPLER: *Anthony Goggins*

DATE Signed: _____



Sample Condition Upo

WO#: 20238671

1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

PM: KHB

Due Date: 04/07/22

CLIENT: 20-Alabama

P

Courier: Pace Courier Hired Courier Fed X UPS DHL USPS Customer Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: Yes No

Thermometer Used: Therm Fisher IR 7 Therm Fisher IR 10

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/26/2022 [Signature]

Temp must be measured from Temperature blank when present

Comments:

Temperature Blank Present?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	1
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Chain of Custody Complete:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8
Filtered vol. Rec. for Diss. tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10
All containers received within manufacture's precautionary and/or expiration dates.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15

If No, was preservative added? Yes No
If added record lot no.: HNO3 _____ H2SO4 _____

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

May 02, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGREAP_1357
Pace Project No.: 30476470

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power
Laura Midkiff, Alabama Power



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: WMWGREAP_1357
Pace Project No.: 30476470

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGREAP_1357

Pace Project No.: 30476470

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30476470001	BC06192 MW-52HO	Water	03/23/22 09:38	03/29/22 22:00
30476470002	BC06192 MW-52HO MS	Water	03/23/22 09:38	03/29/22 22:00
30476470003	BC06192 MW-52HO MSD	Water	03/23/22 09:38	03/29/22 22:00
30476470004	BC06193 MW-52HO DUP	Water	03/23/22 09:38	03/29/22 22:00
30476470005	BC06194 FB-1	Water	03/23/22 10:10	03/29/22 22:00
30476470006	BC06195 EB-1	Water	03/23/22 10:15	03/29/22 22:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1357
Pace Project No.: 30476470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30476470001	BC06192 MW-52HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476470002	BC06192 MW-52HO MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30476470003	BC06192 MW-52HO MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30476470004	BC06193 MW-52HO DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476470005	BC06194 FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476470006	BC06195 EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1357

Pace Project No.: 30476470

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: May 02, 2022

General Information:

6 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1357
Pace Project No.: 30476470

Method: EPA 9320
Description: 9320 Radium 228
Client: Alabama Power
Date: May 02, 2022

General Information:

6 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1357

Pace Project No.: 30476470

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: May 02, 2022

General Information:

4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1357

Pace Project No.: 30476470

Sample: BC06192 MW-52HO **Lab ID: 30476470001** Collected: 03/23/22 09:38 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.560 ± 0.245 (0.270) C:101% T:NA	pCi/L	04/26/22 11:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.439U ± 0.327 (0.629) C:72% T:87%	pCi/L	04/18/22 15:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.999 ± 0.572 (0.899)	pCi/L	04/27/22 12:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1357

Pace Project No.: 30476470

Sample: BC06192 MW-52HO MS **Lab ID: 30476470002** Collected: 03/23/22 09:38 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	99.21 %REC ± NA (NA) C:NA T:NA	pCi/L	04/26/22 11:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	96.87 %REC ± NA (NA) C:NA T:NA	pCi/L	04/18/22 15:56	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1357

Pace Project No.: 30476470

Sample: BC06192 MW-52HO MSD **Lab ID: 30476470003** Collected: 03/23/22 09:38 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	110.06 %REC 10.37RPD ± NA (NA) C:NA T:NA	pCi/L	04/26/22 11:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	92.00 %REC 5.16 RPD ± NA (NA) C:NA T:NA	pCi/L	04/18/22 15:56	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1357

Pace Project No.: 30476470

Sample: BC06193 MW-52HO DUP **Lab ID: 30476470004** Collected: 03/23/22 09:38 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.671 ± 0.281 (0.303) C:98% T:NA	pCi/L	04/26/22 11:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.506U ± 0.383 (0.749) C:71% T:84%	pCi/L	04/18/22 15:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.18 ± 0.664 (1.05)	pCi/L	04/27/22 12:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1357

Pace Project No.: 30476470

Sample: BC06194 FB-1 **Lab ID: 30476470005** Collected: 03/23/22 10:10 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0115U ± 0.0973 (0.267) C:99% T:NA	pCi/L	04/26/22 11:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.428U ± 0.318 (0.608) C:73% T:89%	pCi/L	04/18/22 15:56	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.440U ± 0.415 (0.875)	pCi/L	04/27/22 12:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1357

Pace Project No.: 30476470

Sample: BC06195 EB-1 **Lab ID: 30476470006** Collected: 03/23/22 10:15 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.141U ± 0.150 (0.291) C:101% T:NA	pCi/L	04/26/22 11:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.243U ± 0.324 (0.690) C:77% T:84%	pCi/L	04/18/22 15:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.384U ± 0.474 (0.981)	pCi/L	04/27/22 12:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1357

Pace Project No.: 30476470

QC Batch: 494964

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30476470001, 30476470002, 30476470003, 30476470004, 30476470005, 30476470006

METHOD BLANK: 2394282

Matrix: Water

Associated Lab Samples: 30476470001, 30476470002, 30476470003, 30476470004, 30476470005, 30476470006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.432 ± 0.355 (0.710) C:74% T:87%	pCi/L	04/18/22 12:55	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1357

Pace Project No.: 30476470

QC Batch: 494692

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30476470001, 30476470002, 30476470003, 30476470004, 30476470005, 30476470006

METHOD BLANK: 2393433

Matrix: Water

Associated Lab Samples: 30476470001, 30476470002, 30476470003, 30476470004, 30476470005, 30476470006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.118 ± 0.0948 (0.171) C:101% T:NA	pCi/L	04/26/22 09:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGREAP_1357

Pace Project No.: 30476470

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1357
Pace Project No.: 30476470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30476470001	BC06192 MW-52HO	EPA 9315	494692		
30476470002	BC06192 MW-52HO MS	EPA 9315	494692		
30476470003	BC06192 MW-52HO MSD	EPA 9315	494692		
30476470004	BC06193 MW-52HO DUP	EPA 9315	494692		
30476470005	BC06194 FB-1	EPA 9315	494692		
30476470006	BC06195 EB-1	EPA 9315	494692		
30476470001	BC06192 MW-52HO	EPA 9320	494964		
30476470002	BC06192 MW-52HO MS	EPA 9320	494964		
30476470003	BC06192 MW-52HO MSD	EPA 9320	494964		
30476470004	BC06193 MW-52HO DUP	EPA 9320	494964		
30476470005	BC06194 FB-1	EPA 9320	494964		
30476470006	BC06195 EB-1	EPA 9320	494964		
30476470001	BC06192 MW-52HO	Total Radium Calculation	500399		
30476470004	BC06193 MW-52HO DUP	Total Radium Calculation	500399		
30476470005	BC06194 FB-1	Total Radium Calculation	500399		
30476470006	BC06195 EB-1	Total Radium Calculation	500399		

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WO#: 30476470



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Alabama Power Company	Report To:	Laura Midkiff	Attention:	Laura Midkiff
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Brooke Caton & Renee Jernigan	Company Name:	Alabama Power Co.
Email To:	lmidkiff@southernco.com	Purchase Order #:	APC10755638	Address:	744 Highway 87 GSC Bldg #8 CCR
Phone:	205-664-6197 Fax	Project Name:	Plant Greene County Ash Pond	Pace Quote:	CCR
Requested Due Date:	Normal	Project Number:	WMMWGREP_1357	Pace Project Manager:	Skyler Richmond
				Pace Profile #:	13805
				State / Location:	AL
				Regulatory Agency:	AL

ITEM #	Description	Station Name Location Code	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Unpreserved	NaOH+ZnAcetate	HNO3	Preservatives	Analyses Test Y/N	Requested Analysis Filtered (Y/N)	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Intact Samples (Y/N)								
									DATE	TIME																		DATE	TIME						
1	BC06192	MW-52HO	APCO-GC-AP-MW-52HO	APCO_GreeneCounty_AshPond	X		GW G	G	3/23/2022	9:38	3				X	X	X	X	X	X															
2	BC06193	MW-52HO DUP	APCO-GC-AP-MW-52HO	APCO_GreeneCounty_AshPond	X		GW G	G	3/23/2022	9:38	1				X	X	X	X	X	X															
3	BC06194	FB-1	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond			GW G	G	3/23/2022	10:10	1				X	X	X	X	X	X															
4	BC06195	EB-1	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond			GW G	G	3/23/2022	10:15	1				X	X	X	X	X	X															
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																									
		Laura Midkiff APC GTL		3/25/2022	9:38	Anthony Goggins		3-30-22	9:25																										

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:

Anthony Goggins
 DATE Signed:

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5701 6584 7599

Label AF
LIMS Login VPINC

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:	
				<u>1002811</u>	<u>VPINC</u>	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.		
Chain of Custody Relinquished:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.	<u>No Signature</u>	
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.		
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.		
-Includes date/time/ID Matrix: <u>WT</u>						
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.		
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.		
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.		
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.		
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.		
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.		
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.		
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.		
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.		
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	<u>AF</u>	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix						
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed	<u>AF</u>	Date/time of preservation
				Lot # of added preservative		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.		
Trip Blank Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18.		
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed:	<u>AF</u>	Date: <u>04/01/22</u> Survey Meter SNI <u>503</u>

WO#: 30476470

PM: SCR Due Date: 04/20/22 CLIENT: ALABAMA POWER

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 4/4/2022
Worklist: 65909
Matrix: DW

Method Blank Assessment	
MB Sample ID	2393433
MB concentration:	0.118
M/B Counting Uncertainty:	0.093
MB MDC:	0.171
MB Numerical Performance Indicator:	2.49
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	4/26/2022	LCSD65909	4/26/2022
Spike I.D.:	19-033	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.028	24.028	24.028
Volume Used (mL):	0.10	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.515	0.515
Target Conc. (pCi/L, g, F):	4.805	4.667	4.667
Uncertainty (Calculated):	0.058	0.056	0.056
Result (pCi/L, g, F):	5.079	4.651	4.651
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.464	0.438	0.438
Numerical Performance Indicator:	1.15	-0.07	-0.07
Percent Recovery:	105.70%	99.64%	99.64%
Status vs Numerical Indicator:	N/A	N/A	N/A
Status vs Recovery:	Pass	Pass	Pass
Upper % Recovery Limits:	125%	125%	125%
Lower % Recovery Limits:	75%	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS65909
Duplicate Sample I.D.:	LCS65909
Sample Result (pCi/L, g, F):	5.079
Sample Duplicate Result (pCi/L, g, F):	4.651
Sample Result Counting Uncertainty (pCi/L, g, F):	0.464
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.438
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.314
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.90%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Mu427/22

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/23/2022	3/23/2022	3/23/2022
Sample I.D.:	30476468001	30476468001	30476470001
Sample MS I.D.:	30476468002	30476468002	30476470002
Sample MSD I.D.:	30476468003	30476468003	30476470003
Spike I.D.:	19-033	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029	24.029
Spike Volume Used in MS (mL):	0.20	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20	0.20
MS Aliquot (L, g, F):	0.253	0.253	0.255
MS Target Conc. (pCi/L, g, F):	18.994	18.994	18.818
MSD Aliquot (L, g, F):	0.254	0.254	0.254
MSD Target Conc. (pCi/L, g, F):	18.934	18.934	18.884
MS Spike Uncertainty (calculated):	0.228	0.228	0.226
MSD Spike Uncertainty (calculated):	0.227	0.227	0.227
Sample Result:	0.469	0.469	0.560
Sample Result Counting Uncertainty (pCi/L, g, F):	0.229	0.229	0.231
Sample Matrix Spike Result:	18.357	18.357	19.229
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.237	1.237	1.250
Sample Matrix Spike Duplicate Result:	19.508	19.508	21.343
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.257	1.257	1.330
MS Numerical Performance Indicator:	-1.697	-1.697	-0.226
MSD Numerical Performance Indicator:	0.158	0.158	2.719
MS Percent Recovery:	94.18%	94.18%	99.21%
MSD Percent Recovery:	100.55%	100.55%	110.06%
MS Status vs Numerical Indicator:	N/A	N/A	N/A
MSD Status vs Numerical Indicator:	N/A	N/A	N/A
MS Status vs Recovery:	Pass	Pass	Pass
MSD Status vs Recovery:	Pass	Pass	Pass
MS/MSD Upper % Recovery Limits:	125%	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30476468001
Sample MS I.D.:	30476468002
Sample MSD I.D.:	30476468003
Sample Matrix Spike Result:	18.357
Sample Matrix Spike Duplicate Result:	1.237
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.257
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.257
Duplicate Numerical Performance Indicator:	-1.279
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	6.55%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

uamu/2/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 4/13/2022
Worklist: 65978
Matrix: WVI

Method Blank Assessment

MB Sample ID: 2394282
MB concentration: 0.432
MB 2 Sigma CSU: 0.355
MB MDC: 0.710
MB Numerical Performance Indicator: 2.38
MB Status vs Numerical Indicator: Warning
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

LCSID (Y or N)?	N
LCS65978	LCS065978
4/18/2022	

Count Date: 4/18/2022
Spike I.D.: 22-016
Decay Corrected Spike Concentration (pCi/mL): 36.063
Volume Used (mL): 0.10
Aliquot Volume (L, g, F): 0.807
Target Conc. (pCi/L, g, F): 4.468
Uncertainty (Calculated): 0.219
Result (pCi/L, g, F): 5.259
LCS/LCSD 2 Sigma CSU (pCi/L, g, F): 1.189
Numerical Performance Indicator: 1.28
Percent Recovery: 117.70%
Status vs Numerical Indicator: N/A
Status vs Recovery: Pass
Upper % Recovery Limits: 135%
Lower % Recovery Limits: 60%

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Duplicate Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

See Below ##

Sample Matrix Spike Control Assessment

Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample I.D.:	30476468001	30476470001
Sample MS I.D.:	30476468002	30476470002
Sample MSD I.D.:	30476468003	30476470003
Spike I.D.:	22-016	22-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.376	36.376
Spike Volume Used in MS (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.808	0.817
MS Target Conc. (pCi/L, g, F):	9.001	8.908
MSD Aliquot (L, g, F):	0.812	0.821
MSD Target Conc. (pCi/L, g, F):	8.962	8.867
MS Spike Uncertainty (calculated):	0.441	0.437
MSD Spike Uncertainty (calculated):	0.439	0.434
Sample Result:	0.565	0.439
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.325	0.327
Sample Matrix Spike Result:	9.021	9.068
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.800	1.822
Sample Matrix Spike Duplicate Result:	9.401	8.596
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.877	1.753
MS Numerical Performance Indicator:	-0.568	-0.288
MSD Numerical Performance Indicator:	-0.127	-0.758
MS Percent Recovery:	93.94%	98.87%
MSD Percent Recovery:	98.58%	92.00%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	30476468001	30476470001
Sample MS I.D.:	30476468002	30476470002
Sample MSD I.D.:	30476468003	30476470003
Spike I.D.:	22-016	22-016
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	9.021	9.068
Sample Matrix Spike Duplicate Result:	9.401	8.596
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.877	1.753
Duplicate Numerical Performance Indicator:	-0.286	0.366
Duplicate on the Percent Recoveries MS/MSD Duplicate RPD:	4.82%	5.16%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Null/19/22

Null/19/22

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

Field Case Narrative



Greene County Ash Pond

2022 Strong Event 1

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

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
 - Field Blank 1 (FB-1) had results above the Reporting Limit (RL) for Barium.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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

Analytical Report



Sample Group : WMWGREAP_1356

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

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

Attention : Dustin Brooks & Greg Dyer

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

April 27, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2022.04.27
12:43:13 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, c=US
United States, i=US United States
e=t.durante@southernco.com
Reason: I am approving this document
Location:
Date: 2022-04-27 14:20-05:00



REPORT OF LABORATORY ANALYSIS

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



Case Narrative

Total Metals ICP

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	722503	WMWGREAP_1356
BC06179	722503	WMWGREAP_1356
BC06180	722503	WMWGREAP_1356
BC06181	722503	WMWGREAP_1356
BC06182	722503	WMWGREAP_1356

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06178	Calcium	10.15
BC06180	Calcium	10.15
BC06181	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	722116	WMWGREAP_1356
BC06180	722116	WMWGREAP_1356
BC06181	722116	WMWGREAP_1356

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC06181 Calcium MS/MSD spike levels were <30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
- 7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06178	Calcium	10.15
BC06180	Calcium	10.15
BC06181	Calcium	10.15

- 8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	722381	WMWGREAP_1356
BC06179	722381	WMWGREAP_1356
BC06180	722381	WMWGREAP_1356
BC06181	722381	WMWGREAP_1356
BC06182	722381	WMWGREAP_1356

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06178	Manganese	10.15
BC06180	Manganese	10.15
BC06181	Manganese	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	722298	WMWGREAP_1356
BC06180	722298	WMWGREAP_1356
BC06181	722298	WMWGREAP_1356

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC06181 Manganese MS/MSD spike levels were <30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
- 7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06178	Manganese	10.15
BC06180	Manganese	10.15
BC06181	Manganese	10.15

- 8. The raw data results are shown with dilution factors included.

Mercury

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	721864	WMWGREAP_1356
BC06179	721864	WMWGREAP_1356
BC06180	721864	WMWGREAP_1356
BC06181	721864	WMWGREAP_1356
BC06182	721864	WMWGREAP_1356

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	721695	WMWGREAP_1356
BC06179	721695	WMWGREAP_1356
BC06180	721695	WMWGREAP_1356
BC06181	721695	WMWGREAP_1356
BC06182	721695	WMWGREAP_1356

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC06179
 - BC06182

Anions

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	721870, 721954, & 722004	WMWGREAP_1356
BC06179	721870, 721954, & 722004	WMWGREAP_1356
BC06180	721870, 721954, & 722004	WMWGREAP_1356
BC06181	721870, 721954, & 722004	WMWGREAP_1356
BC06182	721870, 721954, & 722004	WMWGREAP_1356

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06178	Sulfate	10
BC06180	Sulfate	8
BC06181	Sulfate	8

8. The raw data results are shown with dilution factors included.

Case Narrative

Alkalinity

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	722674, 722675	WMWGREAP_1356
BC06180	722674, 722675	WMWGREAP_1356
BC06181	722674, 722675	WMWGREAP_1356

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	721982	WMWGREAP_1356
BC06179	721982	WMWGREAP_1356
BC06180	721982	WMWGREAP_1356
BC06181	721982	WMWGREAP_1356
BC06182	721982	WMWGREAP_1356

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
 - Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP_1356

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06178	722011	WMWGREAP_1356
BC06179	722011	WMWGREAP_1356
BC06180	722011	WMWGREAP_1356
BC06181	722011	WMWGREAP_1356
BC06182	722011	WMWGREAP_1356

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was $<1/2RL$.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were $<1/2RL$.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-64HO

Location Code: WMWGREAP
Collected: 3/23/22 08:52
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 10:29		1.015	0.567	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/7/22 11:44		10.15	63.2	mg/L	0.70035	4.06	
* Iron, Total	4/5/22 07:00	4/7/22 10:29		1.015	0.142	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/7/22 10:29		1.015	0.159	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/7/22 10:29		1.015	22.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 10:29		1	6.55	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 10:29		1.015	3.06	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 10:29		1.015	24.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:20	4/5/22 09:07		1.015	0.549	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:20	4/5/22 09:45		10.15	63.0	mg/L	0.70035	4.06	
* Iron, Dissolved	4/4/22 08:20	4/5/22 09:07		1.015	0.0396	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/4/22 08:20	4/5/22 09:43		1.015	0.152	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:20	4/5/22 09:43		1.015	21.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:20	4/5/22 09:07		1	6.33	mg/L			
Silicon, Dissolved	4/4/22 08:20	4/5/22 09:07		1.015	2.96	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:20	4/5/22 09:43		1.015	23.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:27	3/30/22 12:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:27	3/30/22 12:32		1.015	0.0956	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:27	3/30/22 12:32		1.015	0.000300	mg/L	0.000081	0.000203	
* Barium, Total	3/29/22 14:27	3/30/22 12:32		1.015	0.0940	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:27	3/30/22 12:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:27	3/30/22 12:32		1.015	0.000131	mg/L	0.000068	0.000203	J
* Chromium, Total	3/29/22 14:27	3/30/22 12:32		1.015	0.000614	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:27	3/30/22 12:32		1.015	0.00419	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:27	3/30/22 12:32		1.015	0.000157	mg/L	0.000068	0.000203	J
* Manganese, Total	3/29/22 14:27	3/30/22 13:01		10.15	5.42	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/29/22 14:27	3/30/22 12:32		1.015	0.0639	mg/L	0.000102	0.000203	
* Potassium, Total	3/29/22 14:27	3/30/22 12:32		1.015	5.66	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-64HO

Location Code: WMWGREAP
Collected: 3/23/22 08:52
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:27	3/30/22 12:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:27	3/30/22 12:32		1.015	0.0000941	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	0.000291	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	0.0934	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	0.00397	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:50	3/31/22 12:39		10.15	5.56	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	0.0650	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	5.71	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:50	3/29/22 15:57		1.015	0.0000951	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 20:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 14:11	3/29/22 14:11		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/4/22 12:50	4/4/22 13:40		1	142	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	373	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/4/22 12:50	4/4/22 13:40		1	141	mg/L			
Carbonate Alkalinity, (calc.)	4/4/22 12:50	4/4/22 13:40		1	0.78	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 18:57	3/29/22 18:57		1	1.07	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-64HO

Location Code: WMWGREAP

Collected: 3/23/22 08:52

Customer ID:

Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:31	3/28/22 11:31		1	16.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:47	3/28/22 14:47		1	0.251	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 13:04	3/29/22 13:04		10	156	mg/L	6.0	20	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/23/22 08:49	3/23/22 08:49			581.15	uS/cm			FA
pH	3/23/22 08:49	3/23/22 08:49			6.92	SU			FA
Temperature	3/23/22 08:49	3/23/22 08:49			19.49	C			FA
Turbidity	3/23/22 08:49	3/23/22 08:49			4.84	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 08:52

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-64HO

Laboratory ID Number: BC06178

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC06181	Aluminum, Dissolved	mg/L	-0.000185	0.010	0.100	0.0974	0.101	0.103	0.0850 to 0.115	97.4	70.0 to 130	3.63	20.0
BC06182	Aluminum, Total	mg/L	0.000625	0.010	0.100	0.0995	0.0991	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.403	20.0
BC06181	Antimony, Dissolved	mg/L	0.000264	0.00100	0.100	0.0933	0.0895	0.0961	0.0850 to 0.115	93.3	70.0 to 130	4.16	20.0
BC06182	Antimony, Total	mg/L	0.000337	0.00100	0.100	0.0973	0.100	0.0985	0.0850 to 0.115	97.3	70.0 to 130	2.74	20.0
BC06181	Arsenic, Dissolved	mg/L	-0.0000221	0.000176	0.100	0.0938	0.0925	0.0970	0.0850 to 0.115	93.7	70.0 to 130	1.40	20.0
BC06182	Arsenic, Total	mg/L	-0.0000454	0.000176	0.100	0.0976	0.0986	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.02	20.0
BC06181	Barium, Dissolved	mg/L	-0.0000222	0.000200	0.100	0.163	0.152	0.103	0.0850 to 0.115	103	70.0 to 130	6.98	20.0
BC06182	Barium, Total	mg/L	0.0000111	0.000200	0.100	0.0941	0.0976	0.0961	0.0850 to 0.115	94.1	70.0 to 130	3.65	20.0
BC06181	Beryllium, Dissolved	mg/L	0.0000623	0.000880	0.100	0.0829	0.0840	0.0915	0.0850 to 0.115	82.9	70.0 to 130	1.32	20.0
BC06182	Beryllium, Total	mg/L	0.0000839	0.000880	0.100	0.0931	0.0933	0.0962	0.0850 to 0.115	93.1	70.0 to 130	0.215	20.0
BC06181	Boron, Dissolved	mg/L	-0.000299	0.0650	1.00	1.34	1.34	1.01	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC06182	Boron, Total	mg/L	-0.000107	0.0650	1.00	1.01	1.02	1.03	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC06181	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0936	0.0949	0.0997	0.0850 to 0.115	93.6	70.0 to 130	1.38	20.0
BC06182	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06181	Calcium, Dissolved	mg/L	-0.0123	0.152	5.00	52.4	52.7	4.83	4.25 to 5.75	136	70.0 to 130	0.571	20.0
BC06182	Calcium, Total	mg/L	-0.0108	0.152	5.00	4.87	4.91	5.01	4.25 to 5.75	97.4	70.0 to 130	0.818	20.0
BC06182	Chloride	mg/L	0.0443	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC06181	Chromium, Dissolved	mg/L	-0.0000155	0.000440	0.100	0.0913	0.0933	0.0959	0.0850 to 0.115	91.3	70.0 to 130	2.17	20.0
BC06182	Chromium, Total	mg/L	0.0000733	0.000440	0.100	0.100	0.0994	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.602	20.0
BC06181	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.0969	0.0990	0.0988	0.0850 to 0.115	92.0	70.0 to 130	2.14	20.0
BC06182	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06182	Fluoride	mg/L	0.0025	0.125	2.50	2.59	2.61	2.54	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC06181	Iron, Dissolved	mg/L	-0.000628	0.0176	0.2	0.195	0.198	0.200	0.170 to 0.230	97.5	70.0 to 130	1.53	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 08:52

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-64HO

Laboratory ID Number: BC06178

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
BC06182	Iron, Total	mg/L	0.000062	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0	
BC06181	Lead, Dissolved	mg/L	0.0000147	0.000147	0.100	0.100	0.0980	0.0988	0.0850 to 0.115	100	70.0 to 130	2.02	20.0	
BC06182	Lead, Total	mg/L	0.0000097	0.000147	0.100	0.0984	0.0985	0.101	0.0850 to 0.115	98.4	70.0 to 130	0.102	20.0	
BC06181	Lithium, Dissolved	mg/L	0.000086	0.0154	0.200	0.297	0.304	0.199	0.170 to 0.230	91.5	70.0 to 130	2.33	20.0	
BC06182	Lithium, Total	mg/L	0.000041	0.0154	0.200	0.212	0.205	0.205	0.170 to 0.230	106	70.0 to 130	3.36	20.0	
BC06181	Magnesium, Dissolved	mg/L	-0.00141	0.0462	5.00	23.3	23.7	5.11	4.25 to 5.75	94.0	70.0 to 130	1.70	20.0	
BC06182	Magnesium, Total	mg/L	-0.0105	0.0462	5.00	5.24	5.20	5.23	4.25 to 5.75	105	70.0 to 130	0.766	20.0	
BC06181	Manganese, Dissolved	mg/L	0.0000254	0.0002	0.100	5.13	5.21	0.0986	0.0850 to 0.115	-50.0	70.0 to 130	1.55	20.0	
BC06182	Manganese, Total	mg/L	-0.0000815	0.0002	0.100	0.100	0.0990	0.103	0.0850 to 0.115	100	70.0 to 130	1.01	20.0	
BC06182	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00392	0.00402	0.00399	0.00340 to 0.00460	98.0	70.0 to 130	2.52	20.0	
BC06181	Molybdenum, Dissolved	mg/L	-0.0000036	0.0002	0.100	0.143	0.140	0.0979	0.0850 to 0.115	95.7	70.0 to 130	2.12	20.0	
BC06182	Molybdenum, Total	mg/L	0.0000190	0.0002	0.100	0.0983	0.0967	0.0987	0.0850 to 0.115	98.3	70.0 to 130	1.64	20.0	
BC06181	Potassium, Dissolved	mg/L	0.0238	0.367	10.0	15.1	15.5	9.92	8.50 to 11.5	96.6	70.0 to 130	2.61	20.0	
BC06182	Potassium, Total	mg/L	-0.0247	0.367	10.0	10.2	10.0	10.4	8.50 to 11.5	102	70.0 to 130	1.98	20.0	
BC06181	Selenium, Dissolved	mg/L	0.000184	0.00100	0.100	0.0938	0.0924	0.0968	0.0850 to 0.115	93.8	70.0 to 130	1.50	20.0	
BC06182	Selenium, Total	mg/L	0.0000464	0.00100	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC06181	Silicon, Dissolved	mg/L	-0.000515	0.0440	1.00	3.26	3.26	1.01	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0	
BC06182	Silicon, Total	mg/L	0.000356	0.0440	1.00	0.999	1.00	1.02	0.850 to 1.15	99.9	70.0 to 130	0.100	20.0	
BC06181	Sodium, Dissolved	mg/L	0.00285	0.0660	5.00	18.6	19.1	5.13	4.25 to 5.75	88.0	70.0 to 130	2.65	20.0	
BC06182	Sodium, Total	mg/L	0.00275	0.0660	5.00	5.40	5.21	5.18	4.25 to 5.75	108	70.0 to 130	3.58	20.0	
BC06182	Sulfate	mg/L	0.369	2.0	20.0	21.2	20.7	20.6	18.0 to 22.0	106	80.0 to 120	2.39	20.0	
BC06181	Thallium, Dissolved	mg/L	0.0000095	0.000147	0.100	0.101	0.0980	0.0990	0.0850 to 0.115	101	70.0 to 130	3.02	20.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 08:52

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-64HO

Laboratory ID Number: BC06178

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06182	Thallium, Total	mg/L	0.0000020	0.000147	0.100	0.0992	0.0972	0.101	0.0850 to 0.115	99.2	70.0 to 130	2.04	20.0
BC06182	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.1	10.1	10.0		101	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 08:52

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-64HO

Laboratory ID Number: BC06178

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06181	Alkalinity, Total as CaCO3	mg/L					113	51.0	45.0 to 55.0			0.00	10.0
BC06182	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.08	0.200	2.00	1.94	-0.064	1.90	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BC06181	Solids, Dissolved	mg/L	0.0000	25.0			298	49.0	40.0 to 60.0			0.336	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/23/22 09:15
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06179

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 10:32		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/7/22 10:32		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/5/22 07:00	4/7/22 10:32		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/7/22 10:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 10:32		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/5/22 07:00	4/7/22 10:32		1	Not Detected	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 10:32		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/5/22 07:00	4/7/22 10:32		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/29/22 14:27	3/30/22 12:36		1.015	0.000226	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:27	3/30/22 12:36		1.015	0.000302	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:27	3/30/22 12:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 20:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 14:12	3/29/22 14:12		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/23/22 09:15
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06179

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 19:16	3/29/22 19:16		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:33	3/28/22 11:33		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:48	3/28/22 14:48		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:59	3/29/22 12:59		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/23/22 09:15

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06179

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06182	Aluminum, Total	mg/L	0.000625	0.010	0.100	0.0995	0.0991	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.403	20.0
BC06182	Antimony, Total	mg/L	0.000337	0.00100	0.100	0.0973	0.100	0.0985	0.0850 to 0.115	97.3	70.0 to 130	2.74	20.0
BC06182	Arsenic, Total	mg/L	-0.0000454	0.000176	0.100	0.0976	0.0986	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.02	20.0
BC06182	Barium, Total	mg/L	0.0000111	0.000200	0.100	0.0941	0.0976	0.0961	0.0850 to 0.115	94.1	70.0 to 130	3.65	20.0
BC06182	Beryllium, Total	mg/L	0.0000839	0.000880	0.100	0.0931	0.0933	0.0962	0.0850 to 0.115	93.1	70.0 to 130	0.215	20.0
BC06182	Boron, Total	mg/L	-0.000107	0.0650	1.00	1.01	1.02	1.03	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC06182	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06182	Calcium, Total	mg/L	-0.0108	0.152	5.00	4.87	4.91	5.01	4.25 to 5.75	97.4	70.0 to 130	0.818	20.0
BC06182	Chloride	mg/L	0.0443	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC06182	Chromium, Total	mg/L	0.0000733	0.000440	0.100	0.100	0.0994	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.602	20.0
BC06182	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06182	Fluoride	mg/L	0.0025	0.125	2.50	2.59	2.61	2.54	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC06182	Iron, Total	mg/L	0.000062	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BC06182	Lead, Total	mg/L	0.0000097	0.000147	0.100	0.0984	0.0985	0.101	0.0850 to 0.115	98.4	70.0 to 130	0.102	20.0
BC06182	Lithium, Total	mg/L	0.000041	0.0154	0.200	0.212	0.205	0.205	0.170 to 0.230	106	70.0 to 130	3.36	20.0
BC06182	Magnesium, Total	mg/L	-0.0105	0.0462	5.00	5.24	5.20	5.23	4.25 to 5.75	105	70.0 to 130	0.766	20.0
BC06182	Manganese, Total	mg/L	-0.0000815	0.0002	0.100	0.100	0.0990	0.103	0.0850 to 0.115	100	70.0 to 130	1.01	20.0
BC06182	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00392	0.00402	0.00399	0.00340 to 0.00460	98.0	70.0 to 130	2.52	20.0
BC06182	Molybdenum, Total	mg/L	0.0000190	0.0002	0.100	0.0983	0.0967	0.0987	0.0850 to 0.115	98.3	70.0 to 130	1.64	20.0
BC06182	Potassium, Total	mg/L	-0.0247	0.367	10.0	10.2	10.0	10.4	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC06182	Selenium, Total	mg/L	0.0000464	0.00100	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06182	Silicon, Total	mg/L	0.000356	0.0440	1.00	0.999	1.00	1.02	0.850 to 1.15	99.9	70.0 to 130	0.100	20.0
BC06182	Sodium, Total	mg/L	0.00275	0.0660	5.00	5.40	5.21	5.18	4.25 to 5.75	108	70.0 to 130	3.58	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/23/22 09:15

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06179

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC06182	Sulfate	mg/L	0.369	2.0	20.0	21.2	20.7	20.6	18.0 to 22.0	106	80.0 to 120	2.39	20.0
BC06182	Thallium, Total	mg/L	0.0000020	0.000147	0.100	0.0992	0.0972	0.101	0.0850 to 0.115	99.2	70.0 to 130	2.04	20.0
BC06182	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.1	10.1	10.0		101	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/23/22 09:15

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06179

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06182	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.08	0.200	2.00	1.94	-0.064	1.90	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BC06181	Solids, Dissolved	mg/L	0.0000	25.0			298	49.0	40.0 to 60.0			0.336	10.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO

Location Code: WMWGREAP
Collected: 3/23/22 09:53
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 10:34		1.015	0.355	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/7/22 11:47		10.15	53.1	mg/L	0.70035	4.06	
* Iron, Total	4/5/22 07:00	4/7/22 10:34		1.015	0.0155	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/7/22 10:34		1.015	0.122	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/7/22 10:34		1.015	19.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 10:34		1	4.92	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 10:34		1.015	2.30	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 10:34		1.015	15.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:20	4/5/22 09:08		1.015	0.345	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:20	4/5/22 09:46		10.15	49.0	mg/L	0.70035	4.06	
* Iron, Dissolved	4/4/22 08:20	4/5/22 09:08		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:20	4/5/22 09:08		1.015	0.115	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:20	4/5/22 09:08		1.015	18.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:20	4/5/22 09:08		1	4.88	mg/L			
Silicon, Dissolved	4/4/22 08:20	4/5/22 09:08		1.015	2.28	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:20	4/5/22 09:08		1.015	14.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:27	3/30/22 12:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:27	3/30/22 12:40		1.015	0.0164	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:27	3/30/22 12:40		1.015	0.000166	mg/L	0.000081	0.000203	J
* Barium, Total	3/29/22 14:27	3/30/22 12:40		1.015	0.0595	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:27	3/30/22 12:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:27	3/30/22 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:27	3/30/22 12:40		1.015	0.000317	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:27	3/30/22 12:40		1.015	0.00530	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:27	3/30/22 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:27	3/30/22 13:05		10.15	5.17	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/29/22 14:27	3/30/22 12:40		1.015	0.0489	mg/L	0.000102	0.000203	
* Potassium, Total	3/29/22 14:27	3/30/22 12:40		1.015	5.50	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO

Location Code: WMWGREAP
Collected: 3/23/22 09:53
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:27	3/30/22 12:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:27	3/30/22 12:40		1.015	0.0000696	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	0.000182	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	0.0621	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	0.0000726	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	0.00484	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:50	3/31/22 12:43		10.15	5.00	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	0.0501	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	5.43	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:50	3/29/22 16:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 20:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 14:13	3/29/22 14:13		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/4/22 12:50	4/4/22 13:40		1	103	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	300	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/4/22 12:50	4/4/22 13:40		1	102	mg/L			
Carbonate Alkalinity, (calc.)	4/4/22 12:50	4/4/22 13:40		1	0.58	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 19:31	3/29/22 19:31		1	1.06	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO

Location Code: WMWGREAP

Collected: 3/23/22 09:53

Customer ID:

Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:34	3/28/22 11:34		1	7.84	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:50	3/28/22 14:50		1	0.158	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 13:05	3/29/22 13:05		8	131	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/23/22 09:50	3/23/22 09:50			464.00	uS/cm			FA
pH	3/23/22 09:50	3/23/22 09:50			6.55	SU			FA
Temperature	3/23/22 09:50	3/23/22 09:50			19.20	C			FA
Turbidity	3/23/22 09:50	3/23/22 09:50			2.24	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 09:53
Customer ID:
Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BC06180

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC06181	Aluminum, Dissolved	mg/L	-0.000185	0.010	0.100	0.0974	0.101	0.103	0.0850 to 0.115	97.4	70.0 to 130	3.63	20.0
BC06182	Aluminum, Total	mg/L	0.000625	0.010	0.100	0.0995	0.0991	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.403	20.0
BC06181	Antimony, Dissolved	mg/L	0.000264	0.00100	0.100	0.0933	0.0895	0.0961	0.0850 to 0.115	93.3	70.0 to 130	4.16	20.0
BC06182	Antimony, Total	mg/L	0.000337	0.00100	0.100	0.0973	0.100	0.0985	0.0850 to 0.115	97.3	70.0 to 130	2.74	20.0
BC06181	Arsenic, Dissolved	mg/L	-0.0000221	0.000176	0.100	0.0938	0.0925	0.0970	0.0850 to 0.115	93.7	70.0 to 130	1.40	20.0
BC06182	Arsenic, Total	mg/L	-0.0000454	0.000176	0.100	0.0976	0.0986	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.02	20.0
BC06181	Barium, Dissolved	mg/L	-0.0000222	0.000200	0.100	0.163	0.152	0.103	0.0850 to 0.115	103	70.0 to 130	6.98	20.0
BC06182	Barium, Total	mg/L	0.0000111	0.000200	0.100	0.0941	0.0976	0.0961	0.0850 to 0.115	94.1	70.0 to 130	3.65	20.0
BC06181	Beryllium, Dissolved	mg/L	0.0000623	0.000880	0.100	0.0829	0.0840	0.0915	0.0850 to 0.115	82.9	70.0 to 130	1.32	20.0
BC06182	Beryllium, Total	mg/L	0.0000839	0.000880	0.100	0.0931	0.0933	0.0962	0.0850 to 0.115	93.1	70.0 to 130	0.215	20.0
BC06181	Boron, Dissolved	mg/L	-0.000299	0.0650	1.00	1.34	1.34	1.01	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC06182	Boron, Total	mg/L	-0.000107	0.0650	1.00	1.01	1.02	1.03	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC06181	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0936	0.0949	0.0997	0.0850 to 0.115	93.6	70.0 to 130	1.38	20.0
BC06182	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06181	Calcium, Dissolved	mg/L	-0.0123	0.152	5.00	52.4	52.7	4.83	4.25 to 5.75	136	70.0 to 130	0.571	20.0
BC06182	Calcium, Total	mg/L	-0.0108	0.152	5.00	4.87	4.91	5.01	4.25 to 5.75	97.4	70.0 to 130	0.818	20.0
BC06182	Chloride	mg/L	0.0443	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC06181	Chromium, Dissolved	mg/L	-0.0000155	0.000440	0.100	0.0913	0.0933	0.0959	0.0850 to 0.115	91.3	70.0 to 130	2.17	20.0
BC06182	Chromium, Total	mg/L	0.0000733	0.000440	0.100	0.100	0.0994	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.602	20.0
BC06181	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.0969	0.0990	0.0988	0.0850 to 0.115	92.0	70.0 to 130	2.14	20.0
BC06182	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06182	Fluoride	mg/L	0.0025	0.125	2.50	2.59	2.61	2.54	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC06181	Iron, Dissolved	mg/L	-0.000628	0.0176	0.2	0.195	0.198	0.200	0.170 to 0.230	97.5	70.0 to 130	1.53	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 09:53
Customer ID:
Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BC06180

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
BC06182	Iron, Total	mg/L	0.000062	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0	
BC06181	Lead, Dissolved	mg/L	0.0000147	0.000147	0.100	0.100	0.0980	0.0988	0.0850 to 0.115	100	70.0 to 130	2.02	20.0	
BC06182	Lead, Total	mg/L	0.0000097	0.000147	0.100	0.0984	0.0985	0.101	0.0850 to 0.115	98.4	70.0 to 130	0.102	20.0	
BC06181	Lithium, Dissolved	mg/L	0.000086	0.0154	0.200	0.297	0.304	0.199	0.170 to 0.230	91.5	70.0 to 130	2.33	20.0	
BC06182	Lithium, Total	mg/L	0.000041	0.0154	0.200	0.212	0.205	0.205	0.170 to 0.230	106	70.0 to 130	3.36	20.0	
BC06181	Magnesium, Dissolved	mg/L	-0.00141	0.0462	5.00	23.3	23.7	5.11	4.25 to 5.75	94.0	70.0 to 130	1.70	20.0	
BC06182	Magnesium, Total	mg/L	-0.0105	0.0462	5.00	5.24	5.20	5.23	4.25 to 5.75	105	70.0 to 130	0.766	20.0	
BC06181	Manganese, Dissolved	mg/L	0.0000254	0.0002	0.100	5.13	5.21	0.0986	0.0850 to 0.115	-50.0	70.0 to 130	1.55	20.0	
BC06182	Manganese, Total	mg/L	-0.0000815	0.0002	0.100	0.100	0.0990	0.103	0.0850 to 0.115	100	70.0 to 130	1.01	20.0	
BC06182	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00392	0.00402	0.00399	0.00340 to 0.00460	98.0	70.0 to 130	2.52	20.0	
BC06181	Molybdenum, Dissolved	mg/L	-0.0000036	0.0002	0.100	0.143	0.140	0.0979	0.0850 to 0.115	95.7	70.0 to 130	2.12	20.0	
BC06182	Molybdenum, Total	mg/L	0.0000190	0.0002	0.100	0.0983	0.0967	0.0987	0.0850 to 0.115	98.3	70.0 to 130	1.64	20.0	
BC06181	Potassium, Dissolved	mg/L	0.0238	0.367	10.0	15.1	15.5	9.92	8.50 to 11.5	96.6	70.0 to 130	2.61	20.0	
BC06182	Potassium, Total	mg/L	-0.0247	0.367	10.0	10.2	10.0	10.4	8.50 to 11.5	102	70.0 to 130	1.98	20.0	
BC06181	Selenium, Dissolved	mg/L	0.000184	0.00100	0.100	0.0938	0.0924	0.0968	0.0850 to 0.115	93.8	70.0 to 130	1.50	20.0	
BC06182	Selenium, Total	mg/L	0.0000464	0.00100	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC06181	Silicon, Dissolved	mg/L	-0.000515	0.0440	1.00	3.26	3.26	1.01	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0	
BC06182	Silicon, Total	mg/L	0.000356	0.0440	1.00	0.999	1.00	1.02	0.850 to 1.15	99.9	70.0 to 130	0.100	20.0	
BC06181	Sodium, Dissolved	mg/L	0.00285	0.0660	5.00	18.6	19.1	5.13	4.25 to 5.75	88.0	70.0 to 130	2.65	20.0	
BC06182	Sodium, Total	mg/L	0.00275	0.0660	5.00	5.40	5.21	5.18	4.25 to 5.75	108	70.0 to 130	3.58	20.0	
BC06182	Sulfate	mg/L	0.369	2.0	20.0	21.2	20.7	20.6	18.0 to 22.0	106	80.0 to 120	2.39	20.0	
BC06181	Thallium, Dissolved	mg/L	0.0000095	0.000147	0.100	0.101	0.0980	0.0990	0.0850 to 0.115	101	70.0 to 130	3.02	20.0	

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:53

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BC06180

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC06182	Thallium, Total	mg/L	0.0000020	0.000147	0.100	0.0992	0.0972	0.101	0.0850 to 0.115	99.2	70.0 to 130	2.04	20.0
BC06182	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.1	10.1	10.0		101	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:53

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BC06180

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC06181	Alkalinity, Total as CaCO3	mg/L					113	51.0	45.0 to 55.0			0.00	10.0
BC06182	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.08	0.200	2.00	1.94	-0.064	1.90	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BC06181	Solids, Dissolved	mg/L	0.0000	25.0			298	49.0	40.0 to 60.0			0.336	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO DUP

Location Code: WMWGREAP
Collected: 3/23/22 09:53
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 10:37		1.015	0.355	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/7/22 11:50		10.15	49.6	mg/L	0.70035	4.06	
* Iron, Total	4/5/22 07:00	4/7/22 10:37		1.015	0.0165	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/7/22 10:37		1.015	0.123	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/7/22 10:37		1.015	19.5	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 10:37		1	4.92	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 10:37		1.015	2.30	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 10:37		1.015	15.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:20	4/5/22 09:10		1.015	0.341	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:20	4/5/22 09:48		10.15	45.6	mg/L	0.70035	4.06	RA
* Iron, Dissolved	4/4/22 08:20	4/5/22 09:10		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:20	4/5/22 09:10		1.015	0.114	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:20	4/5/22 09:10		1.015	18.6	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:20	4/5/22 09:10		1	4.88	mg/L			
Silicon, Dissolved	4/4/22 08:20	4/5/22 09:10		1.015	2.28	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:20	4/5/22 09:10		1.015	14.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:27	3/30/22 12:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:27	3/30/22 12:43		1.015	0.0169	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:27	3/30/22 12:43		1.015	0.000164	mg/L	0.000081	0.000203	J
* Barium, Total	3/29/22 14:27	3/30/22 12:43		1.015	0.0584	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:27	3/30/22 12:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:27	3/30/22 12:43		1.015	0.0000770	mg/L	0.000068	0.000203	J
* Chromium, Total	3/29/22 14:27	3/30/22 12:43		1.015	0.000282	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:27	3/30/22 12:43		1.015	0.00516	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:27	3/30/22 12:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:27	3/30/22 13:09		10.15	5.20	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/29/22 14:27	3/30/22 12:43		1.015	0.0484	mg/L	0.000102	0.000203	
* Potassium, Total	3/29/22 14:27	3/30/22 12:43		1.015	5.45	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO DUP

Location Code: WMWGREAP
Collected: 3/23/22 09:53
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:27	3/30/22 12:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:27	3/30/22 12:43		1.015	0.0000683	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	0.000140	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	0.0598	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	0.00488	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:50	3/31/22 12:46		10.15	5.18	mg/L	0.001522	0.00203	RA
* Molybdenum, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	0.0473	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	5.44	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:50	3/29/22 16:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 20:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 14:13	3/29/22 14:13		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/4/22 12:50	4/4/22 13:40		1	113	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	297	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/4/22 12:50	4/4/22 13:40		1	113	mg/L			
Carbonate Alkalinity, (calc.)	4/4/22 12:50	4/4/22 13:40		1	0.18	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 19:52	3/29/22 19:52		1	1.06	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-46HO DUP

Location Code: WMWGREAP

Collected: 3/23/22 09:53

Customer ID:

Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:35	3/28/22 11:35		1	7.95	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:51	3/28/22 14:51		1	0.166	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 13:06	3/29/22 13:06		8	131	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/23/22 09:50	3/23/22 09:50			464.00	uS/cm			FA
pH	3/23/22 09:50	3/23/22 09:50			6.55	SU			FA
Temperature	3/23/22 09:50	3/23/22 09:50			19.20	C			FA
Turbidity	3/23/22 09:50	3/23/22 09:50			2.24	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:53

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BC06181

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06181	Aluminum, Dissolved	mg/L	-0.000185	0.010	0.100	0.0974	0.101	0.103	0.0850 to 0.115	97.4	70.0 to 130	3.63	20.0
BC06182	Aluminum, Total	mg/L	0.000625	0.010	0.100	0.0995	0.0991	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.403	20.0
BC06181	Antimony, Dissolved	mg/L	0.000264	0.00100	0.100	0.0933	0.0895	0.0961	0.0850 to 0.115	93.3	70.0 to 130	4.16	20.0
BC06182	Antimony, Total	mg/L	0.000337	0.00100	0.100	0.0973	0.100	0.0985	0.0850 to 0.115	97.3	70.0 to 130	2.74	20.0
BC06181	Arsenic, Dissolved	mg/L	-0.0000221	0.000176	0.100	0.0938	0.0925	0.0970	0.0850 to 0.115	93.7	70.0 to 130	1.40	20.0
BC06182	Arsenic, Total	mg/L	-0.0000454	0.000176	0.100	0.0976	0.0986	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.02	20.0
BC06181	Barium, Dissolved	mg/L	-0.0000222	0.000200	0.100	0.163	0.152	0.103	0.0850 to 0.115	103	70.0 to 130	6.98	20.0
BC06182	Barium, Total	mg/L	0.0000111	0.000200	0.100	0.0941	0.0976	0.0961	0.0850 to 0.115	94.1	70.0 to 130	3.65	20.0
BC06181	Beryllium, Dissolved	mg/L	0.0000623	0.000880	0.100	0.0829	0.0840	0.0915	0.0850 to 0.115	82.9	70.0 to 130	1.32	20.0
BC06182	Beryllium, Total	mg/L	0.0000839	0.000880	0.100	0.0931	0.0933	0.0962	0.0850 to 0.115	93.1	70.0 to 130	0.215	20.0
BC06181	Boron, Dissolved	mg/L	-0.000299	0.0650	1.00	1.34	1.34	1.01	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC06182	Boron, Total	mg/L	-0.000107	0.0650	1.00	1.01	1.02	1.03	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC06181	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0936	0.0949	0.0997	0.0850 to 0.115	93.6	70.0 to 130	1.38	20.0
BC06182	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06181	Calcium, Dissolved	mg/L	-0.0123	0.152	5.00	52.4	52.7	4.83	4.25 to 5.75	136	70.0 to 130	0.571	20.0
BC06182	Calcium, Total	mg/L	-0.0108	0.152	5.00	4.87	4.91	5.01	4.25 to 5.75	97.4	70.0 to 130	0.818	20.0
BC06182	Chloride	mg/L	0.0443	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC06181	Chromium, Dissolved	mg/L	-0.0000155	0.000440	0.100	0.0913	0.0933	0.0959	0.0850 to 0.115	91.3	70.0 to 130	2.17	20.0
BC06182	Chromium, Total	mg/L	0.0000733	0.000440	0.100	0.100	0.0994	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.602	20.0
BC06181	Cobalt, Dissolved	mg/L	0.0000038	0.000147	0.100	0.0969	0.0990	0.0988	0.0850 to 0.115	92.0	70.0 to 130	2.14	20.0
BC06182	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06182	Fluoride	mg/L	0.0025	0.125	2.50	2.59	2.61	2.54	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC06181	Iron, Dissolved	mg/L	-0.000628	0.0176	0.2	0.195	0.198	0.200	0.170 to 0.230	97.5	70.0 to 130	1.53	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:53

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BC06181

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06182	Iron, Total	mg/L	0.000062	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BC06181	Lead, Dissolved	mg/L	0.0000147	0.000147	0.100	0.100	0.0980	0.0988	0.0850 to 0.115	100	70.0 to 130	2.02	20.0
BC06182	Lead, Total	mg/L	0.0000097	0.000147	0.100	0.0984	0.0985	0.101	0.0850 to 0.115	98.4	70.0 to 130	0.102	20.0
BC06181	Lithium, Dissolved	mg/L	0.000086	0.0154	0.200	0.297	0.304	0.199	0.170 to 0.230	91.5	70.0 to 130	2.33	20.0
BC06182	Lithium, Total	mg/L	0.000041	0.0154	0.200	0.212	0.205	0.205	0.170 to 0.230	106	70.0 to 130	3.36	20.0
BC06181	Magnesium, Dissolved	mg/L	-0.00141	0.0462	5.00	23.3	23.7	5.11	4.25 to 5.75	94.0	70.0 to 130	1.70	20.0
BC06182	Magnesium, Total	mg/L	-0.0105	0.0462	5.00	5.24	5.20	5.23	4.25 to 5.75	105	70.0 to 130	0.766	20.0
BC06181	Manganese, Dissolved	mg/L	0.0000254	0.0002	0.100	5.13	5.21	0.0986	0.0850 to 0.115	-50.0	70.0 to 130	1.55	20.0
BC06182	Manganese, Total	mg/L	-0.0000815	0.0002	0.100	0.100	0.0990	0.103	0.0850 to 0.115	100	70.0 to 130	1.01	20.0
BC06182	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00392	0.00402	0.00399	0.00340 to 0.00460	98.0	70.0 to 130	2.52	20.0
BC06181	Molybdenum, Dissolved	mg/L	-0.0000036	0.0002	0.100	0.143	0.140	0.0979	0.0850 to 0.115	95.7	70.0 to 130	2.12	20.0
BC06182	Molybdenum, Total	mg/L	0.0000190	0.0002	0.100	0.0983	0.0967	0.0987	0.0850 to 0.115	98.3	70.0 to 130	1.64	20.0
BC06181	Potassium, Dissolved	mg/L	0.0238	0.367	10.0	15.1	15.5	9.92	8.50 to 11.5	96.6	70.0 to 130	2.61	20.0
BC06182	Potassium, Total	mg/L	-0.0247	0.367	10.0	10.2	10.0	10.4	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC06181	Selenium, Dissolved	mg/L	0.000184	0.00100	0.100	0.0938	0.0924	0.0968	0.0850 to 0.115	93.8	70.0 to 130	1.50	20.0
BC06182	Selenium, Total	mg/L	0.0000464	0.00100	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06181	Silicon, Dissolved	mg/L	-0.000515	0.0440	1.00	3.26	3.26	1.01	0.850 to 1.15	98.0	70.0 to 130	0.00	20.0
BC06182	Silicon, Total	mg/L	0.000356	0.0440	1.00	0.999	1.00	1.02	0.850 to 1.15	99.9	70.0 to 130	0.100	20.0
BC06181	Sodium, Dissolved	mg/L	0.00285	0.0660	5.00	18.6	19.1	5.13	4.25 to 5.75	88.0	70.0 to 130	2.65	20.0
BC06182	Sodium, Total	mg/L	0.00275	0.0660	5.00	5.40	5.21	5.18	4.25 to 5.75	108	70.0 to 130	3.58	20.0
BC06182	Sulfate	mg/L	0.369	2.0	20.0	21.2	20.7	20.6	18.0 to 22.0	106	80.0 to 120	2.39	20.0
BC06181	Thallium, Dissolved	mg/L	0.0000095	0.000147	0.100	0.101	0.0980	0.0990	0.0850 to 0.115	101	70.0 to 130	3.02	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 09:53
Customer ID:
Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BC06181

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06182	Thallium, Total	mg/L	0.0000020	0.000147	0.100	0.0992	0.0972	0.101	0.0850 to 0.115	99.2	70.0 to 130	2.04	20.0
BC06182	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.1	10.1	10.0		101	80.0 to 120	0.00	20.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 09:53

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BC06181

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06181	Alkalinity, Total as CaCO3	mg/L					113	51.0	45.0 to 55.0			0.00	10.0
BC06182	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.08	0.200	2.00	1.94	-0.064	1.90	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BC06181	Solids, Dissolved	mg/L	0.0000	25.0			298	49.0	40.0 to 60.0			0.336	10.0

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/23/22 10:20
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06182

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	4/5/22 07:00	4/7/22 10:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/7/22 10:40		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/5/22 07:00	4/7/22 10:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/7/22 10:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 10:40		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/5/22 07:00	4/7/22 10:40		1	Not Detected	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 10:40		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/5/22 07:00	4/7/22 10:40		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:27	3/30/22 12:47		1.015	0.000271	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:27	3/30/22 12:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 21:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: CES						
* Nitrogen, Nitrate/Nitrite	3/29/22 14:14	3/29/22 14:14		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/23/22 10:20
Customer ID:
Submittal Date: 3/24/22 11:36

Laboratory ID Number: BC06182

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 20:08	3/29/22 20:08		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:36	3/28/22 11:36		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:52	3/28/22 14:52		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 13:00	3/29/22 13:00		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/23/22 10:20

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06182

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06182	Aluminum, Total	mg/L	0.000625	0.010	0.100	0.0995	0.0991	0.103	0.0850 to 0.115	99.5	70.0 to 130	0.403	20.0
BC06182	Antimony, Total	mg/L	0.000337	0.00100	0.100	0.0973	0.100	0.0985	0.0850 to 0.115	97.3	70.0 to 130	2.74	20.0
BC06182	Arsenic, Total	mg/L	-0.0000454	0.000176	0.100	0.0976	0.0986	0.100	0.0850 to 0.115	97.6	70.0 to 130	1.02	20.0
BC06182	Barium, Total	mg/L	0.0000111	0.000200	0.100	0.0941	0.0976	0.0961	0.0850 to 0.115	94.1	70.0 to 130	3.65	20.0
BC06182	Beryllium, Total	mg/L	0.0000839	0.000880	0.100	0.0931	0.0933	0.0962	0.0850 to 0.115	93.1	70.0 to 130	0.215	20.0
BC06182	Boron, Total	mg/L	-0.000107	0.0650	1.00	1.01	1.02	1.03	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC06182	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC06182	Calcium, Total	mg/L	-0.0108	0.152	5.00	4.87	4.91	5.01	4.25 to 5.75	97.4	70.0 to 130	0.818	20.0
BC06182	Chloride	mg/L	0.0443	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BC06182	Chromium, Total	mg/L	0.0000733	0.000440	0.100	0.100	0.0994	0.103	0.0850 to 0.115	99.7	70.0 to 130	0.602	20.0
BC06182	Cobalt, Total	mg/L	-0.0000072	0.000147	0.100	0.103	0.102	0.105	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC06182	Fluoride	mg/L	0.0025	0.125	2.50	2.59	2.61	2.54	2.25 to 2.75	104	80.0 to 120	0.769	20.0
BC06182	Iron, Total	mg/L	0.000062	0.0176	0.2	0.200	0.201	0.201	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BC06182	Lead, Total	mg/L	0.0000097	0.000147	0.100	0.0984	0.0985	0.101	0.0850 to 0.115	98.4	70.0 to 130	0.102	20.0
BC06182	Lithium, Total	mg/L	0.000041	0.0154	0.200	0.212	0.205	0.205	0.170 to 0.230	106	70.0 to 130	3.36	20.0
BC06182	Magnesium, Total	mg/L	-0.0105	0.0462	5.00	5.24	5.20	5.23	4.25 to 5.75	105	70.0 to 130	0.766	20.0
BC06182	Manganese, Total	mg/L	-0.0000815	0.0002	0.100	0.100	0.0990	0.103	0.0850 to 0.115	100	70.0 to 130	1.01	20.0
BC06182	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00392	0.00402	0.00399	0.00340 to 0.00460	98.0	70.0 to 130	2.52	20.0
BC06182	Molybdenum, Total	mg/L	0.0000190	0.0002	0.100	0.0983	0.0967	0.0987	0.0850 to 0.115	98.3	70.0 to 130	1.64	20.0
BC06182	Potassium, Total	mg/L	-0.0247	0.367	10.0	10.2	10.0	10.4	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC06182	Selenium, Total	mg/L	0.0000464	0.00100	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06182	Silicon, Total	mg/L	0.000356	0.0440	1.00	0.999	1.00	1.02	0.850 to 1.15	99.9	70.0 to 130	0.100	20.0
BC06182	Sodium, Total	mg/L	0.00275	0.0660	5.00	5.40	5.21	5.18	4.25 to 5.75	108	70.0 to 130	3.58	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/23/22 10:20

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06182

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC06182	Sulfate	mg/L	0.369	2.0	20.0	21.2	20.7	20.6	18.0 to 22.0	106	80.0 to 120	2.39	20.0
BC06182	Thallium, Total	mg/L	0.0000020	0.000147	0.100	0.0992	0.0972	0.101	0.0850 to 0.115	99.2	70.0 to 130	2.04	20.0
BC06182	Total Organic Carbon	mg/L	0.310	1.00	10.0	10.1	10.1	10.0		101	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/23/22 10:20

Customer ID:

Delivery Date: 3/24/22 11:36

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06182

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06182	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.08	0.200	2.00	1.94	-0.064	1.90	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BC06181	Solids, Dissolved	mg/L	0.0000	25.0			298	49.0	40.0 to 60.0			0.336	10.0

Comments:

Definitions

Project Number: WMWGREAP_1356

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC bottles pH<2. LBM broke MW-46HO DUP Alkalinity bottle cap when accidentally knocked over bottle. Replaced cap w/ unused precleaned bottle from same bottle lot #0326501G. LBM 3/24/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-64HO	03/23/2022	08:52	7	Groundwater		BC06178
FB-1	03/23/2022	09:15	5	Field Blank		BC06179
MW-46HO	03/23/2022	09:53	7	Groundwater		BC06180
MW-46HO dup	03/23/2022	09:53	7	Sample Duplicate		BC06181
EB-1	03/23/2022	10:20	5	Equipment Blank		BC06182

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	03/24/2022 09:55

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1356	
Cooler Temp	0.5 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer		
	Collector: Dallas Gentry		Requested By	Greg Dyer	
		Location	Greene Ash Pond		

Bottles	1	2	3	4	5	6	7	8
Radium	1 L		N/A	N/A	N/A	N/A	N/A	N/A
Sulfide	250 mL		N/A	N/A	N/A	N/A	N/A	N/A

Comments: Radium MS/MSD collected at MW-64HO
Sulfide bottles pH>9. LBM 3/24/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-64HO	03/23/2022	08:52	4	Groundwater		BC06183
FB-1	03/23/2022	09:15	2	Field Blank		BC06184
MW-46HO	03/23/2022	09:53	2	Groundwater		BC06185
MW-46HO dup	03/23/2022	09:53	2	Sample Duplicate		BC06186
EB-1	03/23/2022	10:20	2	Equipment Blank		BC06187

Relinquished By	Received By	Date/Time
		03/24/2022 09:55

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1356	Cooler Temp	0.5 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	9772-56581-100-3

March 30, 2022

Laura Midkiff
Alabama Power
744 Highway 87
GSC 8
Calera, AL 35040

RE: Project: WMWGREAP_1356
Pace Project No.: 20238672

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - New Orleans

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

Sincerely,



Karen Brown
karen.brown@pacelabs.com
(504)469-0333
Project Manager

Enclosures

cc: Renee Jernigan, Alabama Power
Trinity B. Williams, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGREAP_1356

Pace Project No.: 20238672

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-

00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGREAP_1356
Pace Project No.: 20238672

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20238672001	BC06183 MW-64HO	Water	03/23/22 08:52	03/26/22 04:00
20238672002	BC06184 FB-1	Water	03/23/22 09:15	03/26/22 04:00
20238672003	BC06185 MW-46HO	Water	03/23/22 09:53	03/26/22 04:00
20238672004	BC06186 MW-46HO DUP	Water	03/23/22 09:53	03/26/22 04:00
20238672005	BC06187 EB-1	Water	03/23/22 10:20	03/26/22 04:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1356

Pace Project No.: 20238672

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20238672001	BC06183 MW-64HO	SM 4500-S-2 D	RVJ	1
20238672002	BC06184 FB-1	SM 4500-S-2 D	RVJ	1
20238672003	BC06185 MW-46HO	SM 4500-S-2 D	RVJ	1
20238672004	BC06186 MW-46HO DUP	SM 4500-S-2 D	RVJ	1
20238672005	BC06187 EB-1	SM 4500-S-2 D	RVJ	1

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1356
Pace Project No.: 20238672

Method: SM 4500-S-2 D
Description: 4500S2D Sulfide, Total
Client: Alabama Power
Date: March 30, 2022

General Information:

5 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 251511

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20238671002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1194666)
- Sulfide, Total

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1356
Pace Project No.: 20238672

Sample: BC06183 MW-64HO Lab ID: 20238672001 Collected: 03/23/22 08:52 Received: 03/26/22 04:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:01	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1356

Pace Project No.: 20238672

Sample: BC06184 FB-1 **Lab ID: 20238672002** Collected: 03/23/22 09:15 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:02	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1356

Pace Project No.: 20238672

Sample: BC06185 MW-46HO **Lab ID: 20238672003** Collected: 03/23/22 09:53 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:03	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1356

Pace Project No.: 20238672

Sample: BC06186 MW-46HO DUP **Lab ID: 20238672004** Collected: 03/23/22 09:53 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:04	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1356

Pace Project No.: 20238672

Sample: BC06187 EB-1 **Lab ID: 20238672005** Collected: 03/23/22 10:20 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:05	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGREAP_1356
Pace Project No.: 20238672

QC Batch: 251511 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20238672001, 20238672002, 20238672003, 20238672004, 20238672005

METHOD BLANK: 1194663 Matrix: Water
Associated Lab Samples: 20238672001, 20238672002, 20238672003, 20238672004, 20238672005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/30/22 13:20	

LABORATORY CONTROL SAMPLE: 1194664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.20	98	90-110	

MATRIX SPIKE SAMPLE: 1194666

Parameter	Units	20238671002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.11	54	75-125	M1

SAMPLE DUPLICATE: 1194665

Parameter	Units	20238671002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGREAP_1356
Pace Project No.: 20238672

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1356

Pace Project No.: 20238672

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20238672001	BC06183 MW-64HO	SM 4500-S-2 D	251511		
20238672002	BC06184 FB-1	SM 4500-S-2 D	251511		
20238672003	BC06185 MW-46HO	SM 4500-S-2 D	251511		
20238672004	BC06186 MW-46HO DUP	SM 4500-S-2 D	251511		
20238672005	BC06187 EB-1	SM 4500-S-2 D	251511		

REPORT OF LABORATORY ANALYSIS

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1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

WO#: 20238672

Sample Condition Upon R: PM: KHB Due Date: 04/07/22

CLIENT: 20-Alabama

Project _____

Courier: Pace Courier Hired Courier Fed X UPS DHL USPS Customer Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: Yes No

Thermometer Used: Therm Fisher IR 7 Therm Fisher IR 10

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 5/16/2022 (ays)

Temp must be measured from Temperature blank when present

Comments:

Temperature Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	1	
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2	
Chain of Custody Complete:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4	
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8	
Filtered vol. Rec. for Diss. tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10	
All containers received within manufacture's precautionary and/or expiration dates.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11	
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12	
All containers preservation checked found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13	If No, was preservative added? <input type="checkbox"/> Yes <input type="checkbox"/> No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

May 02, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGREAP_1356
Pace Project No.: 30476468

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power
Laura Midkiff, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGREAP_1356
Pace Project No.: 30476468

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGREAP_1356

Pace Project No.: 30476468

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30476468001	BC06183 MW-64HO	Water	03/23/22 08:52	03/29/22 22:00
30476468002	BC06183 MW-64HO MS	Water	03/23/22 08:52	03/29/22 22:00
30476468003	BC06183 MW-64HO MSD	Water	03/23/22 08:52	03/29/22 22:00
30476468004	BC06184 FB-1	Water	03/23/22 09:15	03/29/22 22:00
30476468005	BC06185 MW-46HO	Water	03/23/22 09:53	03/29/22 22:00
30476468006	BC06186 MW-46HO DUP	Water	03/23/22 09:53	03/29/22 22:00
30476468007	BC06187 EB-1	Water	03/23/22 10:20	03/29/22 22:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1356
Pace Project No.: 30476468

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30476468001	BC06183 MW-64HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476468002	BC06183 MW-64HO MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30476468003	BC06183 MW-64HO MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30476468004	BC06184 FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476468005	BC06185 MW-46HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476468006	BC06186 MW-46HO DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476468007	BC06187 EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1356

Pace Project No.: 30476468

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: May 02, 2022

General Information:

7 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1356

Pace Project No.: 30476468

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: May 02, 2022

General Information:

7 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1356
Pace Project No.: 30476468

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Alabama Power
Date: May 02, 2022

General Information:

5 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1356

Pace Project No.: 30476468

Sample: BC06183 MW-64HO **Lab ID: 30476468001** Collected: 03/23/22 08:52 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.469 ± 0.239 (0.304) C:97% T:NA	pCi/L	04/26/22 09:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.565U ± 0.325 (0.579) C:76% T:84%	pCi/L	04/18/22 12:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.03 ± 0.564 (0.883)	pCi/L	04/27/22 12:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1356

Pace Project No.: 30476468

Sample: BC06183 MW-64HO MS **Lab ID: 30476468002** Collected: 03/23/22 08:52 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	94.18 %REC ± NA (NA) C:NA T:NA	pCi/L	04/26/22 09:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	93.94 %REC ± NA (NA) C:NA T:NA	pCi/L	04/18/22 12:55	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1356

Pace Project No.: 30476468

Sample: BC06183 MW-64HO MSD **Lab ID: 30476468003** Collected: 03/23/22 08:52 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	100.55 %REC 6.55RPD ± NA (NA) C:NA T:NA	pCi/L	04/26/22 09:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	98.58 %REC 4.82 RPD ± NA (NA) C:NA T:NA	pCi/L	04/18/22 12:55	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1356

Pace Project No.: 30476468

Sample: BC06184 FB-1 **Lab ID: 30476468004** Collected: 03/23/22 09:15 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0381U ± 0.101 (0.250) C:94% T:NA	pCi/L	04/26/22 11:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.185U ± 0.237 (0.603) C:78% T:88%	pCi/L	04/18/22 12:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0381U ± 0.338 (0.853)	pCi/L	04/27/22 12:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1356

Pace Project No.: 30476468

Sample: BC06185 MW-46HO **Lab ID: 30476468005** Collected: 03/23/22 09:53 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.114U ± 0.132 (0.258) C:94% T:NA	pCi/L	04/26/22 11:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.433U ± 0.311 (0.590) C:71% T:88%	pCi/L	04/18/22 12:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.547U ± 0.443 (0.848)	pCi/L	04/27/22 12:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1356

Pace Project No.: 30476468

Sample: BC06186 MW-46HO DUP **Lab ID: 30476468006** Collected: 03/23/22 09:53 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.194U ± 0.165 (0.288) C:96% T:NA	pCi/L	04/26/22 11:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.470U ± 0.329 (0.629) C:74% T:87%	pCi/L	04/18/22 12:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.664U ± 0.494 (0.917)	pCi/L	04/27/22 12:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1356

Pace Project No.: 30476468

Sample: BC06187 EB-1 **Lab ID: 30476468007** Collected: 03/23/22 10:20 Received: 03/29/22 22:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.177U ± 0.163 (0.301) C:101% T:NA	pCi/L	04/26/22 11:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.164U ± 0.306 (0.752) C:74% T:82%	pCi/L	04/18/22 12:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.177U ± 0.469 (1.05)	pCi/L	04/27/22 12:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1356

Pace Project No.: 30476468

QC Batch: 494964

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30476468001, 30476468002, 30476468003, 30476468004, 30476468005, 30476468006, 30476468007

METHOD BLANK: 2394282

Matrix: Water

Associated Lab Samples: 30476468001, 30476468002, 30476468003, 30476468004, 30476468005, 30476468006, 30476468007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.432 ± 0.355 (0.710) C:74% T:87%	pCi/L	04/18/22 12:55	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1356

Pace Project No.: 30476468

QC Batch: 494692

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30476468001, 30476468002, 30476468003, 30476468004, 30476468005, 30476468006, 30476468007

METHOD BLANK: 2393433

Matrix: Water

Associated Lab Samples: 30476468001, 30476468002, 30476468003, 30476468004, 30476468005, 30476468006, 30476468007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.118 ± 0.0948 (0.171) C:101% T:NA	pCi/L	04/26/22 09:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGREAP_1356
Pace Project No.: 30476468

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1356
Pace Project No.: 30476468

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30476468001	BC06183 MW-64HO	EPA 9315	494692		
30476468002	BC06183 MW-64HO MS	EPA 9315	494692		
30476468003	BC06183 MW-64HO MSD	EPA 9315	494692		
30476468004	BC06184 FB-1	EPA 9315	494692		
30476468005	BC06185 MW-46HO	EPA 9315	494692		
30476468006	BC06186 MW-46HO DUP	EPA 9315	494692		
30476468007	BC06187 EB-1	EPA 9315	494692		
30476468001	BC06183 MW-64HO	EPA 9320	494964		
30476468002	BC06183 MW-64HO MS	EPA 9320	494964		
30476468003	BC06183 MW-64HO MSD	EPA 9320	494964		
30476468004	BC06184 FB-1	EPA 9320	494964		
30476468005	BC06185 MW-46HO	EPA 9320	494964		
30476468006	BC06186 MW-46HO DUP	EPA 9320	494964		
30476468007	BC06187 EB-1	EPA 9320	494964		
30476468001	BC06183 MW-64HO	Total Radium Calculation	500399		
30476468004	BC06184 FB-1	Total Radium Calculation	500399		
30476468005	BC06185 MW-46HO	Total Radium Calculation	500399		
30476468006	BC06186 MW-46HO DUP	Total Radium Calculation	500399		
30476468007	BC06187 EB-1	Total Radium Calculation	500399		

REPORT OF LABORATORY ANALYSIS

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NO#: 30476468



Section A

Required Client Information: Alabama Power Company
Address: 744 Highway 87 GSC Bldg #8
Calera, AL 35040
Phone: 205-684-6197 Fax:
Requested Due Date: Normal

Section B
Required Project Information:
Report To: Laura Mickiff
Copy To: Brooke Caton & Renee Jernigan
Attention: Laura Mickiff
Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8
Pace Quote: CCR
Purchase Order #: APC10755638
Project Name: Plant Greene County Ash Pond
Project Number: WMWGREAP_1356
Pace Project Manager: Skyler Richmond
Pace Profile #: 13805

Regulatory Agency: AL
State / Location: AL

SAMPLE ID
One Character per box.
(A-Z, 0-9 / -)

Sample ids must be unique

ITEM #	Description	Station Name Location Code	Site Name Facility ID	Field Filtered	Matrix Code	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE TIME	# OF CONTAINERS	Preservatives			Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)	ADDITIONAL COMMENTS	
									Unpreserved	NaOH+ZnAcetate	HNO3								RELINQUISHED BY / AFFILIATION	DATE
1	BC06183	MW-64HO	APCO-GC-AP-MW-64HO	APCO_GreeneCounty_AshPond	X	GW G	3/23/2022 8:52	3			X	X	X	X				Laura Mickiff APC GTL	3/25/2022 9:35	
2	BC06184	FB-1	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond		GW G	3/23/2022 9:15	1			X	X	X	X				Laura Mickiff APC GTL	3/25/2022 9:35	
3	BC06185	MW-46HO	APCO-GC-AP-MW-46HO	APCO_GreeneCounty_AshPond		GW G	3/23/2022 9:53	1			X	X	X	X				Laura Mickiff APC GTL	3/25/2022 9:35	
4	BC06186	MW-46HO DUP	APCO-GC-AP-MW-46HO	APCO_GreeneCounty_AshPond	X	GW G	3/23/2022 9:53	1			X	X	X	X				Laura Mickiff APC GTL	3/25/2022 9:35	
5	BC06187	EB-1	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond		GW G	3/23/2022 10:20	1			X	X	X	X				Laura Mickiff APC GTL	3/25/2022 9:35	
6																				
7																				
8																				
9																				
10																				
11																				
12																				

RELINQUISHED BY / AFFILIATION: Laura Mickiff APC GTL
DATE: 3/25/2022 9:35
ACCEPTED BY / AFFILIATION: [Signature] Dallas Gentry
DATE: 3-25-22
SAMPLER NAME AND SIGNATURE: Dallas Gentry
PRINT Name of SAMPLER: Dallas Gentry
SIGNATURE of SAMPLER: [Signature] DATE Signed: [Signature]

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____
 Tracking #: 5201 6584 7592

Label AF
 LIMS Login ypinc

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
 Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and Initials of person examining contents:	
	Yes	No	N/A		
Chain of Custody Present:	<input checked="" type="checkbox"/>			1. <u>1p2811</u>	<u>04/11/22 AF</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>			2.	
Chain of Custody Relinquished:		<input checked="" type="checkbox"/>		3. <u>No Signature p</u>	
Sampler Name & Signature on COC:		<input checked="" type="checkbox"/>		4.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>			5.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>			6.	
Short Hold Time Analysis (<72hr remaining):		<input checked="" type="checkbox"/>		7.	
Rush Turn Around Time Requested:		<input checked="" type="checkbox"/>		8.	
Sufficient Volume:	<input checked="" type="checkbox"/>			9.	
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>			10.	
Containers Intact:	<input checked="" type="checkbox"/>			11.	
Orthophosphate field filtered			<input checked="" type="checkbox"/>	12.	
Hex Cr Aqueous sample field filtered			<input checked="" type="checkbox"/>	13.	
Organic Samples checked for dechlorination:			<input checked="" type="checkbox"/>	14.	
Filtered volume received for Dissolved tests			<input checked="" type="checkbox"/>	15.	
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	<input checked="" type="checkbox"/>			16.	<u>ph2</u>
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>			Initial when completed: <u>AF</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>	17.	
Trip Blank Present:		<input checked="" type="checkbox"/>		18.	
Trip Blank Custody Seals Present			<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>			Initial when completed: <u>AF</u>	Date: <u>4/11/22</u> Survey Meter SN: <u>1503</u>

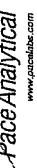
Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

P#: SCR Due Date: 04/20/22
 CLIENT: ALABAMA PWR
 W0#: 30476468

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 4/13/2022
Worklist: 65978
Matrix: WVI

Method Blank Assessment

MB Sample ID: 2394282
MB concentration: 0.432
MB 2 Sigma CSU: 0.355
MB MDC: 0.710
MB Numerical Performance Indicator: 2.38
MB Status vs Numerical Indicator: Warning
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

LCSID (Y or N)?	N	LCSID65978
4/18/2022		
22-016		
36.063		
0.10		
0.807		
4.468		
0.219		
5.259		
1.189		
1.28		
117.70%		
N/A		
Pass		
135%		
60%		

Count Date: 4/18/2022
Spike I.D.: 22-016
Decay Corrected Spike Concentration (pCi/mL): 36.063
Volume Used (mL): 0.10
Aliquot Volume (L, g, F): 0.807
Target Conc. (pCi/L, g, F): 4.468
Uncertainty (Calculated): 0.219
Result (pCi/L, g, F): 5.259
LCS/LCSD 2 Sigma CSU (pCi/L, g, F): 1.189
Numerical Performance Indicator: 1.28
Percent Recovery: 117.70%
Status vs Numerical Indicator: N/A
Status vs Recovery: Pass
Upper % Recovery Limits: 135%
Lower % Recovery Limits: 60%

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Duplicate Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Duplicate Duplicate Result (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

See Below ##

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/23/2022	3/23/2022
Sample I.D.:	30476468001	30476470001
Sample MS I.D.:	30476468002	30476470002
Sample MSD I.D.:	30476468003	30476470003
Spike I.D.:	22-016	22-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.376	36.376
Spike Volume Used in MS (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.808	0.817
MS Target Conc. (pCi/L, g, F):	9.001	8.908
MSD Aliquot (L, g, F):	0.812	0.821
MSD Target Conc. (pCi/L, g, F):	8.962	8.867
MS Spike Uncertainty (calculated):	0.441	0.437
MSD Spike Uncertainty (calculated):	0.439	0.434
Sample Result:	0.565	0.439
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.325	0.327
Sample Matrix Spike Result:	9.021	9.068
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.800	1.822
Sample Matrix Spike Duplicate Result:	9.401	8.596
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.877	1.753
MS Numerical Performance Indicator:	-0.568	-0.288
MSD Numerical Performance Indicator:	-0.127	-0.758
MS Percent Recovery:	93.94%	98.87%
MSD Percent Recovery:	98.58%	92.00%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:	30476468001	30476470001
Sample MS I.D.:	30476468002	30476470002
Sample MSD I.D.:	30476468003	30476470003
Spike I.D.:	22-016	22-016
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	9.021	9.068
Sample Matrix Spike Duplicate Result:	9.401	8.596
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.877	1.753
Duplicate Numerical Performance Indicator:	-0.286	0.366
Duplicate on the Percent Recoveries MS/MSD Duplicate RPD:	4.82%	5.16%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Null/19/22

Null/19/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 4/4/2022
Worklist: 65909
Matrix: DW

Method Blank Assessment	
MB Sample ID	2393433
MB concentration:	0.118
M/B Counting Uncertainty:	0.093
MB MDC:	0.171
MB Numerical Performance Indicator:	2.49
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS# (Y or N)?	Y
LCS#65909	LCS#65909
Count Date:	4/26/2022
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.028
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.515
Target Conc. (pCi/L, g, F):	4.805
Uncertainty (Calculated):	0.056
Result (pCi/L, g, F):	5.079
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.464
Numerical Performance Indicator:	1.15
Percent Recovery:	105.70%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS#65909
Duplicate Sample I.D.:	LCS#65909
Sample Result (pCi/L, g, F):	5.079
Sample Duplicate Result (pCi/L, g, F):	0.464
Sample Result Counting Uncertainty (pCi/L, g, F):	4.651
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.438
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.314
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.90%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	
Sample Collection Date:	3/23/2022
Sample I.D.:	30476468001
Sample MS I.D.:	30476468002
Sample MSD I.D.:	30476468003
Spike I.D.:	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.029
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.253
MS Target Conc. (pCi/L, g, F):	18.994
MSD Aliquot (L, g, F):	0.254
MSD Target Conc. (pCi/L, g, F):	18.934
MS Spike Uncertainty (calculated):	0.228
MSD Spike Uncertainty (calculated):	0.227
Sample Result:	0.469
Sample Result Counting Uncertainty (pCi/L, g, F):	0.229
Sample Matrix Spike Result:	18.357
Sample Result Counting Uncertainty (pCi/L, g, F):	1.237
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	19.508
Sample Matrix Spike Duplicate Result:	21.343
Sample Result Counting Uncertainty (pCi/L, g, F):	1.330
MS Numerical Performance Indicator:	-1.697
MSD Numerical Performance Indicator:	0.158
MS Percent Recovery:	94.18%
MSD Percent Recovery:	100.55%
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	N/A
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	Pass
MS/MSD Upper % Recovery Limits:	125%
MS/MSD Lower % Recovery Limits:	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30476468001
Sample MS I.D.:	30476468002
Sample MSD I.D.:	30476468003
Spike I.D.:	19-033
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.237
Sample Matrix Spike Duplicate Result:	19.508
Sample Result Counting Uncertainty (pCi/L, g, F):	1.257
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	-1.279
Duplicate Numerical Performance Indicator:	6.55%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	10.37%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

4/27/22

AMU/2/22

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

Field Case Narrative



Greene County Ash Pond

2022 Sewell Off-Site Wells Event 1

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

Field quality control procedures were performed as follows:

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

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

Analytical Report



Sample Group : WMWGREAP_1355

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

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

Attention : Dustin Brooks & Greg Dyer

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

May 03, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2022.05.03
09:06:40 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, c=US
United States, o=US United States
e=t.durante@alabamapower.com
Reason: I am approving this document
Location:
Date: 2022-05-03 16:17:05.00



REPORT OF LABORATORY ANALYSIS

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



Total Metals ICP

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	722484	WMWGREAP_1355
BC06157	722484	WMWGREAP_1355
BC06158	722484	WMWGREAP_1355
BC06159	722484	WMWGREAP_1355
BC06160	722484	WMWGREAP_1355
BC06161	722484	WMWGREAP_1355
BC06162	722484	WMWGREAP_1355
BC06163	722484	WMWGREAP_1355
BC06164	722484	WMWGREAP_1355
BC06165	722484	WMWGREAP_1355
BC06166	722485	WMWGREAP_1355

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06157	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	722107	WMWGREAP_1355
BC06157	722107	WMWGREAP_1355
BC06158	722107	WMWGREAP_1355
BC06159	722107	WMWGREAP_1355
BC06161	722107	WMWGREAP_1355
BC06162	722107	WMWGREAP_1355
BC06163	722107	WMWGREAP_1355
BC06164	722107	WMWGREAP_1355
BC06165	722107	WMWGREAP_1355

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any

qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06157	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	722365	WMWGREAP_1355
BC06157	722365	WMWGREAP_1355
BC06158	722365	WMWGREAP_1355
BC06159	722365	WMWGREAP_1355
BC06160	722365	WMWGREAP_1355
BC06161	722365	WMWGREAP_1355
BC06162	722365	WMWGREAP_1355
BC06163	722365	WMWGREAP_1355
BC06164	722365	WMWGREAP_1355
BC06165	722365	WMWGREAP_1355
BC06166	722365	WMWGREAP_1355

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for:
 - BC06156 Aluminum MS/MSD recoveries were outside of the specification limits.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met, except for:
 - BC06156 Aluminum precision was outside of the specification limits.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06156	Manganese	10.15
BC06157	Manganese	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	722278	WMWGREAP_1355
BC06157	722278	WMWGREAP_1355
BC06158	722278	WMWGREAP_1355
BC06159	722278	WMWGREAP_1355
BC06161	722278	WMWGREAP_1355
BC06162	722278	WMWGREAP_1355
BC06163	722278	WMWGREAP_1355
BC06164	722278	WMWGREAP_1355
BC06165	722278	WMWGREAP_1355

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional

QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06156	Manganese	10.15
BC06157	Manganese	10.15

8. The raw data results are shown with dilution factors included.

Mercury

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	721862	WMWGREAP_1355
BC06157	721862	WMWGREAP_1355
BC06158	721862	WMWGREAP_1355
BC06159	721862	WMWGREAP_1355
BC06160	721862	WMWGREAP_1355
BC06161	721862	WMWGREAP_1355
BC06162	721862	WMWGREAP_1355
BC06163	721862	WMWGREAP_1355
BC06164	721862	WMWGREAP_1355
BC06165	721862	WMWGREAP_1355
BC06166	721863	WMWGREAP_1355

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Case Narrative

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	721694	WMWGREAP_1355
BC06157	721694	WMWGREAP_1355
BC06158	721694	WMWGREAP_1355
BC06159	721694	WMWGREAP_1355
BC06160	721694	WMWGREAP_1355
BC06161	721694	WMWGREAP_1355
BC06162	721694	WMWGREAP_1355
BC06163	721694	WMWGREAP_1355
BC06164	721694	WMWGREAP_1355
BC06165	722001	WMWGREAP_1355
BC06166	721694	WMWGREAP_1355

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC06160
 - BC06166

Anions

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	721868, 721952, & 722002	WMWGREAP_1355
BC06157	721868, 721952, & 722002	WMWGREAP_1355
BC06158	721868, 721952, & 722002	WMWGREAP_1355
BC06159	721868, 721952, & 722002	WMWGREAP_1355
BC06160	721868, 721952, & 722002	WMWGREAP_1355
BC06161	721868, 721952, & 722002	WMWGREAP_1355
BC06162	721868, 721952, & 722002	WMWGREAP_1355
BC06163	721868, 721952, & 722002	WMWGREAP_1355
BC06164	721868, 721952, & 722002	WMWGREAP_1355
BC06165	721868, 721952, & 722002	WMWGREAP_1355
BC06166	721869, 721953, & 722003	WMWGREAP_1355

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC06156	Sulfate	3
BC06157	Sulfate	16
BC06162	Sulfate	3
BC06163	Sulfate	3

8. The raw data results are shown with dilution factors included.

Alkalinity

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	722430, 722431	WMWGREAP_1355
BC06157	722430, 722431	WMWGREAP_1355
BC06158	722430, 722431	WMWGREAP_1355
BC06159	722430, 722431	WMWGREAP_1355
BC06161	722430, 722431	WMWGREAP_1355
BC06162	722430, 722431	WMWGREAP_1355
BC06163	722430, 722431	WMWGREAP_1355
BC06164	722430, 722431	WMWGREAP_1355
BC06165	722430, 722431	WMWGREAP_1355

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	721980	WMWGREAP_1355
BC06157	721980	WMWGREAP_1355
BC06158	721980	WMWGREAP_1355
BC06159	721980	WMWGREAP_1355
BC06160	721980	WMWGREAP_1355
BC06161	721980	WMWGREAP_1355
BC06162	721980	WMWGREAP_1355
BC06163	721980	WMWGREAP_1355
BC06164	721980	WMWGREAP_1355
BC06165	721980	WMWGREAP_1355
BC06166	721981	WMWGREAP_1355

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.

Revision 5

Case Narrative

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP_1355

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC06156	722009	WMWGREAP_1355
BC06157	722009	WMWGREAP_1355
BC06158	722009	WMWGREAP_1355
BC06159	722009	WMWGREAP_1355
BC06160	722009	WMWGREAP_1355
BC06161	722009	WMWGREAP_1355
BC06162	722009	WMWGREAP_1355
BC06163	722009	WMWGREAP_1355
BC06164	722009	WMWGREAP_1355
BC06165	722009	WMWGREAP_1355
BC06166	722010	WMWGREAP_1355

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP
Collected: 3/23/22 08:48
Customer ID:
Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06156

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 09:28		1.015	0.508	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/7/22 09:28		1.015	38.7	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/7/22 09:28		1.015	0.118	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/7/22 09:28		1.015	0.110	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/7/22 09:28		1.015	7.34	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:28		1	8.47	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 09:28		1.015	3.96	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 09:28		1.015	31.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:15	4/5/22 08:38		1.015	0.499	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:15	4/5/22 08:38		1.015	38.2	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:15	4/5/22 08:38		1.015	0.0141	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	4/4/22 08:15	4/5/22 08:38		1.015	0.108	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:15	4/5/22 08:38		1.015	7.14	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:15	4/5/22 08:38		1	8.37	mg/L			
Silicon, Dissolved	4/4/22 08:15	4/5/22 08:38		1.015	3.91	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:15	4/5/22 08:38		1.015	31.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:18	3/30/22 10:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 10:58		1.015	0.0679	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:18	3/30/22 10:58		1.015	0.000144	mg/L	0.000081	0.000203	J
* Barium, Total	3/29/22 14:18	3/30/22 10:58		1.015	0.0762	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:18	3/30/22 10:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 10:58		1.015	0.000372	mg/L	0.000068	0.000203	
* Chromium, Total	3/29/22 14:18	3/30/22 10:58		1.015	0.000510	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:18	3/30/22 10:58		1.015	0.00960	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:18	3/30/22 10:58		1.015	0.000130	mg/L	0.000068	0.000203	J
* Manganese, Total	3/29/22 14:18	3/30/22 12:07		10.15	7.15	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/29/22 14:18	3/30/22 10:58		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:18	3/30/22 10:58		1.015	5.56	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP
Collected: 3/23/22 08:48
Customer ID:
Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06156

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:18	3/30/22 10:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:18	3/30/22 10:58		1.015	0.000108	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	0.000143	mg/L	0.000081	0.000203	J
* Barium, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	0.0799	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	0.000437	mg/L	0.000068	0.000203	
* Chromium, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	0.00883	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:38	3/31/22 12:32		10.15	7.11	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	5.70	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:38	3/29/22 14:59		1.015	0.000101	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 19:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 12:54	3/29/22 12:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/1/22 11:00	4/1/22 14:35		1	138	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	236	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	137	mg/L			
Carbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	1.02	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 13:39	3/29/22 13:39		1	1.08	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP

Collected: 3/23/22 08:48

Customer ID:

Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06156

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 10:52	3/28/22 10:52		1	17.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:10	3/28/22 14:10		1	0.160	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:30	3/29/22 12:30		3	60.4	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/23/22 08:44	3/23/22 08:44			392.31	uS/cm			FA
pH	3/23/22 08:44	3/23/22 08:44			6.17	SU			FA
Temperature	3/23/22 08:44	3/23/22 08:44			20.47	C			FA
Turbidity	3/23/22 08:44	3/23/22 08:44			4.51	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 08:48

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BC06156

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06165	Aluminum, Dissolved	mg/L	-0.000282	0.010	0.100	0.126	0.123	0.108	0.0850 to 0.115	104	70.0 to 130	2.41	20.0
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0
BC06165	Antimony, Dissolved	mg/L	0.000252	0.00100	0.100	0.0944	0.0959	0.0972	0.0850 to 0.115	94.4	70.0 to 130	1.58	20.0
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0
BC06165	Arsenic, Dissolved	mg/L	-0.0000604	0.000176	0.100	0.0969	0.0967	0.100	0.0850 to 0.115	96.9	70.0 to 130	0.207	20.0
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0
BC06165	Barium, Dissolved	mg/L	-0.0000329	0.00100	0.100	0.134	0.137	0.103	0.0850 to 0.115	99.2	70.0 to 130	2.21	20.0
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0
BC06165	Beryllium, Dissolved	mg/L	0.0000219	0.000880	0.100	0.0900	0.0881	0.0887	0.0850 to 0.115	90.0	70.0 to 130	2.13	20.0
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0
BC06165	Boron, Dissolved	mg/L	-0.000302	0.0650	1.00	1.01	1.06	1.00	0.850 to 1.15	97.8	70.0 to 130	4.83	20.0
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0
BC06165	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.100	0.0958	0.104	0.0850 to 0.115	100	70.0 to 130	4.29	20.0
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC06165	Calcium, Dissolved	mg/L	-0.0134	0.152	5.00	7.68	6.76	4.91	4.25 to 5.75	108	70.0 to 130	12.7	20.0
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC06165	Chromium, Dissolved	mg/L	-0.0000175	0.000440	0.100	0.0984	0.0964	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.05	20.0
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0
BC06165	Cobalt, Dissolved	mg/L	-0.0000004	0.000147	0.100	0.100	0.0984	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.61	20.0
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0
BC06165	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	0.195	0.195	0.201	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 08:48

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BC06156

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Dissolved	mg/L	0.0000123	0.000147	0.100	0.102	0.0976	0.0980	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Dissolved	mg/L	0.00018	0.0154	0.200	0.199	0.190	0.205	0.170 to 0.230	99.5	70.0 to 130	4.63	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Dissolved	mg/L	-0.000732	0.0462	5.00	6.93	6.20	5.26	4.25 to 5.75	106	70.0 to 130	11.1	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Dissolved	mg/L	0.0000135	0.0002	0.100	0.108	0.106	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.87	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Dissolved	mg/L	-0.0000070	0.0002	0.100	0.0982	0.0974	0.106	0.0850 to 0.115	98.2	70.0 to 130	0.818	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Dissolved	mg/L	0.0183	0.367	10.0	12.1	11.6	10.7	8.50 to 11.5	103	70.0 to 130	4.22	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.0995	0.0981	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.42	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Dissolved	mg/L	-0.000353	0.0440	1.00	5.80	5.79	1.02	0.850 to 1.15	99.0	70.0 to 130	0.173	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Dissolved	mg/L	-0.000098	0.0660	5.00	10.7	9.97	5.27	4.25 to 5.75	104	70.0 to 130	7.06	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0	111	80.0 to 120	0.325	20.0
BC06165	Thallium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.103	0.0971	0.0973	0.0850 to 0.115	103	70.0 to 130	5.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 08:48

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BC06156

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115	96.0	70.0 to 130	2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 08:48

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BC06156

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06165	Alkalinity, Total as CaCO3	mg/L					10.0	50.2	45.0 to 55.0			0.00	10.0
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP
Collected: 3/23/22 10:10
Customer ID:
Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06157

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 09:31		1.015	0.197	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/7/22 11:41		10.15	63.2	mg/L	0.70035	4.06	
* Iron, Total	4/5/22 07:00	4/7/22 09:31		1.015	0.353	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/7/22 09:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 09:31		1.015	16.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:31		1	6.76	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 09:31		1.015	3.16	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 09:31		1.015	27.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:15	4/5/22 08:40		1.015	0.190	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:15	4/5/22 09:31		10.15	57.3	mg/L	0.70035	4.06	
* Iron, Dissolved	4/4/22 08:15	4/5/22 08:40		1.015	0.0574	mg/L	0.008120	0.0406	
* Lithium, Dissolved	4/4/22 08:15	4/5/22 08:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:15	4/5/22 08:40		1.015	16.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:15	4/5/22 08:40		1	6.61	mg/L			
Silicon, Dissolved	4/4/22 08:15	4/5/22 08:40		1.015	3.09	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:15	4/5/22 08:40		1.015	27.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:18	3/30/22 11:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 11:02		1.015	0.0335	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:18	3/30/22 11:02		1.015	0.000819	mg/L	0.000081	0.000203	
* Barium, Total	3/29/22 14:18	3/30/22 11:02		1.015	0.0627	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:18	3/30/22 11:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 11:02		1.015	0.000116	mg/L	0.000068	0.000203	J
* Chromium, Total	3/29/22 14:18	3/30/22 11:02		1.015	0.000309	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:18	3/30/22 11:02		1.015	0.0281	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:18	3/30/22 11:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:18	3/30/22 12:11		10.15	10.3	mg/L	0.001522	0.00203	
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:02		1.015	0.000116	mg/L	0.000102	0.000203	J
* Potassium, Total	3/29/22 14:18	3/30/22 11:02		1.015	3.94	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP
Collected: 3/23/22 10:10
Customer ID:
Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06157

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:18	3/30/22 11:02		1.015	0.000970	mg/L	0.000508	0.001015	J
* Thallium, Total	3/29/22 14:18	3/30/22 11:02		1.015	0.000126	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	0.000474	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	0.0642	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	0.0275	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:38	3/31/22 12:35		10.15	10.6	mg/L	0.001522	0.00203	
* Molybdenum, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	3.94	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	0.000981	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	3/29/22 13:38	3/29/22 15:02		1.015	0.000117	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 19:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 12:55	3/29/22 12:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/1/22 11:00	4/1/22 14:35		1	63.3	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	389	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	62.9	mg/L			
Carbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	< 0.5	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 13:57	3/29/22 13:57		1	1.07	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP

Collected: 3/23/22 10:10

Customer ID:

Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06157

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 10:54	3/28/22 10:54		1	9.19	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:11	3/28/22 14:11		1	0.0775	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:31	3/29/22 12:31		16	225	mg/L	9.6	32	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/23/22 10:07	3/23/22 10:07			531.35	uS/cm			FA
pH	3/23/22 10:07	3/23/22 10:07			5.88	SU			FA
Temperature	3/23/22 10:07	3/23/22 10:07			19.88	C			FA
Turbidity	3/23/22 10:07	3/23/22 10:07			4.69	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 10:10

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BC06157

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06165	Aluminum, Dissolved	mg/L	-0.000282	0.010	0.100	0.126	0.123	0.108	0.0850 to 0.115	104	70.0 to 130	2.41	20.0
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0
BC06165	Antimony, Dissolved	mg/L	0.000252	0.00100	0.100	0.0944	0.0959	0.0972	0.0850 to 0.115	94.4	70.0 to 130	1.58	20.0
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0
BC06165	Arsenic, Dissolved	mg/L	-0.0000604	0.000176	0.100	0.0969	0.0967	0.100	0.0850 to 0.115	96.9	70.0 to 130	0.207	20.0
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0
BC06165	Barium, Dissolved	mg/L	-0.0000329	0.00100	0.100	0.134	0.137	0.103	0.0850 to 0.115	99.2	70.0 to 130	2.21	20.0
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0
BC06165	Beryllium, Dissolved	mg/L	0.0000219	0.000880	0.100	0.0900	0.0881	0.0887	0.0850 to 0.115	90.0	70.0 to 130	2.13	20.0
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0
BC06165	Boron, Dissolved	mg/L	-0.000302	0.0650	1.00	1.01	1.06	1.00	0.850 to 1.15	97.8	70.0 to 130	4.83	20.0
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0
BC06165	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.100	0.0958	0.104	0.0850 to 0.115	100	70.0 to 130	4.29	20.0
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC06165	Calcium, Dissolved	mg/L	-0.0134	0.152	5.00	7.68	6.76	4.91	4.25 to 5.75	108	70.0 to 130	12.7	20.0
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC06165	Chromium, Dissolved	mg/L	-0.0000175	0.000440	0.100	0.0984	0.0964	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.05	20.0
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0
BC06165	Cobalt, Dissolved	mg/L	-0.0000004	0.000147	0.100	0.100	0.0984	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.61	20.0
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0
BC06165	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	0.195	0.195	0.201	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 10:10
Customer ID:
Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BC06157

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Dissolved	mg/L	0.0000123	0.000147	0.100	0.102	0.0976	0.0980	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Dissolved	mg/L	0.00018	0.0154	0.200	0.199	0.190	0.205	0.170 to 0.230	99.5	70.0 to 130	4.63	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Dissolved	mg/L	-0.000732	0.0462	5.00	6.93	6.20	5.26	4.25 to 5.75	106	70.0 to 130	11.1	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Dissolved	mg/L	0.0000135	0.0002	0.100	0.108	0.106	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.87	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Dissolved	mg/L	-0.0000070	0.0002	0.100	0.0982	0.0974	0.106	0.0850 to 0.115	98.2	70.0 to 130	0.818	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Dissolved	mg/L	0.0183	0.367	10.0	12.1	11.6	10.7	8.50 to 11.5	103	70.0 to 130	4.22	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.0995	0.0981	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.42	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Dissolved	mg/L	-0.000353	0.0440	1.00	5.80	5.79	1.02	0.850 to 1.15	99.0	70.0 to 130	0.173	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Dissolved	mg/L	-0.000098	0.0660	5.00	10.7	9.97	5.27	4.25 to 5.75	104	70.0 to 130	7.06	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0	111	80.0 to 120	0.325	20.0
BC06165	Thallium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.103	0.0971	0.0973	0.0850 to 0.115	103	70.0 to 130	5.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 10:10

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BC06157

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115	96.0	70.0 to 130	2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 10:10

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BC06157

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06165	Alkalinity, Total as CaCO3	mg/L					10.0	50.2	45.0 to 55.0			0.00	10.0
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-61HO

Location Code: WMWGREAP
Collected: 3/23/22 11:18
Customer ID:
Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06158

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 09:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/7/22 09:33		1.015	22.4	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/7/22 09:33		1.015	0.0281	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/7/22 09:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 09:33		1.015	1.33	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:33		1	7.45	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 09:33		1.015	3.48	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 09:33		1.015	1.60	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:15	4/5/22 08:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:15	4/5/22 08:42		1.015	23.9	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:15	4/5/22 08:42		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:15	4/5/22 08:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:15	4/5/22 08:42		1.015	1.29	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:15	4/5/22 08:42		1	7.28	mg/L			
Silicon, Dissolved	4/4/22 08:15	4/5/22 08:42		1.015	3.40	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:15	4/5/22 08:42		1.015	1.62	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:18	3/30/22 11:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 11:05		1.015	0.0619	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:18	3/30/22 11:05		1.015	0.000246	mg/L	0.000081	0.000203	
* Barium, Total	3/29/22 14:18	3/30/22 11:05		1.015	0.0411	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:18	3/30/22 11:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 11:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:18	3/30/22 11:05		1.015	0.000654	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:18	3/30/22 11:05		1.015	0.000370	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:18	3/30/22 11:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:18	3/30/22 11:05		1.015	0.0117	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:05		1.015	0.000524	mg/L	0.000102	0.000203	
* Potassium, Total	3/29/22 14:18	3/30/22 11:05		1.015	1.20	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-61HO

Location Code: WMWGREAP
Collected: 3/23/22 11:18
Customer ID:
Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06158

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:18	3/30/22 11:05		1.015	0.000711	mg/L	0.000508	0.001015	J
* Thallium, Total	3/29/22 14:18	3/30/22 11:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	0.00787	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	0.000319	mg/L	0.000081	0.000203	
* Barium, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	0.0413	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	0.000367	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	0.000286	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	0.0113	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	0.000568	mg/L	0.000102	0.000203	
* Potassium, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	1.19	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	0.000641	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	3/29/22 13:38	3/29/22 15:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 19:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 12:57	3/29/22 12:57		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/1/22 11:00	4/1/22 14:35		1	60.2	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	74.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	60.1	mg/L			
Carbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	< 0.5	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 14:15	3/29/22 14:15		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-61HO

Location Code: WMWGREAP

Collected: 3/23/22 11:18

Customer ID:

Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06158

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 10:55	3/28/22 10:55		1	2.07	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:12	3/28/22 14:12		1	0.0871	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:18	3/29/22 12:18		1	10.1	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/23/22 11:14	3/23/22 11:14			119.36	uS/cm			FA
pH	3/23/22 11:14	3/23/22 11:14			6.38	SU			FA
Temperature	3/23/22 11:14	3/23/22 11:14			20.70	C			FA
Turbidity	3/23/22 11:14	3/23/22 11:14			3.48	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 11:18
Customer ID:
Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-61HO

Laboratory ID Number: BC06158

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC06165	Aluminum, Dissolved	mg/L	-0.000282	0.010	0.100	0.126	0.123	0.108	0.0850 to 0.115	104	70.0 to 130	2.41	20.0
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0
BC06165	Antimony, Dissolved	mg/L	0.000252	0.00100	0.100	0.0944	0.0959	0.0972	0.0850 to 0.115	94.4	70.0 to 130	1.58	20.0
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0
BC06165	Arsenic, Dissolved	mg/L	-0.0000604	0.000176	0.100	0.0969	0.0967	0.100	0.0850 to 0.115	96.9	70.0 to 130	0.207	20.0
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0
BC06165	Barium, Dissolved	mg/L	-0.0000329	0.00100	0.100	0.134	0.137	0.103	0.0850 to 0.115	99.2	70.0 to 130	2.21	20.0
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0
BC06165	Beryllium, Dissolved	mg/L	0.0000219	0.000880	0.100	0.0900	0.0881	0.0887	0.0850 to 0.115	90.0	70.0 to 130	2.13	20.0
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0
BC06165	Boron, Dissolved	mg/L	-0.000302	0.0650	1.00	1.01	1.06	1.00	0.850 to 1.15	97.8	70.0 to 130	4.83	20.0
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0
BC06165	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.100	0.0958	0.104	0.0850 to 0.115	100	70.0 to 130	4.29	20.0
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC06165	Calcium, Dissolved	mg/L	-0.0134	0.152	5.00	7.68	6.76	4.91	4.25 to 5.75	108	70.0 to 130	12.7	20.0
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC06165	Chromium, Dissolved	mg/L	-0.0000175	0.000440	0.100	0.0984	0.0964	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.05	20.0
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0
BC06165	Cobalt, Dissolved	mg/L	-0.0000004	0.000147	0.100	0.100	0.0984	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.61	20.0
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0
BC06165	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	0.195	0.195	0.201	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 11:18

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-61HO

Laboratory ID Number: BC06158

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Dissolved	mg/L	0.0000123	0.000147	0.100	0.102	0.0976	0.0980	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Dissolved	mg/L	0.00018	0.0154	0.200	0.199	0.190	0.205	0.170 to 0.230	99.5	70.0 to 130	4.63	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Dissolved	mg/L	-0.000732	0.0462	5.00	6.93	6.20	5.26	4.25 to 5.75	106	70.0 to 130	11.1	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Dissolved	mg/L	0.0000135	0.0002	0.100	0.108	0.106	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.87	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Dissolved	mg/L	-0.0000070	0.0002	0.100	0.0982	0.0974	0.106	0.0850 to 0.115	98.2	70.0 to 130	0.818	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Dissolved	mg/L	0.0183	0.367	10.0	12.1	11.6	10.7	8.50 to 11.5	103	70.0 to 130	4.22	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.0995	0.0981	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.42	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Dissolved	mg/L	-0.000353	0.0440	1.00	5.80	5.79	1.02	0.850 to 1.15	99.0	70.0 to 130	0.173	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Dissolved	mg/L	-0.000098	0.0660	5.00	10.7	9.97	5.27	4.25 to 5.75	104	70.0 to 130	7.06	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0	111	80.0 to 120	0.325	20.0
BC06165	Thallium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.103	0.0971	0.0973	0.0850 to 0.115	103	70.0 to 130	5.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 11:18

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-61HO

Laboratory ID Number: BC06158

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115	96.0	70.0 to 130	2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 11:18

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-61HO

Laboratory ID Number: BC06158

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06165	Alkalinity, Total as CaCO3	mg/L					10.0	50.2	45.0 to 55.0			0.00	10.0
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-60HO

Location Code: WMWGREAP
Collected: 3/23/22 12:22
Customer ID:
Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06159

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 09:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/7/22 09:36		1.015	2.95	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/7/22 09:36		1.015	0.0117	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/7/22 09:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 09:36		1.015	0.857	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:36		1	10.2	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 09:36		1.015	4.77	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 09:36		1.015	6.25	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:15	4/5/22 08:44		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	4/4/22 08:15	4/5/22 08:44		1.015	3.07	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:15	4/5/22 08:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:15	4/5/22 08:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:15	4/5/22 08:44		1.015	0.832	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:15	4/5/22 08:44		1	10.1	mg/L			
Silicon, Dissolved	4/4/22 08:15	4/5/22 08:44		1.015	4.71	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:15	4/5/22 08:44		1.015	5.95	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:18	3/30/22 11:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 11:09		1.015	0.0343	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:18	3/30/22 11:09		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/29/22 14:18	3/30/22 11:09		1.015	0.0338	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:18	3/30/22 11:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 11:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:18	3/30/22 11:09		1.015	0.00111	mg/L	0.000203	0.001015	
* Cobalt, Total	3/29/22 14:18	3/30/22 11:09		1.015	0.000701	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:18	3/30/22 11:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:18	3/30/22 11:09		1.015	0.0149	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:09		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:18	3/30/22 11:09		1.015	1.07	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-60HO

Location Code: WMWGREAP
Collected: 3/23/22 12:22
Customer ID:
Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06159

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:18	3/30/22 11:09		1.015	0.00122	mg/L	0.000508	0.001015	
* Thallium, Total	3/29/22 14:18	3/30/22 11:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	0.0180	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	0.0362	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	0.000391	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	0.000715	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	0.0149	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	1.04	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	0.00116	mg/L	0.000508	0.001015	
* Thallium, Dissolved	3/29/22 13:38	3/29/22 15:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 19:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 12:59	3/29/22 12:59		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/1/22 11:00	4/1/22 14:35		1	12.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	39.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	12.4	mg/L			
Carbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	< 0.5	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 14:35	3/29/22 14:35		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-60HO

Location Code: WMWGREAP
Collected: 3/23/22 12:22
Customer ID:
Submittal Date: 3/24/22 11:23

Laboratory ID Number: BC06159

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 10:56	3/28/22 10:56		1	4.08	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:14	3/28/22 14:14		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:19	3/29/22 12:19		1	6.73	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	3/23/22 12:18	3/23/22 12:18			55.19	uS/cm			FA
pH	3/23/22 12:18	3/23/22 12:18			5.22	SU			FA
Temperature	3/23/22 12:18	3/23/22 12:18			21.05	C			FA
Turbidity	3/23/22 12:18	3/23/22 12:18			2.57	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 12:22
Customer ID:
Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-60HO

Laboratory ID Number: BC06159

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Aluminum, Dissolved	mg/L	-0.000282	0.010	0.100	0.126	0.123	0.108	0.0850 to 0.115	104	70.0 to 130	2.41	20.0
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0
BC06165	Antimony, Dissolved	mg/L	0.000252	0.00100	0.100	0.0944	0.0959	0.0972	0.0850 to 0.115	94.4	70.0 to 130	1.58	20.0
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0
BC06165	Arsenic, Dissolved	mg/L	-0.0000604	0.000176	0.100	0.0969	0.0967	0.100	0.0850 to 0.115	96.9	70.0 to 130	0.207	20.0
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0
BC06165	Barium, Dissolved	mg/L	-0.0000329	0.00100	0.100	0.134	0.137	0.103	0.0850 to 0.115	99.2	70.0 to 130	2.21	20.0
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0
BC06165	Beryllium, Dissolved	mg/L	0.0000219	0.000880	0.100	0.0900	0.0881	0.0887	0.0850 to 0.115	90.0	70.0 to 130	2.13	20.0
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0
BC06165	Boron, Dissolved	mg/L	-0.000302	0.0650	1.00	1.01	1.06	1.00	0.850 to 1.15	97.8	70.0 to 130	4.83	20.0
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0
BC06165	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.100	0.0958	0.104	0.0850 to 0.115	100	70.0 to 130	4.29	20.0
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC06165	Calcium, Dissolved	mg/L	-0.0134	0.152	5.00	7.68	6.76	4.91	4.25 to 5.75	108	70.0 to 130	12.7	20.0
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC06165	Chromium, Dissolved	mg/L	-0.0000175	0.000440	0.100	0.0984	0.0964	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.05	20.0
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0
BC06165	Cobalt, Dissolved	mg/L	-0.0000004	0.000147	0.100	0.100	0.0984	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.61	20.0
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0
BC06165	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	0.195	0.195	0.201	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 12:22

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-60HO

Laboratory ID Number: BC06159

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Dissolved	mg/L	0.0000123	0.000147	0.100	0.102	0.0976	0.0980	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Dissolved	mg/L	0.00018	0.0154	0.200	0.199	0.190	0.205	0.170 to 0.230	99.5	70.0 to 130	4.63	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Dissolved	mg/L	-0.000732	0.0462	5.00	6.93	6.20	5.26	4.25 to 5.75	106	70.0 to 130	11.1	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Dissolved	mg/L	0.0000135	0.0002	0.100	0.108	0.106	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.87	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Dissolved	mg/L	-0.0000070	0.0002	0.100	0.0982	0.0974	0.106	0.0850 to 0.115	98.2	70.0 to 130	0.818	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Dissolved	mg/L	0.0183	0.367	10.0	12.1	11.6	10.7	8.50 to 11.5	103	70.0 to 130	4.22	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.0995	0.0981	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.42	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Dissolved	mg/L	-0.000353	0.0440	1.00	5.80	5.79	1.02	0.850 to 1.15	99.0	70.0 to 130	0.173	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Dissolved	mg/L	-0.000098	0.0660	5.00	10.7	9.97	5.27	4.25 to 5.75	104	70.0 to 130	7.06	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0	111	80.0 to 120	0.325	20.0
BC06165	Thallium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.103	0.0971	0.0973	0.0850 to 0.115	103	70.0 to 130	5.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 12:22

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-60HO

Laboratory ID Number: BC06159

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115	96.0	70.0 to 130	2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 12:22

Customer ID:

Delivery Date: 3/24/22 11:23

Description: Greene County Ash Pond - MW-60HO

Laboratory ID Number: BC06159

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06165	Alkalinity, Total as CaCO3	mg/L					10.0	50.2	45.0 to 55.0			0.00	10.0
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/23/22 12:45
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06160

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	4/5/22 07:00	4/7/22 09:39		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	4/5/22 07:00	4/7/22 09:39		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	4/5/22 07:00	4/7/22 09:39		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	4/5/22 07:00	4/7/22 09:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	4/5/22 07:00	4/7/22 09:39		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:39		1	Not Detected	mg/L				
Silicon, Total	4/5/22 07:00	4/7/22 09:39		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	4/5/22 07:00	4/7/22 09:39		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Beryllium, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	3/29/22 14:18	3/30/22 11:13		1.015	0.000349	mg/L	0.000203	0.001015	J	
* Cobalt, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	3/29/22 14:18	3/30/22 11:13		1.015	0.000171	mg/L	0.000152	0.000203	J	
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	3/29/22 14:18	3/30/22 11:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 19:44		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: CES								
* Nitrogen, Nitrate/Nitrite	3/29/22 13:01	3/29/22 13:01		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 3/23/22 12:45
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06160

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 14:54	3/29/22 14:54		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 10:57	3/28/22 10:57		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:15	3/28/22 14:15		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:20	3/29/22 12:20		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/23/22 12:45

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06160

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/23/22 12:45

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06160

Sample	Analysis	Units	MB	MB				Standard	Standard		Rec		Prec	Limit	
				Limit	Spike	MS	MSD		Limit	Rec	Limit	Prec			
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0		111	80.0 to 120		0.325	20.0
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115		96.0	70.0 to 130		2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0			103	80.0 to 120		0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 3/23/22 12:45

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC06160

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-63HO

Location Code: WMWGREAP
Collected: 3/23/22 11:32
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06161

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 09:42		1.015	0.0339	mg/L	0.030000	0.1015	J
* Calcium, Total	4/5/22 07:00	4/7/22 09:42		1.015	6.43	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/7/22 09:42		1.015	0.0150	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/7/22 09:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 09:42		1.015	1.28	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:42		1	6.53	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 09:42		1.015	3.05	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 09:42		1.015	2.92	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:15	4/5/22 08:46		1.015	0.0323	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/4/22 08:15	4/5/22 08:46		1.015	6.08	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:15	4/5/22 08:46		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:15	4/5/22 08:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:15	4/5/22 08:46		1.015	1.25	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:15	4/5/22 08:46		1	6.40	mg/L			
Silicon, Dissolved	4/4/22 08:15	4/5/22 08:46		1.015	2.99	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:15	4/5/22 08:46		1.015	2.84	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:18	3/30/22 11:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 11:16		1.015	0.0300	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:18	3/30/22 11:16		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/29/22 14:18	3/30/22 11:16		1.015	0.0498	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:18	3/30/22 11:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 11:16		1.015	0.000104	mg/L	0.000068	0.000203	J
* Chromium, Total	3/29/22 14:18	3/30/22 11:16		1.015	0.000448	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:18	3/30/22 11:16		1.015	0.000314	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:18	3/30/22 11:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:18	3/30/22 11:16		1.015	0.0193	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:16		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:18	3/30/22 11:16		1.015	0.824	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-63HO

Location Code: WMWGREAP
Collected: 3/23/22 11:32
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06161

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:18	3/30/22 11:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:18	3/30/22 11:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	0.0222	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	0.0533	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	0.000300	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	0.000286	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	0.0183	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	0.851	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:38	3/29/22 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 19:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 13:03	3/29/22 13:03		1	0.211	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/1/22 11:00	4/1/22 14:35		1	4.04	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	41.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	4.03	mg/L			
Carbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	< 0.5	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 15:11	3/29/22 15:11		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-63HO

Location Code: WMWGREAP

Collected: 3/23/22 11:32

Customer ID:

Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06161

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 10:58	3/28/22 10:58		1	2.42	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:16	3/28/22 14:16		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:22	3/29/22 12:22		1	18.5	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/23/22 11:29	3/23/22 11:29			58.17	uS/cm			FA
pH	3/23/22 11:29	3/23/22 11:29			5.34	SU			FA
Temperature	3/23/22 11:29	3/23/22 11:29			17.04	C			FA
Turbidity	3/23/22 11:29	3/23/22 11:29			1.08	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 11:32
Customer ID:
Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-63HO

Laboratory ID Number: BC06161

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC06165	Aluminum, Dissolved	mg/L	-0.000282	0.010	0.100	0.126	0.123	0.108	0.0850 to 0.115	104	70.0 to 130	2.41	20.0	
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0	
BC06165	Antimony, Dissolved	mg/L	0.000252	0.00100	0.100	0.0944	0.0959	0.0972	0.0850 to 0.115	94.4	70.0 to 130	1.58	20.0	
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0	
BC06165	Arsenic, Dissolved	mg/L	-0.0000604	0.000176	0.100	0.0969	0.0967	0.100	0.0850 to 0.115	96.9	70.0 to 130	0.207	20.0	
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0	
BC06165	Barium, Dissolved	mg/L	-0.0000329	0.00100	0.100	0.134	0.137	0.103	0.0850 to 0.115	99.2	70.0 to 130	2.21	20.0	
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0	
BC06165	Beryllium, Dissolved	mg/L	0.0000219	0.000880	0.100	0.0900	0.0881	0.0887	0.0850 to 0.115	90.0	70.0 to 130	2.13	20.0	
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0	
BC06165	Boron, Dissolved	mg/L	-0.000302	0.0650	1.00	1.01	1.06	1.00	0.850 to 1.15	97.8	70.0 to 130	4.83	20.0	
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0	
BC06165	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.100	0.0958	0.104	0.0850 to 0.115	100	70.0 to 130	4.29	20.0	
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0	
BC06165	Calcium, Dissolved	mg/L	-0.0134	0.152	5.00	7.68	6.76	4.91	4.25 to 5.75	108	70.0 to 130	12.7	20.0	
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0	
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0	
BC06165	Chromium, Dissolved	mg/L	-0.0000175	0.000440	0.100	0.0984	0.0964	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.05	20.0	
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0	
BC06165	Cobalt, Dissolved	mg/L	-0.0000004	0.000147	0.100	0.100	0.0984	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.61	20.0	
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0	
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0	
BC06165	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	0.195	0.195	0.201	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 11:32
Customer ID:
Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-63HO

Laboratory ID Number: BC06161

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Dissolved	mg/L	0.0000123	0.000147	0.100	0.102	0.0976	0.0980	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Dissolved	mg/L	0.00018	0.0154	0.200	0.199	0.190	0.205	0.170 to 0.230	99.5	70.0 to 130	4.63	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Dissolved	mg/L	-0.000732	0.0462	5.00	6.93	6.20	5.26	4.25 to 5.75	106	70.0 to 130	11.1	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Dissolved	mg/L	0.0000135	0.0002	0.100	0.108	0.106	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.87	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Dissolved	mg/L	-0.0000070	0.0002	0.100	0.0982	0.0974	0.106	0.0850 to 0.115	98.2	70.0 to 130	0.818	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Dissolved	mg/L	0.0183	0.367	10.0	12.1	11.6	10.7	8.50 to 11.5	103	70.0 to 130	4.22	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.0995	0.0981	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.42	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Dissolved	mg/L	-0.000353	0.0440	1.00	5.80	5.79	1.02	0.850 to 1.15	99.0	70.0 to 130	0.173	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Dissolved	mg/L	-0.000098	0.0660	5.00	10.7	9.97	5.27	4.25 to 5.75	104	70.0 to 130	7.06	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0	111	80.0 to 120	0.325	20.0
BC06165	Thallium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.103	0.0971	0.0973	0.0850 to 0.115	103	70.0 to 130	5.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 11:32

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-63HO

Laboratory ID Number: BC06161

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115	96.0	70.0 to 130	2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 11:32

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-63HO

Laboratory ID Number: BC06161

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06165	Alkalinity, Total as CaCO3	mg/L					10.0	50.2	45.0 to 55.0			0.00	10.0
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP
Collected: 3/23/22 13:01
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06162

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 09:45		1.015	0.159	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/7/22 09:45		1.015	21.1	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/7/22 09:45		1.015	0.0147	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/7/22 09:45		1.015	0.0531	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/7/22 09:45		1.015	5.45	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:45		1	7.21	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 09:45		1.015	3.37	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 09:45		1.015	16.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:15	4/5/22 08:48		1.015	0.152	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:15	4/5/22 08:48		1.015	20.0	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:15	4/5/22 08:48		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:15	4/5/22 08:48		1.015	0.0500	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:15	4/5/22 08:48		1.015	5.22	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:15	4/5/22 08:48		1	7.17	mg/L			
Silicon, Dissolved	4/4/22 08:15	4/5/22 08:48		1.015	3.35	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:15	4/5/22 08:48		1.015	15.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:18	3/30/22 11:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 11:20		1.015	0.0132	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:18	3/30/22 11:20		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/29/22 14:18	3/30/22 11:20		1.015	0.0332	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:18	3/30/22 11:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:18	3/30/22 11:20		1.015	0.000398	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:18	3/30/22 11:20		1.015	0.000246	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:18	3/30/22 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:18	3/30/22 11:20		1.015	0.127	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:20		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:18	3/30/22 11:20		1.015	3.48	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP
Collected: 3/23/22 13:01
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06162

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:18	3/30/22 11:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:18	3/30/22 11:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	0.0352	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	0.0000727	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	0.000209	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	0.125	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	3.50	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:38	3/29/22 15:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 19:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 13:05	3/29/22 13:05		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/1/22 11:00	4/1/22 14:35		1	42.9	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	137	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	42.6	mg/L			
Carbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	< 0.5	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 15:31	3/29/22 15:31		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP

Collected: 3/23/22 13:01

Customer ID:

Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06162

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:00	3/28/22 11:00		1	8.80	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:17	3/28/22 14:17		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:32	3/29/22 12:32		3	61.1	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/23/22 12:58	3/23/22 12:58			235.66	uS/cm			FA
pH	3/23/22 12:58	3/23/22 12:58			5.30	SU			FA
Temperature	3/23/22 12:58	3/23/22 12:58			19.03	C			FA
Turbidity	3/23/22 12:58	3/23/22 12:58			2.98	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:01

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BC06162

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06165	Aluminum, Dissolved	mg/L	-0.000282	0.010	0.100	0.126	0.123	0.108	0.0850 to 0.115	104	70.0 to 130	2.41	20.0
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0
BC06165	Antimony, Dissolved	mg/L	0.000252	0.00100	0.100	0.0944	0.0959	0.0972	0.0850 to 0.115	94.4	70.0 to 130	1.58	20.0
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0
BC06165	Arsenic, Dissolved	mg/L	-0.0000604	0.000176	0.100	0.0969	0.0967	0.100	0.0850 to 0.115	96.9	70.0 to 130	0.207	20.0
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0
BC06165	Barium, Dissolved	mg/L	-0.0000329	0.00100	0.100	0.134	0.137	0.103	0.0850 to 0.115	99.2	70.0 to 130	2.21	20.0
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0
BC06165	Beryllium, Dissolved	mg/L	0.0000219	0.000880	0.100	0.0900	0.0881	0.0887	0.0850 to 0.115	90.0	70.0 to 130	2.13	20.0
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0
BC06165	Boron, Dissolved	mg/L	-0.000302	0.0650	1.00	1.01	1.06	1.00	0.850 to 1.15	97.8	70.0 to 130	4.83	20.0
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0
BC06165	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.100	0.0958	0.104	0.0850 to 0.115	100	70.0 to 130	4.29	20.0
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC06165	Calcium, Dissolved	mg/L	-0.0134	0.152	5.00	7.68	6.76	4.91	4.25 to 5.75	108	70.0 to 130	12.7	20.0
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC06165	Chromium, Dissolved	mg/L	-0.0000175	0.000440	0.100	0.0984	0.0964	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.05	20.0
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0
BC06165	Cobalt, Dissolved	mg/L	-0.0000004	0.000147	0.100	0.100	0.0984	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.61	20.0
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0
BC06165	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	0.195	0.195	0.201	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:01

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BC06162

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Dissolved	mg/L	0.0000123	0.000147	0.100	0.102	0.0976	0.0980	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Dissolved	mg/L	0.00018	0.0154	0.200	0.199	0.190	0.205	0.170 to 0.230	99.5	70.0 to 130	4.63	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Dissolved	mg/L	-0.000732	0.0462	5.00	6.93	6.20	5.26	4.25 to 5.75	106	70.0 to 130	11.1	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Dissolved	mg/L	0.0000135	0.0002	0.100	0.108	0.106	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.87	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Dissolved	mg/L	-0.0000070	0.0002	0.100	0.0982	0.0974	0.106	0.0850 to 0.115	98.2	70.0 to 130	0.818	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Dissolved	mg/L	0.0183	0.367	10.0	12.1	11.6	10.7	8.50 to 11.5	103	70.0 to 130	4.22	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.0995	0.0981	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.42	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Dissolved	mg/L	-0.000353	0.0440	1.00	5.80	5.79	1.02	0.850 to 1.15	99.0	70.0 to 130	0.173	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Dissolved	mg/L	-0.000098	0.0660	5.00	10.7	9.97	5.27	4.25 to 5.75	104	70.0 to 130	7.06	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0	111	80.0 to 120	0.325	20.0
BC06165	Thallium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.103	0.0971	0.0973	0.0850 to 0.115	103	70.0 to 130	5.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:01

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BC06162

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115	96.0	70.0 to 130	2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:01

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BC06162

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06165	Alkalinity, Total as CaCO3	mg/L					10.0	50.2	45.0 to 55.0			0.00	10.0
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-47HO DUP

Location Code: WMWGREAP
Collected: 3/23/22 13:01
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06163

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 09:48		1.015	0.158	mg/L	0.030000	0.1015	
* Calcium, Total	4/5/22 07:00	4/7/22 09:48		1.015	20.7	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/7/22 09:48		1.015	0.0114	mg/L	0.008120	0.0406	J
* Lithium, Total	4/5/22 07:00	4/7/22 09:48		1.015	0.0521	mg/L	0.007105	0.01999956	
* Magnesium, Total	4/5/22 07:00	4/7/22 09:48		1.015	5.36	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:48		1	7.19	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 09:48		1.015	3.36	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 09:48		1.015	16.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:15	4/5/22 08:50		1.015	0.151	mg/L	0.030000	0.1015	
* Calcium, Dissolved	4/4/22 08:15	4/5/22 08:50		1.015	19.8	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:15	4/5/22 08:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:15	4/5/22 08:50		1.015	0.0508	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	4/4/22 08:15	4/5/22 08:50		1.015	5.27	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:15	4/5/22 08:50		1	7.23	mg/L			
Silicon, Dissolved	4/4/22 08:15	4/5/22 08:50		1.015	3.38	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:15	4/5/22 08:50		1.015	15.9	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:18	3/30/22 11:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 11:24		1.015	0.0135	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:18	3/30/22 11:24		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/29/22 14:18	3/30/22 11:24		1.015	0.0343	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:18	3/30/22 11:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 11:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:18	3/30/22 11:24		1.015	0.000307	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:18	3/30/22 11:24		1.015	0.000238	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:18	3/30/22 11:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:18	3/30/22 11:24		1.015	0.125	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:24		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:18	3/30/22 11:24		1.015	3.37	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-47HO DUP

Location Code: WMWGREAP
Collected: 3/23/22 13:01
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06163

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:18	3/30/22 11:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:18	3/30/22 11:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	0.0354	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	0.000219	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	0.130	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	3.46	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:38	3/29/22 15:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 19:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 13:07	3/29/22 13:07		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/1/22 11:00	4/1/22 14:35		1	43.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	137	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	42.7	mg/L			
Carbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	< 0.5	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 15:49	3/29/22 15:49		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-47HO DUP

Location Code: WMWGREAP

Collected: 3/23/22 13:01

Customer ID:

Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06163

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:01	3/28/22 11:01		1	8.82	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:18	3/28/22 14:18		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:34	3/29/22 12:34		3	61.6	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	3/23/22 12:58	3/23/22 12:58			235.66	uS/cm			FA
pH	3/23/22 12:58	3/23/22 12:58			5.30	SU			FA
Temperature	3/23/22 12:58	3/23/22 12:58			19.03	C			FA
Turbidity	3/23/22 12:58	3/23/22 12:58			2.98	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:01

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-47HO DUP

Laboratory ID Number: BC06163

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06165	Aluminum, Dissolved	mg/L	-0.000282	0.010	0.100	0.126	0.123	0.108	0.0850 to 0.115	104	70.0 to 130	2.41	20.0
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0
BC06165	Antimony, Dissolved	mg/L	0.000252	0.00100	0.100	0.0944	0.0959	0.0972	0.0850 to 0.115	94.4	70.0 to 130	1.58	20.0
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0
BC06165	Arsenic, Dissolved	mg/L	-0.0000604	0.000176	0.100	0.0969	0.0967	0.100	0.0850 to 0.115	96.9	70.0 to 130	0.207	20.0
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0
BC06165	Barium, Dissolved	mg/L	-0.0000329	0.00100	0.100	0.134	0.137	0.103	0.0850 to 0.115	99.2	70.0 to 130	2.21	20.0
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0
BC06165	Beryllium, Dissolved	mg/L	0.0000219	0.000880	0.100	0.0900	0.0881	0.0887	0.0850 to 0.115	90.0	70.0 to 130	2.13	20.0
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0
BC06165	Boron, Dissolved	mg/L	-0.000302	0.0650	1.00	1.01	1.06	1.00	0.850 to 1.15	97.8	70.0 to 130	4.83	20.0
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0
BC06165	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.100	0.0958	0.104	0.0850 to 0.115	100	70.0 to 130	4.29	20.0
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC06165	Calcium, Dissolved	mg/L	-0.0134	0.152	5.00	7.68	6.76	4.91	4.25 to 5.75	108	70.0 to 130	12.7	20.0
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC06165	Chromium, Dissolved	mg/L	-0.0000175	0.000440	0.100	0.0984	0.0964	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.05	20.0
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0
BC06165	Cobalt, Dissolved	mg/L	-0.0000004	0.000147	0.100	0.100	0.0984	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.61	20.0
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0
BC06165	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	0.195	0.195	0.201	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:01

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-47HO DUP

Laboratory ID Number: BC06163

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Dissolved	mg/L	0.0000123	0.000147	0.100	0.102	0.0976	0.0980	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Dissolved	mg/L	0.00018	0.0154	0.200	0.199	0.190	0.205	0.170 to 0.230	99.5	70.0 to 130	4.63	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Dissolved	mg/L	-0.000732	0.0462	5.00	6.93	6.20	5.26	4.25 to 5.75	106	70.0 to 130	11.1	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Dissolved	mg/L	0.0000135	0.0002	0.100	0.108	0.106	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.87	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Dissolved	mg/L	-0.0000070	0.0002	0.100	0.0982	0.0974	0.106	0.0850 to 0.115	98.2	70.0 to 130	0.818	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Dissolved	mg/L	0.0183	0.367	10.0	12.1	11.6	10.7	8.50 to 11.5	103	70.0 to 130	4.22	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.0995	0.0981	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.42	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Dissolved	mg/L	-0.000353	0.0440	1.00	5.80	5.79	1.02	0.850 to 1.15	99.0	70.0 to 130	0.173	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Dissolved	mg/L	-0.000098	0.0660	5.00	10.7	9.97	5.27	4.25 to 5.75	104	70.0 to 130	7.06	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0	111	80.0 to 120	0.325	20.0
BC06165	Thallium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.103	0.0971	0.0973	0.0850 to 0.115	103	70.0 to 130	5.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:01

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-47HO DUP

Laboratory ID Number: BC06163

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115	96.0	70.0 to 130	2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:01

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-47HO DUP

Laboratory ID Number: BC06163

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC06165	Alkalinity, Total as CaCO3	mg/L					10.0	50.2	45.0 to 55.0			0.00	10.0
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-62HO

Location Code: WMWGREAP
Collected: 3/23/22 12:25
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06164

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 09:51		1.015	0.0339	mg/L	0.030000	0.1015	J
* Calcium, Total	4/5/22 07:00	4/7/22 09:51		1.015	8.23	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/7/22 09:51		1.015	0.192	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/7/22 09:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 09:51		1.015	1.26	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:51		1	6.76	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 09:51		1.015	3.16	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 09:51		1.015	3.28	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	4/4/22 08:15	4/5/22 08:52		1.015	0.0323	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/4/22 08:15	4/5/22 08:52		1.015	8.07	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:15	4/5/22 08:52		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:15	4/5/22 08:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:15	4/5/22 08:52		1.015	1.20	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:15	4/5/22 08:52		1	6.36	mg/L			
Silicon, Dissolved	4/4/22 08:15	4/5/22 08:52		1.015	2.97	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:15	4/5/22 08:52		1.015	3.22	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:18	3/30/22 11:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.157	mg/L	0.006090	0.01015	
* Arsenic, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.000113	mg/L	0.000081	0.000203	J
* Barium, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.0807	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:18	3/30/22 11:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.0000713	mg/L	0.000068	0.000203	J
* Chromium, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.000723	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.000380	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.000159	mg/L	0.000068	0.000203	J
* Manganese, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.0309	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.000126	mg/L	0.000102	0.000203	J
* Potassium, Total	3/29/22 14:18	3/30/22 11:27		1.015	0.836	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-62HO

Location Code: WMWGREAP
Collected: 3/23/22 12:25
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06164

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:18	3/30/22 11:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:18	3/30/22 11:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	0.0101	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	0.0814	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	0.0000731	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	0.000336	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	0.000103	mg/L	0.000068	0.000203	J
* Lead, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	0.0179	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	0.000126	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	0.838	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:38	3/29/22 15:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 20:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 13:09	3/29/22 13:09		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/1/22 11:00	4/1/22 14:35		1	13.5	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	44.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	13.5	mg/L			
Carbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	< 0.5	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 16:03	3/29/22 16:03		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-62HO

Location Code: WMWGREAP

Collected: 3/23/22 12:25

Customer ID:

Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06164

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:02	3/28/22 11:02		1	3.19	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:20	3/28/22 14:20		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:25	3/29/22 12:25		1	15.9	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/23/22 12:23	3/23/22 12:23			72.90	uS/cm			FA
pH	3/23/22 12:23	3/23/22 12:23			5.82	SU			FA
Temperature	3/23/22 12:23	3/23/22 12:23			17.93	C			FA
Turbidity	3/23/22 12:23	3/23/22 12:23			6	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 12:25

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-62HO

Laboratory ID Number: BC06164

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06165	Aluminum, Dissolved	mg/L	-0.000282	0.010	0.100	0.126	0.123	0.108	0.0850 to 0.115	104	70.0 to 130	2.41	20.0
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0
BC06165	Antimony, Dissolved	mg/L	0.000252	0.00100	0.100	0.0944	0.0959	0.0972	0.0850 to 0.115	94.4	70.0 to 130	1.58	20.0
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0
BC06165	Arsenic, Dissolved	mg/L	-0.0000604	0.000176	0.100	0.0969	0.0967	0.100	0.0850 to 0.115	96.9	70.0 to 130	0.207	20.0
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0
BC06165	Barium, Dissolved	mg/L	-0.0000329	0.00100	0.100	0.134	0.137	0.103	0.0850 to 0.115	99.2	70.0 to 130	2.21	20.0
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0
BC06165	Beryllium, Dissolved	mg/L	0.0000219	0.000880	0.100	0.0900	0.0881	0.0887	0.0850 to 0.115	90.0	70.0 to 130	2.13	20.0
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0
BC06165	Boron, Dissolved	mg/L	-0.000302	0.0650	1.00	1.01	1.06	1.00	0.850 to 1.15	97.8	70.0 to 130	4.83	20.0
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0
BC06165	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.100	0.0958	0.104	0.0850 to 0.115	100	70.0 to 130	4.29	20.0
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC06165	Calcium, Dissolved	mg/L	-0.0134	0.152	5.00	7.68	6.76	4.91	4.25 to 5.75	108	70.0 to 130	12.7	20.0
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC06165	Chromium, Dissolved	mg/L	-0.0000175	0.000440	0.100	0.0984	0.0964	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.05	20.0
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0
BC06165	Cobalt, Dissolved	mg/L	-0.0000004	0.000147	0.100	0.100	0.0984	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.61	20.0
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0
BC06165	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	0.195	0.195	0.201	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 12:25

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-62HO

Laboratory ID Number: BC06164

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Dissolved	mg/L	0.0000123	0.000147	0.100	0.102	0.0976	0.0980	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Dissolved	mg/L	0.00018	0.0154	0.200	0.199	0.190	0.205	0.170 to 0.230	99.5	70.0 to 130	4.63	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Dissolved	mg/L	-0.000732	0.0462	5.00	6.93	6.20	5.26	4.25 to 5.75	106	70.0 to 130	11.1	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Dissolved	mg/L	0.0000135	0.0002	0.100	0.108	0.106	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.87	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Dissolved	mg/L	-0.0000070	0.0002	0.100	0.0982	0.0974	0.106	0.0850 to 0.115	98.2	70.0 to 130	0.818	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Dissolved	mg/L	0.0183	0.367	10.0	12.1	11.6	10.7	8.50 to 11.5	103	70.0 to 130	4.22	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.0995	0.0981	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.42	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Dissolved	mg/L	-0.000353	0.0440	1.00	5.80	5.79	1.02	0.850 to 1.15	99.0	70.0 to 130	0.173	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Dissolved	mg/L	-0.000098	0.0660	5.00	10.7	9.97	5.27	4.25 to 5.75	104	70.0 to 130	7.06	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0	111	80.0 to 120	0.325	20.0
BC06165	Thallium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.103	0.0971	0.0973	0.0850 to 0.115	103	70.0 to 130	5.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/23/22 12:25
Customer ID:
Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-62HO

Laboratory ID Number: BC06164

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115	96.0	70.0 to 130	2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 12:25

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-62HO

Laboratory ID Number: BC06164

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06165	Alkalinity, Total as CaCO3	mg/L					10.0	50.2	45.0 to 55.0			0.00	10.0
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP
Collected: 3/23/22 13:50
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06165

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA			Preparation Method: EPA 1638			
* Boron, Total	4/5/22 07:00	4/7/22 09:54		1.015	0.0337	mg/L	0.030000	0.1015	J
* Calcium, Total	4/5/22 07:00	4/7/22 09:54		1.015	2.26	mg/L	0.070035	0.406	
* Iron, Total	4/5/22 07:00	4/7/22 09:54		1.015	0.132	mg/L	0.008120	0.0406	
* Lithium, Total	4/5/22 07:00	4/7/22 09:54		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 09:54		1.015	1.73	mg/L	0.021315	0.406	
Silica, Total (calc.)	4/5/22 07:00	4/7/22 09:54		1	10.6	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 09:54		1.015	4.97	mg/L	0.02030	0.25375	
* Sodium, Total	4/5/22 07:00	4/7/22 09:54		1.015	5.78	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA						
* Boron, Dissolved	4/4/22 08:15	4/5/22 08:53		1.015	0.0318	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	4/4/22 08:15	4/5/22 08:53		1.015	2.28	mg/L	0.070035	0.406	
* Iron, Dissolved	4/4/22 08:15	4/5/22 08:53		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	4/4/22 08:15	4/5/22 08:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	4/4/22 08:15	4/5/22 08:53		1.015	1.65	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	4/4/22 08:15	4/5/22 08:53		1	10.3	mg/L			
Silicon, Dissolved	4/4/22 08:15	4/5/22 08:53		1.015	4.81	mg/L	0.02030	0.25375	
* Sodium, Dissolved	4/4/22 08:15	4/5/22 08:53		1.015	5.51	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	3/29/22 14:18	3/30/22 11:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 11:31		1.015	0.0871	mg/L	0.006090	0.01015	R
* Arsenic, Total	3/29/22 14:18	3/30/22 11:31		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/29/22 14:18	3/30/22 11:31		1.015	0.0352	mg/L	0.000102	0.000203	
* Beryllium, Total	3/29/22 14:18	3/30/22 11:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 11:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:18	3/30/22 11:31		1.015	0.00107	mg/L	0.000203	0.001015	
* Cobalt, Total	3/29/22 14:18	3/30/22 11:31		1.015	0.00102	mg/L	0.000068	0.000203	
* Lead, Total	3/29/22 14:18	3/30/22 11:31		1.015	0.000102	mg/L	0.000068	0.000203	J
* Manganese, Total	3/29/22 14:18	3/30/22 11:31		1.015	0.00971	mg/L	0.000152	0.000203	
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:31		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:18	3/30/22 11:31		1.015	1.85	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Aluminum MS/MSD recovery and precision did not meet specification limits.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP
Collected: 3/23/22 13:50
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06165

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	3/29/22 14:18	3/30/22 11:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:18	3/30/22 11:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	0.0225	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	0.0348	mg/L	0.000102	0.000203	
* Beryllium, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	0.000574	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	0.000901	mg/L	0.000068	0.000203	
* Lead, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	0.00893	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	1.83	mg/L	0.169505	0.5075	
* Selenium, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	3/29/22 13:38	3/29/22 15:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 20:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 13:10	3/29/22 13:10		1	0.283	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	4/1/22 11:00	4/1/22 14:35		1	10.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/29/22 11:23	3/30/22 12:58		1	47.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	10.0	mg/L			
Carbonate Alkalinity, (calc.)	4/1/22 11:00	4/1/22 14:35		1	< 0.5	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 16:18	3/29/22 16:18		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Aluminum MS/MSD recovery and precision did not meet specification limits.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP

Collected: 3/23/22 13:50

Customer ID:

Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06165

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:03	3/28/22 11:03		1	4.56	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:21	3/28/22 14:21		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:26	3/29/22 12:26		1	8.46	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	3/23/22 13:47	3/23/22 13:47			57.34	uS/cm			FA
pH	3/23/22 13:47	3/23/22 13:47			5.20	SU			FA
Temperature	3/23/22 13:47	3/23/22 13:47			18.30	C			FA
Turbidity	3/23/22 13:47	3/23/22 13:47			4.37	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Aluminum MS/MSD recovery and precision did not meet specification limits.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:50

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BC06165

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC06165	Aluminum, Dissolved	mg/L	-0.000282	0.010	0.100	0.126	0.123	0.108	0.0850 to 0.115	104	70.0 to 130	2.41	20.0
BC06165	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.261	0.333	0.101	0.0850 to 0.115	174	70.0 to 130	24.2	20.0
BC06165	Antimony, Dissolved	mg/L	0.000252	0.00100	0.100	0.0944	0.0959	0.0972	0.0850 to 0.115	94.4	70.0 to 130	1.58	20.0
BC06165	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0972	0.100	0.100	0.0850 to 0.115	97.2	70.0 to 130	2.84	20.0
BC06165	Arsenic, Dissolved	mg/L	-0.0000604	0.000176	0.100	0.0969	0.0967	0.100	0.0850 to 0.115	96.9	70.0 to 130	0.207	20.0
BC06165	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.0977	0.0996	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.93	20.0
BC06165	Barium, Dissolved	mg/L	-0.0000329	0.00100	0.100	0.134	0.137	0.103	0.0850 to 0.115	99.2	70.0 to 130	2.21	20.0
BC06165	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.129	0.133	0.0989	0.0850 to 0.115	93.8	70.0 to 130	3.05	20.0
BC06165	Beryllium, Dissolved	mg/L	0.0000219	0.000880	0.100	0.0900	0.0881	0.0887	0.0850 to 0.115	90.0	70.0 to 130	2.13	20.0
BC06165	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0948	0.0957	0.100	0.0850 to 0.115	94.8	70.0 to 130	0.945	20.0
BC06165	Boron, Dissolved	mg/L	-0.000302	0.0650	1.00	1.01	1.06	1.00	0.850 to 1.15	97.8	70.0 to 130	4.83	20.0
BC06165	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	103	70.0 to 130	0.948	20.0
BC06165	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.100	0.0958	0.104	0.0850 to 0.115	100	70.0 to 130	4.29	20.0
BC06165	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0984	0.102	0.101	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC06165	Calcium, Dissolved	mg/L	-0.0134	0.152	5.00	7.68	6.76	4.91	4.25 to 5.75	108	70.0 to 130	12.7	20.0
BC06165	Calcium, Total	mg/L	-0.0137	0.152	5.00	7.37	7.31	5.03	4.25 to 5.75	102	70.0 to 130	0.817	20.0
BC06165	Chloride	mg/L	0.0145	1.00	10.0	15.2	15.2	10.3	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC06165	Chromium, Dissolved	mg/L	-0.0000175	0.000440	0.100	0.0984	0.0964	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.05	20.0
BC06165	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.0984	0.100	0.101	0.0850 to 0.115	97.3	70.0 to 130	1.61	20.0
BC06165	Cobalt, Dissolved	mg/L	-0.0000004	0.000147	0.100	0.100	0.0984	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.61	20.0
BC06165	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BC06165	Fluoride	mg/L	-0.00923	0.125	2.50	2.43	2.49	2.62	2.25 to 2.75	97.2	80.0 to 120	2.44	20.0
BC06165	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	0.195	0.195	0.201	0.170 to 0.230	97.5	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Aluminum MS/MSD recovery and precision did not meet specification limits.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:50

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BC06165

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06165	Iron, Total	mg/L	0.000305	0.0176	0.2	0.335	0.341	0.205	0.170 to 0.230	102	70.0 to 130	1.78	20.0
BC06165	Lead, Dissolved	mg/L	0.0000123	0.000147	0.100	0.102	0.0976	0.0980	0.0850 to 0.115	102	70.0 to 130	4.41	20.0
BC06165	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.0980	0.100	0.101	0.0850 to 0.115	97.9	70.0 to 130	2.02	20.0
BC06165	Lithium, Dissolved	mg/L	0.00018	0.0154	0.200	0.199	0.190	0.205	0.170 to 0.230	99.5	70.0 to 130	4.63	20.0
BC06165	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.202	0.205	0.201	0.170 to 0.230	101	70.0 to 130	1.47	20.0
BC06165	Magnesium, Dissolved	mg/L	-0.000732	0.0462	5.00	6.93	6.20	5.26	4.25 to 5.75	106	70.0 to 130	11.1	20.0
BC06165	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	6.92	6.97	5.23	4.25 to 5.75	104	70.0 to 130	0.720	20.0
BC06165	Manganese, Dissolved	mg/L	0.0000135	0.0002	0.100	0.108	0.106	0.105	0.0850 to 0.115	99.1	70.0 to 130	1.87	20.0
BC06165	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.106	0.109	0.103	0.0850 to 0.115	96.3	70.0 to 130	2.79	20.0
BC06165	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00397	0.00397	0.00399	0.00340 to 0.00460	99.2	70.0 to 130	0.00	20.0
BC06165	Molybdenum, Dissolved	mg/L	-0.0000070	0.0002	0.100	0.0982	0.0974	0.106	0.0850 to 0.115	98.2	70.0 to 130	0.818	20.0
BC06165	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0958	0.0954	0.0990	0.0850 to 0.115	95.8	70.0 to 130	0.418	20.0
BC06165	Potassium, Dissolved	mg/L	0.0183	0.367	10.0	12.1	11.6	10.7	8.50 to 11.5	103	70.0 to 130	4.22	20.0
BC06165	Potassium, Total	mg/L	-0.00490	0.367	10.0	11.7	11.8	10.4	8.50 to 11.5	98.5	70.0 to 130	0.851	20.0
BC06165	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.0995	0.0981	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.42	20.0
BC06165	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.0973	0.0985	0.105	0.0850 to 0.115	97.3	70.0 to 130	1.23	20.0
BC06165	Silicon, Dissolved	mg/L	-0.000353	0.0440	1.00	5.80	5.79	1.02	0.850 to 1.15	99.0	70.0 to 130	0.173	20.0
BC06165	Silicon, Total	mg/L	0.00239	0.0440	1.00	6.23	6.22	1.02	0.850 to 1.15	126	70.0 to 130	0.161	20.0
BC06165	Sodium, Dissolved	mg/L	-0.000098	0.0660	5.00	10.7	9.97	5.27	4.25 to 5.75	104	70.0 to 130	7.06	20.0
BC06165	Sodium, Total	mg/L	0.000793	0.0660	5.00	10.8	11.0	5.14	4.25 to 5.75	100	70.0 to 130	1.83	20.0
BC06165	Sulfate	mg/L	0.028	2.0	20.0	30.7	30.8	20.6	18.0 to 22.0	111	80.0 to 120	0.325	20.0
BC06165	Thallium, Dissolved	mg/L	0.0000067	0.000147	0.100	0.103	0.0971	0.0973	0.0850 to 0.115	103	70.0 to 130	5.90	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Aluminum MS/MSD recovery and precision did not meet specification limits.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:50

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BC06165

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec	Prec Limit
				Limit	Spike	MS	MSD			Rec	Limit		
BC06165	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0960	0.0984	0.101	0.0850 to 0.115	96.0	70.0 to 130	2.47	20.0
BC06165	Total Organic Carbon	mg/L	0.350	1.00	10.0	10.3	10.3	10.0		103	80.0 to 120	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Aluminum MS/MSD recovery and precision did not meet specification limits.

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 3/23/22 13:50

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BC06165

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06165	Alkalinity, Total as CaCO3	mg/L					10.0	50.2	45.0 to 55.0			0.00	10.0
BC06165	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.29	0.300	1.96	1.80 to 2.20	100	90.0 to 110	5.83	15.0
BC06165	Solids, Dissolved	mg/L	2.00	25.0			48.7	59.0	40.0 to 60.0			2.92	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Total Aluminum MS/MSD recovery and precision did not meet specification limits.

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/23/22 14:05
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06166

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	4/5/22 07:00	4/7/22 10:08		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	4/5/22 07:00	4/7/22 10:08		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	4/5/22 07:00	4/7/22 10:08		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	4/5/22 07:00	4/7/22 10:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	4/5/22 07:00	4/7/22 10:08		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	4/5/22 07:00	4/7/22 10:08		1	Not Detected	mg/L			
Silicon, Total	4/5/22 07:00	4/7/22 10:08		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	4/5/22 07:00	4/7/22 10:08		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Beryllium, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	3/29/22 14:18	3/30/22 11:52		1.015	0.000215	mg/L	0.000203	0.001015	J
* Cobalt, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	3/29/22 14:18	3/30/22 11:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	3/28/22 15:26	3/28/22 20:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	3/29/22 13:16	3/29/22 13:16		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	3/24/22 14:30	3/29/22 11:47		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 3/23/22 14:05
Customer ID:
Submittal Date: 3/24/22 11:24

Laboratory ID Number: BC06166

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	3/29/22 17:37	3/29/22 17:37		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	3/28/22 11:19	3/28/22 11:19		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	3/28/22 14:34	3/28/22 14:34		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	3/29/22 12:43	3/29/22 12:43		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/23/22 14:05

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06166

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC06166	Aluminum, Total	mg/L	0.000411	0.010	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC06166	Antimony, Total	mg/L	0.000338	0.00100	0.100	0.0989	0.0976	0.100	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC06166	Arsenic, Total	mg/L	-0.0000108	0.000176	0.100	0.101	0.100	0.103	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC06166	Barium, Total	mg/L	0.0000548	0.00100	0.100	0.0955	0.0972	0.0989	0.0850 to 0.115	95.5	70.0 to 130	1.76	20.0
BC06166	Beryllium, Total	mg/L	0.000128	0.000880	0.100	0.0947	0.0941	0.100	0.0850 to 0.115	94.7	70.0 to 130	0.636	20.0
BC06166	Boron, Total	mg/L	-0.000091	0.0650	1.00	1.01	1.02	1.03	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC06166	Cadmium, Total	mg/L	0.0000087	0.000147	0.100	0.0982	0.100	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.82	20.0
BC06166	Calcium, Total	mg/L	-0.0137	0.152	5.00	4.86	4.84	5.03	4.25 to 5.75	97.2	70.0 to 130	0.412	20.0
BC06166	Chloride	mg/L	0.00553	1.00	10.0	10.1	10.2	10.2	9.00 to 11.0	101	80.0 to 120	0.985	20.0
BC06166	Chromium, Total	mg/L	0.0000441	0.000440	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06166	Cobalt, Total	mg/L	0.0000065	0.000147	0.100	0.103	0.104	0.104	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC06166	Fluoride	mg/L	0.0076	0.125	2.50	2.50	2.52	2.64	2.25 to 2.75	100	80.0 to 120	0.797	20.0
BC06166	Iron, Total	mg/L	0.000305	0.0176	0.2	0.198	0.198	0.205	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BC06166	Lead, Total	mg/L	0.0000225	0.000147	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC06166	Lithium, Total	mg/L	0.000078	0.0154	0.200	0.204	0.205	0.201	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BC06166	Magnesium, Total	mg/L	-0.00900	0.0462	5.00	5.18	5.13	5.23	4.25 to 5.75	104	70.0 to 130	0.970	20.0
BC06166	Manganese, Total	mg/L	-0.0000558	0.0002	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC06166	Mercury, Total by CVAA	mg/L	-0.00011	0.000500	0.004	0.00399	0.00395	0.00399	0.00340 to 0.00460	99.8	70.0 to 130	1.01	20.0
BC06166	Molybdenum, Total	mg/L	-0.0000006	0.0002	0.100	0.0983	0.0995	0.0990	0.0850 to 0.115	98.3	70.0 to 130	1.21	20.0
BC06166	Potassium, Total	mg/L	-0.00490	0.367	10.0	10.3	10.4	10.4	8.50 to 11.5	103	70.0 to 130	0.966	20.0
BC06166	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.102	0.105	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC06166	Silicon, Total	mg/L	0.00239	0.0440	1.00	1.00	1.00	1.02	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC06166	Sodium, Total	mg/L	0.000793	0.0660	5.00	5.23	5.21	5.14	4.25 to 5.75	105	70.0 to 130	0.383	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/23/22 14:05

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06166

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC06166	Sulfate	mg/L	0.289	2.0	20.0	21.4	21.3	20.6	18.0 to 22.0	107	80.0 to 120	0.468	20.0
BC06166	Thallium, Total	mg/L	0.0000152	0.000147	0.100	0.0998	0.0999	0.101	0.0850 to 0.115	99.8	70.0 to 130	0.100	20.0
BC06166	Total Organic Carbon	mg/L	0.300	1.00	10.0	10.1	10.1	10.0		101	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 3/23/22 14:05

Customer ID:

Delivery Date: 3/24/22 11:24

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC06166

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC06166	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	1.92	-0.041	1.86	1.80 to 2.20	96.0	90.0 to 110	0.00	15.0
BC06163	Solids, Dissolved	mg/L	0.0000	25.0			135	49.0	40.0 to 60.0			1.47	10.0

Comments:

Definitions

Project Number: WMWGREAP_1355

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.
U	Compound was analyzed, but not detected.



Chain of Custody Groundwater APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrite/Nitrate; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC bottles pH<2. LBM 3/24/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-62HO	03/23/2022	12:25	7	Groundwater		BC06164
MW-55HO	03/23/2022	13:50	7	Groundwater		BC06165
EB-1	03/23/2022	14:05	5	Equipment Blank		BC06166

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Laura Miller</i>	03/24/2022 09:51

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1355	
Cooler Temp	1.0 degrees C	
Thermometer ID	6603-34819-1-1	
pH Strip ID	9772-56581-100-3	



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC bottles pH<2. LBM 3/24/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-63HO	03/23/2022	11:32	7	Groundwater		BC06161
MW-47HO	03/23/2022	13:01	7	Groundwater		BC06162
MW-47HO dup	03/23/2022	13:01	7	Sample Duplicate		BC06163

Relinquished By	Received By	Date/Time
		03/24/2022 09:56

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1355	
	Cooler Temp	0.5 degrees C
	Thermometer ID	5408-27568-2-2
	pH Strip ID	9772-56581-100-3

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC bottles pH<2. LBM 3/24/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-50HO	03/23/2022	08:48	7	Groundwater		BC06156
MW-59HO	03/23/2022	10:10	7	Groundwater		BC06157
MW-61HO	03/23/2022	11:18	7	Groundwater		BC06158
MW-60HO	03/23/2022	12:22	7	Groundwater		BC06159
FB-1	03/23/2022	12:45	5	Field Blank		BC06160

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	03/24/2022 09:54

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1355	
Cooler Temp	0.3 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody
Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Anthony Goggins	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 Sulfide	250 mL	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Sulfide bottles pH>9. LBM 3/24/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-62HO	03/23/2022	12:25	2	Groundwater		BC06175
MW-55HO	03/23/2022	13:50	2	Groundwater		BC06176
EB-1	03/23/2022	14:05	2	Equipment Blank		BC06177

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Dyer</i>	03/24/2022 09:50

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1355	
Cooler Temp	1.0 degrees C	
Thermometer ID	6603-34819-1-1	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	Sulfide	250 mL	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Sulfide bottles pH>9. LBM 3/24/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-63HO	03/23/2022	11:32	2	Groundwater		BC06172
MW-47HO	03/23/2022	13:01	2	Groundwater		BC06173
MW-47HO dup	03/23/2022	13:01	2	Sample Duplicate		BC06174

Relinquished By	Received By	Date/Time
<i>M. Dyer</i>	<i>Laura Kelly</i>	03/24/2022 09:56

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1355	
Cooler Temp	0.5 degrees C	
Thermometer ID	5408-27568-2-2	
pH Strip ID	9772-56581-100-3	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 Sulfide	250 mL	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Rad MS/MSD collected at MW-50HO per TJD Correcting bottle count to 4. Sulfide bottles pH>9. LBM 3/24/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-50HO	03/23/2022	08:48	4	Groundwater		BC06167
MW-59HO	03/23/2022	10:10	2	Groundwater		BC06168
MW-61HO	03/23/2022	11:18	2	Groundwater		BC06169
MW-60HO	03/23/2022	12:22	2	Groundwater		BC06170
FB-1	03/23/2022	12:45	2	Field Blank		BC06171

Relinquished By	Received By	Date/Time
		03/24/2022 09:54

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23342-4-1		
Sample Event	1355		
		Cooler Temp	0.3 degrees C
		Thermometer ID	5408-27568-2-2
		pH Strip ID	9772-56581-100-3

March 31, 2022

Laura Midkiff
Alabama Power
744 Highway 87
GSC 8
Calera, AL 35040

RE: Project: WMWGREAP_1355
Pace Project No.: 20238673

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - New Orleans

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

Sincerely,



Karen Brown
karen.brown@pacelabs.com
(504)469-0333
Project Manager

Enclosures

cc: Renee Jernigan, Alabama Power
Trinity B. Williams, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGREAP_1355

Pace Project No.: 20238673

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20238673001	BC06167 MW-50HO	Water	03/23/22 08:48	03/26/22 04:00
20238673002	BC06168 MW-59HO	Water	03/23/22 10:10	03/26/22 04:00
20238673003	BC06169 MW-61HO	Water	03/23/22 11:18	03/26/22 04:00
20238673004	BC06170 MW-60HO	Water	03/23/22 12:22	03/26/22 04:00
20238673005	BC06171 FB-1	Water	03/23/22 12:45	03/26/22 04:00
20238673006	BC06172 MW-63HO	Water	03/23/22 11:32	03/26/22 04:00
20238673007	BC06173 MW-47HO	Water	03/23/22 13:01	03/26/22 04:00
20238673008	BC06174 MW-47HO DUP	Water	03/23/22 13:01	03/26/22 04:00
20238673009	BC06175 MW-62HO	Water	03/23/22 12:25	03/26/22 04:00
20238673010	BC06176 MW-55HO	Water	03/23/22 13:50	03/26/22 04:00
20238673011	BC06177 EB-1	Water	03/23/22 14:05	03/26/22 04:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1355

Pace Project No.: 20238673

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20238673001	BC06167 MW-50HO	SM 4500-S-2 D	RVJ	1
20238673002	BC06168 MW-59HO	SM 4500-S-2 D	RVJ	1
20238673003	BC06169 MW-61HO	SM 4500-S-2 D	RVJ	1
20238673004	BC06170 MW-60HO	SM 4500-S-2 D	RVJ	1
20238673005	BC06171 FB-1	SM 4500-S-2 D	RVJ	1
20238673006	BC06172 MW-63HO	SM 4500-S-2 D	RVJ	1
20238673007	BC06173 MW-47HO	SM 4500-S-2 D	RVJ	1
20238673008	BC06174 MW-47HO DUP	SM 4500-S-2 D	RVJ	1
20238673009	BC06175 MW-62HO	SM 4500-S-2 D	RVJ	1
20238673010	BC06176 MW-55HO	SM 4500-S-2 D	RVJ	1
20238673011	BC06177 EB-1	SM 4500-S-2 D	RVJ	1

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1355
Pace Project No.: 20238673

Method: SM 4500-S-2 D
Description: 4500S2D Sulfide, Total
Client: Alabama Power
Date: March 31, 2022

General Information:

11 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 251511

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20238671002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1194666)
- Sulfide, Total

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Sample: BC06167 MW-50HO **Lab ID: 20238673001** Collected: 03/23/22 08:48 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:05	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355
Pace Project No.: 20238673

Sample: BC06168 MW-59HO Lab ID: 20238673002 Collected: 03/23/22 10:10 Received: 03/26/22 04:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:34	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Sample: BC06169 MW-61HO **Lab ID: 20238673003** Collected: 03/23/22 11:18 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:35	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Sample: BC06170 MW-60HO **Lab ID: 20238673004** Collected: 03/23/22 12:22 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:35	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Sample: BC06171 FB-1 **Lab ID: 20238673005** Collected: 03/23/22 12:45 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:37	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Sample: BC06172 MW-63HO **Lab ID: 20238673006** Collected: 03/23/22 11:32 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:37	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Sample: BC06173 MW-47HO **Lab ID: 20238673007** Collected: 03/23/22 13:01 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 14:38	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Sample: BC06174 MW-47HO DUP **Lab ID: 20238673008** Collected: 03/23/22 13:01 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 15:21	18496-25-8	

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: BC06175 MW-62HO Lab ID: 20238673009 Collected: 03/23/22 12:25 Received: 03/26/22 04:00 Matrix: Water									
Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 15:24	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Sample: BC06176 MW-55HO **Lab ID: 20238673010** Collected: 03/23/22 13:50 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 15:24	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGREAP_1355

Pace Project No.: 20238673

Sample: BC06177 EB-1 **Lab ID: 20238673011** Collected: 03/23/22 14:05 Received: 03/26/22 04:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total									
Analytical Method: SM 4500-S-2 D									
Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012	1		03/30/22 15:24	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGREAP_1355
Pace Project No.: 20238673

QC Batch: 251511 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20238673001, 20238673002, 20238673003, 20238673004, 20238673005, 20238673006, 20238673007

METHOD BLANK: 1194663 Matrix: Water
Associated Lab Samples: 20238673001, 20238673002, 20238673003, 20238673004, 20238673005, 20238673006, 20238673007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/30/22 13:20	

LABORATORY CONTROL SAMPLE: 1194664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.20	98	90-110	

MATRIX SPIKE SAMPLE: 1194666

Parameter	Units	20238671002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.11	54	75-125	M1

SAMPLE DUPLICATE: 1194665

Parameter	Units	20238671002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGREAP_1355
Pace Project No.: 20238673

QC Batch: 251533 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20238673008, 20238673009, 20238673010, 20238673011

METHOD BLANK: 1194887 Matrix: Water
Associated Lab Samples: 20238673008, 20238673009, 20238673010, 20238673011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	03/30/22 15:14	

LABORATORY CONTROL SAMPLE: 1194888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.19	97	90-110	

MATRIX SPIKE SAMPLE: 1194890

Parameter	Units	20238673008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.18	91	75-125	

SAMPLE DUPLICATE: 1194889

Parameter	Units	20238673008 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGREAP_1355

Pace Project No.: 20238673

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1355

Pace Project No.: 20238673

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20238673001	BC06167 MW-50HO	SM 4500-S-2 D	251511		
20238673002	BC06168 MW-59HO	SM 4500-S-2 D	251511		
20238673003	BC06169 MW-61HO	SM 4500-S-2 D	251511		
20238673004	BC06170 MW-60HO	SM 4500-S-2 D	251511		
20238673005	BC06171 FB-1	SM 4500-S-2 D	251511		
20238673006	BC06172 MW-63HO	SM 4500-S-2 D	251511		
20238673007	BC06173 MW-47HO	SM 4500-S-2 D	251511		
20238673008	BC06174 MW-47HO DUP	SM 4500-S-2 D	251533		
20238673009	BC06175 MW-62HO	SM 4500-S-2 D	251533		
20238673010	BC06176 MW-55HO	SM 4500-S-2 D	251533		
20238673011	BC06177 EB-1	SM 4500-S-2 D	251533		

REPORT OF LABORATORY ANALYSIS

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WO#: 20238673



20238673

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be filled.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Alabama Power Company	Report To:	Laura Midkiff	Attention:	Laura Midkiff
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Brooke Catton & Renee Jernigan	Company Name:	Alabama Power Co.
Email To:	lmidkiff@southernco.com	Purchase Order #:	APC-10755638	Address:	744 Highway 87 GSC Bldg #8 CCR
Phone:	205-664-6197 Fax	Project Name:	Plant Greene County Ash Pond	State/Location:	AL
Requested Due Date:	Normal	Project Number:	WMWGREAP-1385	Regulatory Agency:	
				Pace Project Manager:	Karen Brown
				Pace Profile #:	17210

ITEM #	DESCRIPTION	STATION NAME LOCATION_CODE	SITE NAME FACILITY_ID	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	START DATE	START TIME	FIELD FILTERED	MATRIX CODE	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	DATE	TIME	SAMPLE CONDITIONS
1	BC06167	APCO-GC-AP-MW-50HO	APCO_GreeneCounty_AshPond	GW		3/23/2022	8:48		GW	1	X	EPA 9315			
2	BC06168	APCO-GC-AP-MW-59HO	APCO_GreeneCounty_AshPond	GW		3/23/2022	10:10		GW	1	X	EPA 9320			
3	BC06169	APCO-GC-AP-MW-51HO	APCO_GreeneCounty_AshPond	GW		3/23/2022	11:18		GW	1	X	EPA 9315			
4	BC06170	APCO-GC-AP-MW-60HO	APCO_GreeneCounty_AshPond	GW		3/23/2022	12:22		GW	1	X	EPA 9315			
5	BC06171	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond	GW		3/23/2022	12:45		GW	1	X	EPA 9315			
6															
7															
8															
9															
10															
11															
12															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME
	Laura Midkiff APC GTL	3/24/2022	13:20
	G. H. A. P. 3/24/2022 0400		
	G. H. A. P. 3/24/2022 0400		

SAMPLER NAME AND SIGNATURE	DATE SIGNED:
PRINT Name of SAMPLER:	TJ Daugherty
SIGNATURE of SAMPLER:	

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Alabama Power Company	Report To: Laura Mickliff	Attention: Laura Mickliff
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Brooke Caton & Renee Jernigan	Company Name: Alabama Power Co.
Email To: lbmickliff@southernco.com	Purchase Order #: APC10755638	Address: 744 Highway 87 GSC Bldg #8 CCR
Phone: 205-664-6197 Fax	Project Name: Plant Greene County Ash Pond	Face Project Manager: Karen Brown
Requested Due Date: Normal	Project Number: WWMGREAP_1355	Face Profile #: 17210
		Regulatory Agency: AL
		State / Location: AL

ITEM #	Description	Station Name Location Code	Site Name Facility ID	COLLECTED		Sample Duplicate	Mark Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	PRESERVATIVES		# OF CONTAINERS	Unpreserved	NaOH+ZnAcetate	HNO3	Y/N	EPA 8315	EPA 8320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	
				DATE	TIME						Y/N	Y/N											
1	BC06172 MW-63HO	APCO-GC-AP-MW-63HO	APCO_GreeneCounty_AshPond	3/23/2022	11:32				GW	G	X		1										
2	BC06173 MW-47HO	APCO-GC-AP-MW-47HO	APCO_GreeneCounty_AshPond	3/23/2022	13:01				GW	G	X		1										
3	BC06174 MW-47HO DUP	APCO-GC-AP-MW-47HO	APCO_GreeneCounty_AshPond	3/23/2022	13:01	X			GW	G	X		1										
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Laura Mickliff APC GTL	3/24/2022	13:20	<i>[Signature]</i>			Received on TEMP in C Ice (Y/N) Sealed (Y/N) Custody (Y/N) Cooler (Y/N) Samples (Y/N) Intact (Y/N)
	<i>[Signature]</i>			<i>[Signature]</i>			

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Dallas Centry SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed:	Dallas Centry DATE Signed:
--	-------------------------------

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: lbmidkiff@southernco.com Phone: 205-664-9197 Fax Requested Due Date: Normal	Invoice Information: Attention: Laura Midkiff Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 CCR Face Project Manager: Karen Brown Pace Profile #: 17210
Regulatory Agency: _____ State / Location: AL	

Section B

Required Project Information:

Report To: Laura Midkiff Copy To: Brooke Caton & Renee Jernigan Purchase Order #: APC10755638 Project Name: Plant Greene County Ash Pond Project Number: WMMGREAP_1355	Matrix Spikes/Matrix Spike Duplicate Sample Duplicate Field Filtered Matrix Code Matrix Type (G=GRAB C=COMP) Collected: START DATE TIME EPA 9315 EPA 9320 Total Radium Sum Total Sulfide Residual Chlorine (Y/N)
--	--

Section C

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	Description	Station Name Location Code	Site Name Facility ID	Sample Duplicate	Matrix Spikes/Matrix Spike Duplicate	Field Filtered	Matrix Code	Matrix Type (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Unpreserved	NaOH/ZnAcetate	HNO3	Preservatives	Analytes Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	SAMPLE CONDITIONS								
										DATE	TIME												Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Intact Samples (Y/N)						
1	BC08175	MW-62HO	APCO-GC-AP-MW-62HO	APCO_GreeneCounty_AshPond				GW	G	3/23/2022	12:25	1	X																		
2	BC08176	MW-55HO	APCO-GC-AP-MW-55HO	APCO_GreeneCounty_AshPond				GW	G	3/23/2022	13:50	1	X																		
3	BC08177	EB-1	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond				GW	G	3/23/2022	14:05	1	X																		
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS Laura Midkiff APC GTL G.T. 3/23/2022	RELINQUISHED BY / AFFILIATION Laura Midkiff APC GTL	DATE 3/24/2022	TIME 19:20	ACCEPTED BY / AFFILIATION G.T. 3/23/2022	DATE 3/23/2022	TIME 15:49
--	--	-------------------	---------------	---	-------------------	---------------

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Anthony Goggins SIGNATURE OF SAMPLER: <i>Anthony Goggins</i>	Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Intact Samples (Y/N)
--	--



1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Re

Proje

WO#: 20238673

PM: KHB Due Date: 04/07/22
CLIENT: 20-Alabama

Courier: Pace Courier Hired Courier Fed X UPS DHL USPS Customer Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: Yes No

Thermometer Used: Therm Fisher IR 7
 Therm Fisher IR 10

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC] Temp should be above freezing to 6°C

Date and Initials of person examining contents: 3/26/2022 KMS

Temp must be measured from Temperature blank when present Comments:

Temperature Blank Present??	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	1	
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2	
Chain of Custody Complete:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4	
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8	
Filtered vol. Rec. for Diss. tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10	
All containers received within manufacture's precautionary and/or expiration dates.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11	
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12	
All containers preservation checked found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13	If No, was preservative added? <input type="checkbox"/> Yes <input type="checkbox"/> No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

May 18, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGREAP_1355
Pace Project No.: 30476472

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

(Greensburg, WV) - Revision 1 - This report replaces the 5/2/2022 report. This project was revised on 5/13/22 to take total radium off of MS/ MSD samples per client request.

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

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGREAP_1355
Pace Project No.: 30476472

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGREAP_1355
Pace Project No.: 30476472

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30476472001	BC06167 MW-50HO	Water	03/23/22 08:48	03/30/22 09:25
30476472002	BC06167 MW-50HO MS	Water	03/23/22 08:48	03/30/22 09:25
30476472003	BC06167 MW-50HO MSD	Water	03/23/22 08:48	03/30/22 09:25
30476472004	BC06168 MW-59HO	Water	03/23/22 10:10	03/30/22 09:25
30476472005	BC06169 MW-61HO	Water	03/23/22 11:18	03/30/22 09:25
30476472006	BC06170 MW-60HO	Water	03/23/22 12:22	03/30/22 09:25
30476472007	BC06171 FB-1	Water	03/23/22 12:45	03/30/22 09:25
30476472008	BC06172 MW-63HO	Water	03/23/22 11:32	03/30/22 09:25
30476472009	BC06173 MW-47HO	Water	03/23/22 13:01	03/30/22 09:25
30476472010	BC06174 MW-47HO DUP	Water	03/23/22 13:01	03/30/22 09:25
30476472011	BC06175 MW-62HO	Water	03/23/22 12:25	03/30/22 09:25
30476472012	BC06176 MW-55HO	Water	03/23/22 13:50	03/30/22 09:25
30476472013	BC06177 EB-1	Water	03/23/22 14:05	03/30/22 09:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1355
Pace Project No.: 30476472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30476472001	BC06167 MW-50HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472002	BC06167 MW-50HO MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30476472003	BC06167 MW-50HO MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30476472004	BC06168 MW-59HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472005	BC06169 MW-61HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472006	BC06170 MW-60HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472007	BC06171 FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472008	BC06172 MW-63HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472009	BC06173 MW-47HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472010	BC06174 MW-47HO DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472011	BC06175 MW-62HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472012	BC06176 MW-55HO	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30476472013	BC06177 EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: WMWGREAP_1355

Pace Project No.: 30476472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: WMWGREAP_1355

Pace Project No.: 30476472

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: May 18, 2022

General Information:

13 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1355
Pace Project No.: 30476472

Method: EPA 9320
Description: 9320 Radium 228
Client: Alabama Power
Date: May 18, 2022

General Information:

13 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGREAP_1355

Pace Project No.: 30476472

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: May 18, 2022

General Information:

11 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06167 MW-50HO **Lab ID: 30476472001** Collected: 03/23/22 08:48 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.246U ± 0.169 (0.250) C:97% T:NA	pCi/L	04/27/22 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.662U ± 0.400 (0.727) C:70% T:80%	pCi/L	04/29/22 11:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.908U ± 0.569 (0.977)	pCi/L	04/30/22 20:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06167 MW-50HO MS **Lab ID: 30476472002** Collected: 03/23/22 08:48 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	94.68 %REC ± NA (NA) C:NA T:NA	pCi/L	04/27/22 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	94.76 %REC ± NA (NA) C:NA T:NA	pCi/L	04/29/22 11:14	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06167 MW-50HO MSD **Lab ID: 30476472003** Collected: 03/23/22 08:48 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	99.43 %REC 4.89RPD ± NA (NA) C:NA T:NA	pCi/L	04/27/22 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	102.61 %REC 7.95 RPD ± NA (NA) C:NA T:NA	pCi/L	04/29/22 11:14	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06168 MW-59HO **Lab ID: 30476472004** Collected: 03/23/22 10:10 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.442 ± 0.226 (0.285) C:98% T:NA	pCi/L	04/27/22 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.577U ± 0.394 (0.756) C:77% T:85%	pCi/L	04/18/22 15:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.02U ± 0.620 (1.04)	pCi/L	04/27/22 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06169 MW-61HO **Lab ID: 30476472005** Collected: 03/23/22 11:18 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.116U ± 0.136 (0.269) C:100% T:NA	pCi/L	04/27/22 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0852U ± 0.316 (0.715) C:78% T:90%	pCi/L	04/18/22 15:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.201U ± 0.452 (0.984)	pCi/L	04/27/22 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06170 MW-60HO **Lab ID: 30476472006** Collected: 03/23/22 12:22 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.218U ± 0.188 (0.349) C:101% T:NA	pCi/L	04/27/22 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.714U ± 0.722 (1.49) C:70% T:46%	pCi/L	04/18/22 15:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.932U ± 0.910 (1.84)	pCi/L	04/27/22 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06171 FB-1 **Lab ID: 30476472007** Collected: 03/23/22 12:45 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0793U ± 0.130 (0.289) C:101% T:NA	pCi/L	04/27/22 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.444U ± 0.379 (0.761) C:74% T:86%	pCi/L	04/18/22 15:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.523U ± 0.509 (1.05)	pCi/L	04/27/22 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06172 MW-63HO **Lab ID: 30476472008** Collected: 03/23/22 11:32 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0122U ± 0.103 (0.283) C:90% T:NA	pCi/L	04/27/22 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.195U ± 0.375 (0.823) C:75% T:82%	pCi/L	04/18/22 15:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.207U ± 0.478 (1.11)	pCi/L	04/27/22 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06173 MW-47HO **Lab ID: 30476472009** Collected: 03/23/22 13:01 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0729U ± 0.0665 (0.288) C:100% T:NA	pCi/L	04/27/22 09:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.214U ± 0.345 (0.749) C:73% T:86%	pCi/L	04/18/22 15:59	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.214U ± 0.412 (1.04)	pCi/L	04/27/22 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06174 MW-47HO DUP **Lab ID: 30476472010** Collected: 03/23/22 13:01 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0727U ± 0.114 (0.247) C:96% T:NA	pCi/L	04/27/22 09:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.234U ± 0.396 (0.863) C:73% T:79%	pCi/L	04/18/22 16:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.307U ± 0.510 (1.11)	pCi/L	04/27/22 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06175 MW-62HO **Lab ID: 30476472011** Collected: 03/23/22 12:25 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.260U ± 0.182 (0.291) C:100% T:NA	pCi/L	04/27/22 09:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.569U ± 0.388 (0.746) C:74% T:86%	pCi/L	04/29/22 11:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.829U ± 0.570 (1.04)	pCi/L	04/30/22 20:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06176 MW-55HO **Lab ID: 30476472012** Collected: 03/23/22 13:50 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.271 ± 0.178 (0.267) C:103% T:NA	pCi/L	04/27/22 09:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.477U ± 0.396 (0.790) C:72% T:85%	pCi/L	04/29/22 11:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.748U ± 0.574 (1.06)	pCi/L	04/30/22 20:26	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

Sample: BC06177 EB-1 **Lab ID: 30476472013** Collected: 03/23/22 14:05 Received: 03/30/22 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0968U ± 0.140 (0.300) C:101% T:NA	pCi/L	04/27/22 09:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.609U ± 0.428 (0.807) C:58% T:81%	pCi/L	04/29/22 11:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.706U ± 0.568 (1.11)	pCi/L	04/30/22 20:26	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1355
Pace Project No.: 30476472

QC Batch:	494693	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30476472001, 30476472002, 30476472003, 30476472004, 30476472005, 30476472006, 30476472007, 30476472008, 30476472009, 30476472010, 30476472011, 30476472012, 30476472013

METHOD BLANK:	2393435	Matrix:	Water
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Associated Lab Samples: 30476472001, 30476472002, 30476472003, 30476472004, 30476472005, 30476472006, 30476472007, 30476472008, 30476472009, 30476472010, 30476472011, 30476472012, 30476472013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0309 ± 0.0566 (0.128) C:92% T:NA	pCi/L	04/27/22 09:30	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

QC Batch: 497369

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30476472001, 30476472002, 30476472003, 30476472011, 30476472012, 30476472013

METHOD BLANK: 2407526

Matrix: Water

Associated Lab Samples: 30476472001, 30476472002, 30476472003, 30476472011, 30476472012, 30476472013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0537 ± 0.301 (0.691) C:76% T:81%	pCi/L	04/29/22 11:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP_1355

Pace Project No.: 30476472

QC Batch: 494964

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30476472004, 30476472005, 30476472006, 30476472007, 30476472008, 30476472009, 30476472010

METHOD BLANK: 2394282

Matrix: Water

Associated Lab Samples: 30476472004, 30476472005, 30476472006, 30476472007, 30476472008, 30476472009, 30476472010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.432 ± 0.355 (0.710) C:74% T:87%	pCi/L	04/18/22 12:55	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: WMWGREAP_1355
Pace Project No.: 30476472

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP_1355

Pace Project No.: 30476472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30476472001	BC06167 MW-50HO	EPA 9315	494693		
30476472002	BC06167 MW-50HO MS	EPA 9315	494693		
30476472003	BC06167 MW-50HO MSD	EPA 9315	494693		
30476472004	BC06168 MW-59HO	EPA 9315	494693		
30476472005	BC06169 MW-61HO	EPA 9315	494693		
30476472006	BC06170 MW-60HO	EPA 9315	494693		
30476472007	BC06171 FB-1	EPA 9315	494693		
30476472008	BC06172 MW-63HO	EPA 9315	494693		
30476472009	BC06173 MW-47HO	EPA 9315	494693		
30476472010	BC06174 MW-47HO DUP	EPA 9315	494693		
30476472011	BC06175 MW-62HO	EPA 9315	494693		
30476472012	BC06176 MW-55HO	EPA 9315	494693		
30476472013	BC06177 EB-1	EPA 9315	494693		
30476472001	BC06167 MW-50HO	EPA 9320	497369		
30476472002	BC06167 MW-50HO MS	EPA 9320	497369		
30476472003	BC06167 MW-50HO MSD	EPA 9320	497369		
30476472004	BC06168 MW-59HO	EPA 9320	494964		
30476472005	BC06169 MW-61HO	EPA 9320	494964		
30476472006	BC06170 MW-60HO	EPA 9320	494964		
30476472007	BC06171 FB-1	EPA 9320	494964		
30476472008	BC06172 MW-63HO	EPA 9320	494964		
30476472009	BC06173 MW-47HO	EPA 9320	494964		
30476472010	BC06174 MW-47HO DUP	EPA 9320	494964		
30476472011	BC06175 MW-62HO	EPA 9320	497369		
30476472012	BC06176 MW-55HO	EPA 9320	497369		
30476472013	BC06177 EB-1	EPA 9320	497369		
30476472001	BC06167 MW-50HO	Total Radium Calculation	501148		
30476472004	BC06168 MW-59HO	Total Radium Calculation	500402		
30476472005	BC06169 MW-61HO	Total Radium Calculation	500402		
30476472006	BC06170 MW-60HO	Total Radium Calculation	500402		
30476472007	BC06171 FB-1	Total Radium Calculation	500402		
30476472008	BC06172 MW-63HO	Total Radium Calculation	500402		
30476472009	BC06173 MW-47HO	Total Radium Calculation	500402		
30476472010	BC06174 MW-47HO DUP	Total Radium Calculation	500402		
30476472011	BC06175 MW-62HO	Total Radium Calculation	501148		
30476472012	BC06176 MW-55HO	Total Radium Calculation	501148		
30476472013	BC06177 EB-1	Total Radium Calculation	501148		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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WO#: 30476472

CI The



30476472

Document
to be completed accurately.

Section B
Required Project Information:

Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkiff@southernco.com
 Phone: 205-664-6197 | Fax:
 Requested Due Date: Normal

Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Purchase Order #: APC10755638
 Project Name: Plant Greene County Ash Pond
 Project Number: WMMWGREP_1355
 Pace Quote: CCR
 Pace Project Manager: Skylar Richmond
 Pace Profile #: 13805

Regulatory Agency:
 State / Location: AL

ITEM #	DESCRIPTION	STATION NAME LOCATION_CODE	SITE NAME FACILITY_ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	FIELD FILTERED	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	SAMPLE DUPLICATE	COLLECTED	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP IN C	RECEIVED ON	ICE (Y/N)	CUSTODY (Y/N)	SEALED (Y/N)	COOLER (Y/N)	SAMPLES (Y/N)	INTERACT (Y/N)					
																													DATE	TIME	DATE	TIME	
1	MW-50HO	APCO-GC-AP-MW-50HO	APCO_GreeneCounty_AshPond	GW	G	X			START	3		X	3/23/2022	8:48	Laura Midkiff	3/30/2022	9:30	Laura Midkiff	3/30/2022	9:30													
2	MW-59HO	APCO-GC-AP-MW-59HO	APCO_GreeneCounty_AshPond	GW	G					1		X	3/23/2022	10:10																			
3	MW-61HO	APCO-GC-AP-MW-61HO	APCO_GreeneCounty_AshPond	GW	G					1		X	3/23/2022	11:18																			
4	MW-60HO	APCO-GC-AP-MW-60HO	APCO_GreeneCounty_AshPond	GW	G					1		X	3/23/2022	12:22																			
5	FB-1	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond	GW	G					1		X	3/23/2022	12:45																			
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Laura Midkiff / APC-GTL

DATE: 3/25/2022

TIME: 9:30

ACCEPTED BY / AFFILIATION: [Signature]

DATE: 3/30/2022

TIME: 9:35

SAMPLER NAME AND SIGNATURE: [Signature]

PRINT Name of SAMPLER: T.J. Daugherty

SIGNATURE of SAMPLER: [Signature]

DATE Signed: [Signature]

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

WO#: 30476472

PM: SCR Due Date: 04/20/22

CLIENT: ALABAMA PWR

Section A

Required Client Information:

Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkiff@southernco.com
 Phone: 205-664-6197 Fax
 Requested Due Date: Normal

Section B

Required Project Information:

Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC10755638
 Project Name: Plant Greene County Ash Pond
 Project Number: WMWGREAP_1355

Section C

Invoice Information:

Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Skyler Richmond
 Pace Profile #: 13805
 State / Location: AL

ITEM #	Description	Station Name Location Code	Site Name Facility ID	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	Matrix Spike/Matrix Spike Duplicate	Field Filtered	Matrix Code	# OF CONTAINERS	Preservatives	Analyses Test Y/N	Requested Analysis Filtered (Y/N)	DATE		SAMPLE CONDITIONS
				START DATE	TIME									DATE	TIME	
1	BC06172	APCO-GC-AP-MW-63HO	APCO_GreeneCounty_AshPond	3/23/2022	11:32	GW G				1		X	X	X		008
2	BC06173	APCO-GC-AP-MW-47HO	APCO_GreeneCounty_AshPond	3/23/2022	13:01	GW G				1		X	X	X		CR9
3	BC06174	APCO-GC-AP-MW-47HO	APCO_GreeneCounty_AshPond	3/23/2022	13:01	GW G	X			1		X	X	X		610
4																
5																
6																
7																
8																
9																
10																
11																
12																

ACCEPTED BY / AFFILIATION: *Laura Midkiff*
 DATE: 3-23-22
 TIME: 11:35

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Laura Midkiff/ APC GTL DATE: 3/25/2022 TIME: 9:30

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: _____

DATE Signed: _____

Received on: _____
 Ice (Y/N): _____
 Sealed Custody (Y/N): _____
 Cooler (Y/N): _____
 Samples Intact (Y/N): _____

WO#: 30476472

CHAIN-OF-CUSTODY / Analytical Request Doc

PM: SCR Due Date: 04/20/22
CLIENT: ALABAMA PWR

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Alabama Power Company	Report To: Laura Midkiff	Company Name: Alabama Power Co.	Attention: Laura Midkiff	Regulatory Agency: AL	
Address: 744 Highway 87 GSC Bldg #8	Copy To: Brooke Caton & Renee Jernigan	Address: 744 Highway 87 GSC Bldg #8	Company Address: 744 Highway 87 GSC Bldg #8	State / Location:	
City: Calera, AL 35040			Page Quote: CCR		
Email To: lbmidkiff@southernco.com	Purchase Order #: APC10755638	Project Name: Plant Greene County Ash Pond	Pace Project Manager: Skyler Richmond		
Phone: 205-664-6197 Fax:	Project Number: WMWGREAP_1355		Race Profile #: 13805		
Requested Due Date: Normal					

ITEM #	Description	Station Name Location Code	Site Name Facility ID	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	Matrix Spike/Matrix Spike Duplicate	Sample Duplicate	# OF CONTAINERS	Preservatives	Analyses Test	EPA 9316	EPA 9320	Total Radium Sum	Total Sulfide	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)	ADDITIONAL COMMENTS	
				START DATE	TIME													RELINQUISHED BY / AFFILIATION	DATE
1	BC06175	APCO-GC-AP-MW-62HQ	APCO_GreeneCounty_AshPond	3/23/2022	12:25	GW G			1	Unpreserved	X	X	X	X					
2	BC06176	APCO-GC-AP-MW-59HQ	APCO_GreeneCounty_AshPond	3/23/2022	13:50	GW G			1	NaOH+ZnAcetate	X	X	X	X					
3	BC06177	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond	3/23/2022	14:05	GW G			1	HNO3	X	X	X	X					
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Signature: <i>Laura Midkiff</i>	DATE: 3-30-22	TIME: 9:25
Signature: _____	DATE: _____	TIME: _____
Signature: _____	DATE: _____	TIME: _____
Signature: _____	DATE: _____	TIME: _____
Signature: _____	DATE: _____	TIME: _____
Signature: _____	DATE: _____	TIME: _____
Signature: _____	DATE: _____	TIME: _____
Signature: _____	DATE: _____	TIME: _____
Signature: _____	DATE: _____	TIME: _____
Signature: _____	DATE: _____	TIME: _____
Signature: _____	DATE: _____	TIME: _____

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Anthony Goggins
SIGNATURE of SAMPLER: _____ DATE Signed: _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5701 6584 7592

Label AF
LIMS Login VPINC

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and Initials of person examining contents:	
	Yes	No	N/A		
Chain of Custody Present:	<input checked="" type="checkbox"/>			1022811	02/01/22 AF
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>				
Chain of Custody Relinquished:		<input checked="" type="checkbox"/>			
Sampler Name & Signature on COC:		<input checked="" type="checkbox"/>			
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>				
Short Hold Time Analysis (<72hr remaining):		<input checked="" type="checkbox"/>			
Rush Turn Around Time Requested:		<input checked="" type="checkbox"/>			
Sufficient Volume:	<input checked="" type="checkbox"/>				
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>				
Containers Intact:	<input checked="" type="checkbox"/>				
Orthophosphate field filtered			<input checked="" type="checkbox"/>		
Hex Cr Aqueous sample field filtered			<input checked="" type="checkbox"/>		
Organic Samples checked for dechlorination:			<input checked="" type="checkbox"/>		
Filtered volume received for Dissolved tests			<input checked="" type="checkbox"/>		
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	<input checked="" type="checkbox"/>				pH<2
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>			Initial when completed: <u>AF</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>		
Trip Blank Present:		<input checked="" type="checkbox"/>			
Trip Blank Custody Seals Present			<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>			Initial when completed: <u>AF</u>	Date: <u>2/1/22</u> Survey Meter SN: <u>1523</u>

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____ Contacted By: _____
Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

PM: SCR Due Date: 04/20/22
CLIENT: ALABAMA POWER

MO#: 30476472



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: VAL
Date: 4/22/2022
Worklist: 66133
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2407526	
MB concentration:	0.054	
M/B 2 Sigma CSU:	0.301	
MB MDC:	0.691	
MB Numerical Performance Indicator:	0.35	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS66133	LCSD66133
Count Date:	4/29/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.933	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.820	
Target Conc. (pCi/L, g, F):	4.384	
Uncertainty (Calculated):	0.215	
Result (pCi/L, g, F):	2.842	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.720	
Numerical Performance Indicator:	-4.02	
Percent Recovery:	64.83%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/23/2022	3/28/2022	
Sample I.D.:	30476472001	30480057012	
Sample MS I.D.:	30476472002	30480057013	
Sample MSD I.D.:	30476472003	30480057014	
Spike I.D.:	22-016	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.376	36.376	
Spike Volume Used in MS (mL):	0.20	0.20	
Spike Volume Used in MSD (mL):	0.20	0.20	
MS Aliquot (L, g, F):	0.819	0.799	
MS Target Conc. (pCi/L, g, F):	8.878	9.105	
MSD Aliquot (L, g, F):	0.801	0.798	
MSD Target Conc. (pCi/L, g, F):	9.083	9.122	
MS Spike Uncertainty (calculated):	0.435	0.446	
MSD Spike Uncertainty (calculated):	0.445	0.447	
Sample Result:	0.662	0.539	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.400	0.357	
Sample Matrix Spike Result:	9.075	8.858	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.845	1.779	
Sample Matrix Spike Duplicate Result:	9.982	8.872	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.995	1.797	
MS Numerical Performance Indicator:	-0.470	-0.824	
MSD Numerical Performance Indicator:	0.223	-0.820	
MS Percent Recovery:	94.76%	91.37%	
MSD Percent Recovery:	102.61%	91.35%	
MS Status vs Numerical Indicator:	Pass	Pass	
MSD Status vs Numerical Indicator:	Pass	Pass	
MS Status vs Recovery:	Pass	Pass	
MSD Status vs Recovery:	Pass	Pass	
MS/MSD Upper % Recovery Limits:	135%	135%	
MS/MSD Lower % Recovery Limits:	60%	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:	30476472001	30480057012
Sample MS I.D.:	30476472002	30480057013
Sample MSD I.D.:	30476472003	30480057014
Sample Matrix Spike Result:	9.075	8.858
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.845	1.779
Sample Matrix Spike Duplicate Result:	9.982	8.872
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.995	1.797
Duplicate Numerical Performance Indicator:	-0.654	-0.011
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	7.95%	0.02%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: JC2
Date: 4/4/2022
Worklist: 65910
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2393435
MB concentration:	0.031
M/B Counting Uncertainty:	0.056
MB MDC:	0.128
MB Numerical Performance Indicator:	1.07
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65910	LCSD65910
Count Date:	4/27/2022	4/27/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.028	24.028
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.509	0.506
Target Conc. (pCi/L, g, F):	4.719	4.745
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.433	4.918
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.495	0.477
Numerical Performance Indicator:	2.81	0.71
Percent Recovery:	115.14%	103.66%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS65910
Duplicate Sample I.D.:	LCSD65910
Sample Result (pCi/L, g, F):	5.433
Sample Result Counting Uncertainty (pCi/L, g, F):	0.495
Sample Duplicate Result (pCi/L, g, F):	4.918
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.477
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.467
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.49%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/23/2022		
Sample I.D.:	30476472001		
Sample MS I.D.:	30476472002		
Sample MSD I.D.:	30476472003		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.029		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.251		
MS Target Conc. (pCi/L, g, F):	19.162		
MSD Aliquot (L, g, F):	0.250		
MSD Target Conc. (pCi/L, g, F):	19.230		
MS Spike Uncertainty (calculated):	0.230		
MSD Spike Uncertainty (calculated):	0.231		
Sample Result:	0.246		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.165		
Sample Matrix Spike Result:	18.388		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.252		
Sample Matrix Spike Duplicate Result:	19.365		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.318		
MS Numerical Performance Indicator:	-1.558		
MSD Numerical Performance Indicator:	-0.160		
MS Percent Recovery:	94.68%		
MSD Percent Recovery:	99.43%		
MS Status vs Numerical Indicator:	N/A		
MSD Status vs Numerical Indicator:	N/A		
MS Status vs Recovery:	Pass		
MSD Status vs Recovery:	Pass		
MS/MSD Upper % Recovery Limits:	125%		
MS/MSD Lower % Recovery Limits:	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30476472001
Sample MS I.D.:	30476472002
Sample MSD I.D.:	30476472003
Sample Matrix Spike Result:	18.388
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.252
Sample Matrix Spike Duplicate Result:	19.365
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.318
Duplicate Numerical Performance Indicator:	-1.053
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	4.89%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

uam4/21/22

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: VAL
Date: 4/13/2022
Worklist: 65978
Matrix: WVI

Method Blank Assessment	
MB Sample ID	2394282
MB concentration:	0.432
MB 2 Sigma CSU:	0.355
MB MDC:	0.710
MB Numerical Performance Indicator:	2.38
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS65978	LCS065978
Count Date:	4/18/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	36.063	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.807	
Target Conc. (pCi/L, g, F):	4.468	
Uncertainty (Calculated):	0.219	
Result (pCi/L, g, F):	5.259	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.189	
Numerical Performance Indicator:	1.28	
Percent Recovery:	117.70%	
Status vs Numerical Indicator:	N/A	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Null/19/22

OK

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/23/2022	3/23/2022
Sample I.D.:	30476468001	30476470001
Sample MS I.D.:	30476468002	30476470002
Sample MSD I.D.:	30476468003	30476470003
Spike I.D.:	22-016	22-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	36.376	36.376
Spike Volume Used in MS (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.808	0.817
MS Target Conc. (pCi/L, g, F):	9.001	8.908
MSD Aliquot (L, g, F):	0.812	0.821
MSD Target Conc. (pCi/L, g, F):	8.962	8.867
MS Spike Uncertainty (calculated):	0.441	0.437
MSD Spike Uncertainty (calculated):	0.439	0.434
Sample Result:	0.565	0.439
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.325	0.327
Sample Matrix Spike Result:	9.021	9.068
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.800	1.822
Sample Matrix Spike Duplicate Result:	9.401	8.596
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.877	1.753
MS Numerical Performance Indicator:	-0.568	-0.288
MSD Numerical Performance Indicator:	-0.127	-0.758
MS Percent Recovery:	93.94%	98.87%
MSD Percent Recovery:	98.58%	92.00%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:	30476468001	30476470001
Sample MS I.D.:	30476468002	30476470002
Sample MSD I.D.:	30476468003	30476470003
Spike I.D.:	22-016	22-016
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	9.021	9.068
Sample Matrix Spike Duplicate Result:	9.401	8.596
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.877	1.753
Duplicate Numerical Performance Indicator:	-0.286	0.366
Duplicate on the Percent Recoveries MS/MSD Duplicate RPD:	4.82%	5.16%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

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

Field Case Narrative



Greene County Ash Pond

2022 Additional Request (MW-13)

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

Field quality control procedures were performed as follows:

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

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

Analytical Report



Sample Group : WMWGREAP_1366

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

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

Attention : Dustin Brooks & Greg Dyer

Released By : Renee Jernigan
rgarner@southernco.com
(205) 664-6247

June 01, 2022


Dear Dustin Brooks,


Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Renee Jernigan**  Digitally signed by Renee Jernigan
Date: 2022.06.01 10:14:57 -05'00'

Supervision: **T Durant Maske**  Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, c=US, o=United States, ou=United States, email=t.durmaske@scgulfstream.com
Reason: I am approving this document
Location:
Date: 2022-06-01 10:52-05:00



REPORT OF LABORATORY ANALYSIS

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



Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP_1366

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09645	727045	WMWGREAP_1366
BC09646	727045	WMWGREAP_1366
BC09647	727045	WMWGREAP_1366
BC09648	727045	WMWGREAP_1366

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 5/17/22 11:45
Customer ID:
Submittal Date: 5/19/22 06:50

Laboratory ID Number: BC09645

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Selenium, Total	5/20/22 09:18	5/20/22 14:32		1.015	0.0452	mg/L	0.000508	0.001015	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/17/22 11:43	5/17/22 11:43			397.02	uS/cm			FA
pH	5/17/22 11:43	5/17/22 11:43			6.20	SU			FA
Temperature	5/17/22 11:43	5/17/22 11:43			21.06	C			FA
Turbidity	5/17/22 11:43	5/17/22 11:43			4.72	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 5/17/22 11:45

Customer ID:

Delivery Date: 5/19/22 06:50

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BC09645

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09648	Selenium, Total	mg/L	0.0000307	0.00100	0.100	0.101	0.100	0.0999	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond - MW-13 Dup

Location Code: WMWGREAP

Collected: 5/17/22 11:45

Customer ID:

Submittal Date: 5/19/22 06:50

Laboratory ID Number: BC09646

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Selenium, Total	5/20/22 09:18	5/20/22 14:36		1.015	0.0457	mg/L	0.000508	0.001015	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/17/22 11:43	5/17/22 11:43			397.02	uS/cm			FA
pH	5/17/22 11:43	5/17/22 11:43			6.20	SU			FA
Temperature	5/17/22 11:43	5/17/22 11:43			21.06	C			FA
Turbidity	5/17/22 11:43	5/17/22 11:43			4.72	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAP

Sample Date: 5/17/22 11:45

Customer ID:

Delivery Date: 5/19/22 06:50

Description: Greene County Ash Pond - MW-13 Dup

Laboratory ID Number: BC09646

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09648	Selenium, Total	mg/L	0.0000307	0.00100	0.100	0.101	0.100	0.0999	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB

Collected: 5/17/22 11:50

Customer ID:

Submittal Date: 5/19/22 06:50

Laboratory ID Number: BC09647

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<i>Analytical Method: EPA 200.8</i>		<i>Analyst: DLJ</i>			<i>Preparation Method: EPA 1638</i>				
* Selenium, Total	5/20/22 09:18	5/20/22 14:39		1.015	Not Detected	mg/L	0.000508	0.001015	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPFB

Sample Date: 5/17/22 11:50

Customer ID:

Delivery Date: 5/19/22 06:50

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BC09647

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09648	Selenium, Total	mg/L	0.0000307	0.00100	0.100	0.101	0.100	0.0999	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

Comments:

Certificate Of Analysis

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB

Collected: 5/17/22 14:30

Customer ID:

Submittal Date: 5/19/22 06:50

Laboratory ID Number: BC09648

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<i>Analytical Method: EPA 200.8</i>		<i>Analyst: DLJ</i>			<i>Preparation Method: EPA 1638</i>				
* Selenium, Total	5/20/22 09:18	5/20/22 14:43		1.015	Not Detected	mg/L	0.000508	0.001015	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGREAPEB

Sample Date: 5/17/22 14:30

Customer ID:

Delivery Date: 5/19/22 06:50

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BC09648

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09648	Selenium, Total	mg/L	0.0000307	0.00100	0.100	0.101	0.100	0.0999	0.0850 to 0.115	101	70.0 to 130	0.995	20.0

Comments:

Definitions

Project Number: WMWGREAP_1366

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
U	Compound was analyzed, but not detected.



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Anthony Goggins	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Relinquish to Shipping Lab secure room @0855 051822 AWG
 Total Selenium Analysis Only 05182022 RJ

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-13	05/17/2022	11:45	1	Groundwater		BC09645
MW-13 DUP	05/17/2022	11:45	1	Sample Duplicate		BC09646
FB-1	05/17/2022	11:50	1	Field Blank		BC09647
EB-1	05/17/2022	14:30	1	Equipment Blank		BC09648

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	Renee Jernigan Digitally signed by Renee Jernigan Date: 2022.05.18 14:30:50 -05'00'	05/18/2022 14:31

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1366	
Cooler Temp	NA	
Thermometer ID	NA	
pH Strip ID	9772-56585-100-7	

Appendix D



**Appendix D. Horizontal Groundwater Flow Velocity Calculations
Plant Greene County Ash Pond**

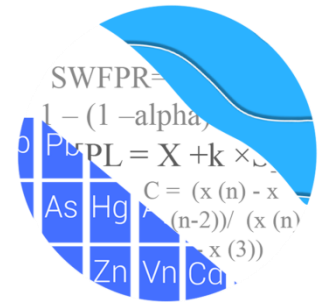
2022 1st Semi-Annual Monitoring Event								
Date of Measurement	MW-25	MW-18	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	K	n	(ft/d)	(ft/yr)
3/22/2022	91.18	80.46	1815.0	0.006	51.93	0.25	1.23	447.81

Date of Measurement	MW-6	MW-7	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	K	n	(ft/d)	(ft/yr)
3/22/2022	90.84	86.65	1230.0	0.003	51.93	0.25	0.71	258.27

Notes:
 ft = feet
 ft/d = feet/day
 ft/ft = feet per foot
 ft/yr = feet per year

Appendix E

GROUNDWATER STATS CONSULTING



June 13, 2022

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Greene County Ash Pond
1st Semi-Annual Event - April 2022

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the April 2022 1st semi-annual sample event for Alabama Power Company's Plant Greene County Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at this site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-26, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30
- **Downgradient wells:** GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33

- **Delineation wells:** GC-AP-PZ-4, GC-AP-MW-34HA, GC-AP-MW-35H, GC-AP-MW-36H, GC-AP-MW-37H, GC-AP-MW-38H, GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, GC-AP-MW-42H, GC-AP-MW-43H, GC-AP-MW-44H, GC-AP-MW-45H, GC-AP-MW-46HO, GC-AP-MW-47HO, GC-AP-MW-48H, GC-AP-MW-49H, GC-AP-MW-50HO, GC-AP-MW-52HO, GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-55HO, GC-AP-MW-57H, GC-AP-MW-59HO, GC-AP-MW-60HO, GC-AP-MW-61HO, GC-AP-MW-62HO, GC-AP-MW-63HO, and GC-AP-MW-64HO

Note that delineation wells do not require statistics; therefore, data are plotted only on time series and box plots. Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, Ph.D. Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The CCR program consists of the following constituents:

Appendix III (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Appendix IV (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). A substitution of the most recent reporting limit is used for non-detect data. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility;

and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples: 126
- # Constituents: 7
- # Downgradient wells: 22

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, interwell prediction limits were utilized in the analysis of this site.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false-positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half of the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summary

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event. Data from upgradient wells are periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate trends, as well as for outliers over the entire record. Interwell prediction limits are used to evaluate boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Proposed background data at upgradient wells were originally screened for outliers and trends in May 2019 for the constituents listed above. Both Tukey's Test and visual screening were used to identify potential outliers. When identified, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. Potential outliers that were identified by Tukey's test but were not greatly different from the rest of the data were not flagged. Also, outliers that are not identified as important by Tukey's test may be identified visually and flagged in the database for construction of more conservative (lower) statistical limits.

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data from upgradient wells for parameters utilizing interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, deselection of the earlier portion of data may be required prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. Several statistically significant trends were noted in upgradient

wells, and the results were submitted with the September 2019 background update. These trends required no adjustments, however, because the period of record was short and/or the magnitudes of the trends were low relative to the average concentrations in background.

One exception was upgradient well GC-AP-MW-24 which had statistically significantly increasing trends for calcium, sulfate, and TDS. However, the more recent reported observations for calcium and TDS were similar to those observed in upgradient well GC-AP-MW-23; therefore, no adjustments were required for these constituents. Additionally, no adjustment was required for sulfate since the statistical limit resulted in a nonparametric prediction limit which is constructed based on the highest report concentration among the upgradient wells. All data at upgradient wells are continually monitored, as mentioned earlier, and will be adjusted in future analyses as necessary. A summary of any adjusted records will accompany the report.

As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of previously flagged values follows this letter.

Evaluation of Appendix III Parameters – April 2022

Outlier Screening

Prior to performing prediction limits, background (upgradient) well data for Appendix III constituents were re-assessed for potential outliers and trends during this analysis. No new values were flagged and no adjustments were required to account for trending data. Values in background which have been previously flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for all Appendix III parameters (Figure D). Interwell prediction limits pool upgradient well data through April 2022 to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance

is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. When no resamples are collected, any initial exceedances are considered SSIs. A summary of the prediction limits results may be found in the Prediction Limit Summary tables following this letter. Several exceedances for interwell prediction limits were identified.

Trend Tests – Prediction Limit Exceedances

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of natural variability in groundwater which may be unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-25
- Calcium: GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17 and GC-AP-MW-24 (upgradient)
- Chloride: GC-AP-MW-9
- Fluoride: GC-AP-MW-14, GC-AP-MW-16, and GC-AP-MW-18
- Sulfate: GC-AP-MW-24, GC-AP-MW-27, GC-AP-MW-28 (all upgradient), GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, and GC-AP-MW-14
- TDS: GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-24 (upgradient), and GC-AP-MW-25

Decreasing:

- Boron: GC-AP-MW-6 and GC-AP-MW-18
- Calcium: GC-AP-MW-23, GC-AP-MW-28, GC-AP-MW-29 (all upgradient), and GC-AP-MW-1

- Chloride: GC-AP-MW-5, GC-AP-MW-14, and GC-AP-MW-23 (upgradient)
- Sulfate: GC-AP-MW-23 (upgradient) and GC-AP-MW-15
- TDS: GC-AP-MW-23 and GC-AP-MW-29 (both upgradient)

Evaluation of Appendix IV Parameters – April 2022

Data from all upgradient wells for Appendix IV parameters were reassessed for outliers during the previous analysis. No changes to previously flagged outliers were made. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) were updated during the 2021 2nd semi-annual statistical analysis. The GWPS will be updated again during the 2023 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Interwell Upper Tolerance Limits

First, background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through August 2021 (Figure F). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed.

Groundwater Protection Standards

These background limits are then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two is used as the GWPS (Figure G) in the confidence interval comparisons described below.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through April 2022 for each of the Appendix IV parameters (Figure H). These intervals were either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest

and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. Note that during this analysis, a resample of 0.0452 mg/L was collected in May 2022 for selenium in downgradient well GC-AP-MW-13. The April 2022 sample of 0.111 mg/L was flagged for being spurious and a confidence interval using the 8 most recent samples through May 2022 was constructed for this well/constituent pair.

As mentioned above, well/constituent pairs containing 100% non-detects in the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter. Exceedances were noted for the following well/constituent pairs:

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

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Greene County Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Easton Rayner
Groundwater Analyst



Andrew Collins
Project Manager



Kristina Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 6/1/2022 4:40 PM View: AIV

Plant Greene County Client: Southern Company Data: Greene County AP

Antimony (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-8, GC-AP-MW-9

Beryllium (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Cadmium (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-7, GC-AP-MW-9

Fluoride (mg/L)

GC-AP-MW-31

Lead (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8

Lithium (mg/L)

GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-7

Mercury (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Molybdenum (mg/L)

GC-AP-MW-15, GC-AP-MW-3, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-9

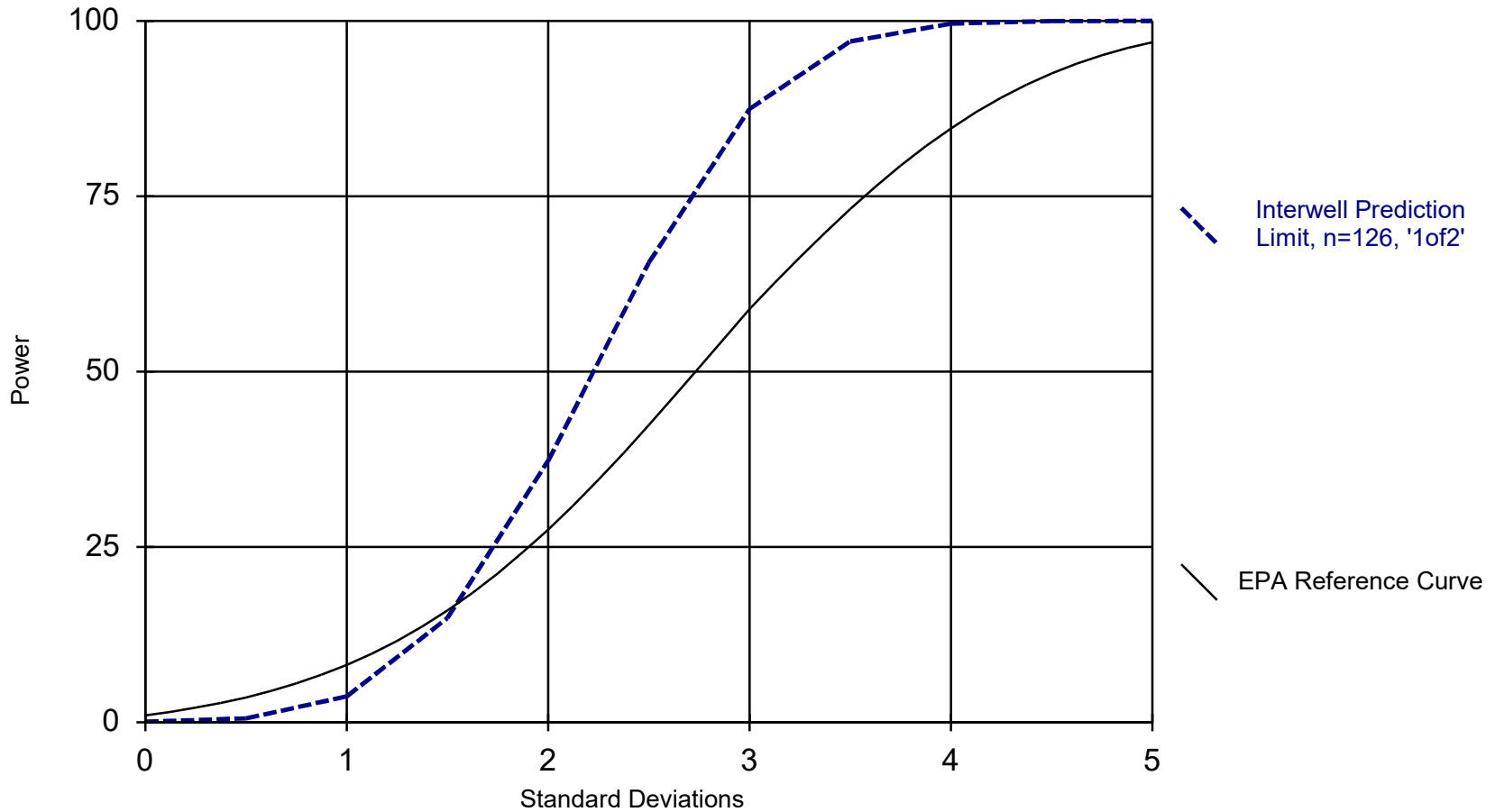
Selenium (mg/L)

GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Thallium (mg/L)

GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Power Curve



Kappa = 2.128, based on 22 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	4/4/2022	0.269	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	4/4/2022	1.92	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	3/30/2022	0.472	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	3/29/2022	0.416	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	4/6/2022	0.26	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	4/4/2022	1.89	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	3/29/2022	0.848	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	4/6/2022	2.17	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	4/4/2022	2.32	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	4/6/2022	1.6	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	3/28/2022	0.125	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	3/30/2022	0.696	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	3/29/2022	0.122	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	4/4/2022	0.615	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	3/29/2022	1.39	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	3/29/2022	1.08	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	3/29/2022	0.71	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	4/4/2022	106	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	4/4/2022	93.7	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	3/29/2022	52	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	4/6/2022	55.5	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	4/4/2022	117	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	3/29/2022	75.7	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	4/6/2022	101	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	4/4/2022	104	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	4/6/2022	96.1	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	3/28/2022	157	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	3/30/2022	51	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	4/5/2022	67.4	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	4/4/2022	98.8	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	3/29/2022	128	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	3/29/2022	126	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	3/29/2022	92.8	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	3/29/2022	72.1	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.842	n/a	4/4/2022	41.75	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.842	n/a	4/4/2022	16.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.842	n/a	3/30/2022	12.7	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.842	n/a	3/29/2022	11.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.842	n/a	4/4/2022	9.875	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.842	n/a	3/29/2022	10.3	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.842	n/a	4/6/2022	11.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.842	n/a	4/4/2022	8.06	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.842	n/a	4/6/2022	24.35	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.842	n/a	3/28/2022	11.5	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.842	n/a	3/30/2022	12.1	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.842	n/a	3/29/2022	29.6	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.842	n/a	4/5/2022	21.1	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.842	n/a	3/28/2022	6	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.842	n/a	4/4/2022	9.63	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.842	n/a	3/29/2022	45.3	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.842	n/a	3/29/2022	94.7	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.842	n/a	3/29/2022	95.4	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.842	n/a	3/29/2022	225	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	4/4/2022	0.2785	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	4/4/2022	0.226	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	4/6/2022	0.2395	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	4/4/2022	0.5855	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	4/4/2022	0.216	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	3/29/2022	0.193	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	4/4/2022	812.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	4/4/2022	116.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	3/30/2022	125	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	3/29/2022	108	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	4/6/2022	157	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	4/4/2022	195.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	3/29/2022	165	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	3/28/2022	563	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	3/30/2022	115	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	4/4/2022	160	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	3/29/2022	190	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	3/29/2022	187	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	3/29/2022	193	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	4/4/2022	1310	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	4/4/2022	443.5	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	3/30/2022	280	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	3/29/2022	290	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	4/6/2022	298	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	4/4/2022	644	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	3/29/2022	406	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	4/6/2022	472	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	4/4/2022	553	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	4/6/2022	408.5	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	3/28/2022	868	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	3/30/2022	320	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	3/29/2022	247	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	4/5/2022	338	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	4/4/2022	488	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	179	n/a	3/29/2022	722	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	3/29/2022	894	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	3/29/2022	730	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	3/29/2022	800	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	4/4/2022	0.269	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	4/4/2022	1.92	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	3/30/2022	0.472	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	3/29/2022	0.416	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	4/6/2022	0.26	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	4/4/2022	1.89	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	3/29/2022	0.848	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	4/6/2022	2.17	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	4/4/2022	2.32	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	4/6/2022	1.6	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	3/28/2022	0.125	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	3/30/2022	0.696	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	3/29/2022	0.122	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	4/5/2022	0.0453J	No	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	3/28/2022	0.1015ND	No	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	3/28/2022	0.1015ND	No	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	3/28/2022	0.1015ND	No	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	4/4/2022	0.615	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	3/29/2022	1.39	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	3/29/2022	0.0842J	No	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	3/29/2022	1.08	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	3/29/2022	0.71	Yes	126	n/a	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	4/4/2022	106	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	4/4/2022	93.7	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.8	n/a	3/30/2022	39.6	No	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	3/29/2022	52	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	4/6/2022	55.5	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	4/4/2022	117	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	3/29/2022	75.7	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	4/6/2022	101	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	4/4/2022	104	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	4/6/2022	96.1	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	3/28/2022	157	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	3/30/2022	51	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.8	n/a	3/29/2022	31.9	No	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	4/5/2022	67.4	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	42.8	n/a	3/28/2022	5.95	No	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	42.8	n/a	3/28/2022	9.61	No	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	42.8	n/a	3/28/2022	2.21	No	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	4/4/2022	98.8	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	3/29/2022	128	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	3/29/2022	126	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	3/29/2022	92.8	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	3/29/2022	72.1	Yes	133	n/a	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.842	n/a	4/4/2022	41.75	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-10	5.842	n/a	4/4/2022	16.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-11	5.842	n/a	3/30/2022	12.7	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-12	5.842	n/a	3/29/2022	11.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-13	5.842	n/a	4/6/2022	3.71	No	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-14	5.842	n/a	4/4/2022	9.875	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-15	5.842	n/a	3/29/2022	10.3	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-16	5.842	n/a	4/6/2022	11.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-17	5.842	n/a	4/4/2022	8.06	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-18	5.842	n/a	4/6/2022	24.35	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-2	5.842	n/a	3/28/2022	11.5	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-21	5.842	n/a	3/30/2022	12.1	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-25	5.842	n/a	3/29/2022	29.6	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-3	5.842	n/a	4/5/2022	21.1	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-31	5.842	n/a	3/28/2022	6	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-32	5.842	n/a	3/28/2022	3.98	No	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-33	5.842	n/a	3/28/2022	5.47	No	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-5	5.842	n/a	4/4/2022	9.63	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-6	5.842	n/a	3/29/2022	45.3	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-7	5.842	n/a	3/29/2022	94.7	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-8	5.842	n/a	3/29/2022	95.4	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-9	5.842	n/a	3/29/2022	225	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2	
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	4/4/2022	0.124	No	127	n/a	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	4/4/2022	0.2785	Yes	127	n/a	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	3/30/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	3/29/2022	0.107J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	4/6/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	4/4/2022	0.226	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	3/29/2022	0.117J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	4/6/2022	0.2395	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	4/4/2022	0.5855	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	4/6/2022	0.1385	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	3/28/2022	0.105J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	3/30/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	3/29/2022	0.0724J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	4/5/2022	0.146	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	3/28/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	3/28/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	3/28/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	4/4/2022	0.216	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	3/29/2022	0.193	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	3/29/2022	0.104J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	3/29/2022	0.108J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	3/29/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-1	6.8	3.78	4/4/2022	5.17	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-10	6.8	3.78	4/4/2022	6.21	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-11	6.8	3.78	3/30/2022	6.02	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.78	3/29/2022	6.44	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-13	6.8	3.78	4/6/2022	6.24	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.8	3.78	4/4/2022	6.39	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-15	6.8	3.78	3/29/2022	5.81	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.8	3.78	4/6/2022	6.42	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.8	3.78	4/4/2022	6.71	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-18	6.8	3.78	4/6/2022	6.29	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.8	3.78	3/28/2022	5.32	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.8	3.78	3/30/2022	6.09	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-25	6.8	3.78	3/29/2022	5.26	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.8	3.78	4/5/2022	6.27	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.8	3.78	3/28/2022	5.05	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.8	3.78	3/28/2022	5.01	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.8	3.78	3/28/2022	4.29	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.8	3.78	4/4/2022	6.42	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-6	6.8	3.78	3/29/2022	5.99	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.8	3.78	3/29/2022	6.62	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-8	6.8	3.78	3/29/2022	6.21	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.8	3.78	3/29/2022	5.61	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	4/4/2022	812.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	4/4/2022	116.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	3/30/2022	125	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	3/29/2022	108	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	4/6/2022	157	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	4/4/2022	195.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	3/29/2022	165	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	4/6/2022	45.3	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	4/4/2022	68.9	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	4/6/2022	16.05	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	3/28/2022	563	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	3/30/2022	115	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	3/29/2022	68.6	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	4/5/2022	14.95	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	3/28/2022	3.34	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	3/28/2022	2.55	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	3/28/2022	11.8	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	4/4/2022	160	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	3/29/2022	190	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	3/29/2022	187	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	3/29/2022	75.3	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	3/29/2022	193	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	179	n/a	4/4/2022	1310	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	4/4/2022	443.5	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	3/30/2022	280	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	3/29/2022	290	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	GC-AP-MW-13	179	n/a	4/6/2022	298	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	4/4/2022	644	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	3/29/2022	406	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	4/6/2022	472	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	4/4/2022	553	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	4/6/2022	408.5	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	3/28/2022	868	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	3/30/2022	320	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	3/29/2022	247	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	4/5/2022	338	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	179	n/a	3/28/2022	43.3	No	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	179	n/a	3/28/2022	51.3	No	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	179	n/a	3/28/2022	57.3	No	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	4/4/2022	488	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	179	n/a	3/29/2022	722	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	3/29/2022	894	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	3/29/2022	730	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	3/29/2022	800	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2

Trend Test - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 1:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.0172	76	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2078	104	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.07797	124	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1243	90	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08488	78	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05048	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.00546	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03094	86	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.08416	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2024	111	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-16.33	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	2.867	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	6.611	93	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	17.34	99	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	4.579	103	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.345	149	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.432	117	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	13.77	100	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.384	-107	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	6.704	153	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1803	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1907	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.139	139	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	18.09	102	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.8313	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.07045	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.062	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	5.013	139	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02341	99	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01461	88	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.03135	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	13.22	137	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	12.94	91	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	26.41	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-7.9	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	43.7	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.304	-125	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	17.51	114	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4499	82	74	Yes	19	26.32	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.6488	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	30.28	137	74	Yes	19	5.263	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	19.82	80	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	16.36	114	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	21.14	129	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	81.94	76	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	27.67	149	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	28.55	94	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	56.1	91	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-6.395	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	26.07	108	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	16.37	121	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-6.287	-102	-74	Yes	19	57.89	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	36.19	127	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	87.78	148	74	Yes	19	0	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 1:11 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GC-AP-MW-1	0.0172	76	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	0.07468	38	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.03205	-51	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	0.02144	17	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.02241	21	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2078	104	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.07797	124	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1243	90	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08488	78	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05048	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.001889	32	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	0.002128	5	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	34	68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.00546	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	7	68	No	18	94.44	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	21	68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	7	68	No	18	94.44	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	11	68	No	18	94.44	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03094	86	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.08416	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.05165	28	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2024	111	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-16.33	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	2.867	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	2.844	69	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	6.611	93	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	17.34	99	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	4.579	103	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.345	149	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.432	117	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-0.8245	-18	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	13.77	100	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-21	0.4469	19	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.384	-107	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	6.704	153	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.3246	-39	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.04491	25	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1803	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1907	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	-3.793	-39	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.139	139	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	3.117	59	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	-0.7706	-4	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.659	57	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	18.09	102	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-1	-0.1215	-6	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	0.1169	8	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.6636	-52	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.4994	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.8313	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-15	-0.1127	-18	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.4083	-52	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-1.015	-54	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.4917	72	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.3644	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	0.2131	17	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.07045	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (bg)	0.01314	1	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-0.77	-41	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.02146	-12	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.0869	63	74	No	19	5.263	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.06692	-57	-74	No	19	10.53	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.2286	-70	-74	No	19	10.53	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	-0.2765	-45	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-31	0.05755	53	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.062	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	2.111	68	74	No	19	0	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 1:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-7	6.316	71	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	2.111	18	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	5.013	139	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	0.00487	33	74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02341	99	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01461	88	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.03135	81	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.002137	37	74	No	19	5.263	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	60	74	No	19	63.16	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	0	3	53	No	15	46.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	17	68	No	18	94.44	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	11	68	No	18	88.89	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	33	74	No	19	89.47	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0.002335	23	74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.003724	31	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	20.65	51	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	13.22	137	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	12.94	91	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-12	1.353	5	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-13	11.74	46	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	26.41	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-7.9	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	43.7	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-21	-6.219	-67	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.304	-125	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	17.51	114	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-1.736	-63	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4499	82	74	Yes	19	26.32	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.6488	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	26	74	No	19	52.63	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	30.28	137	74	Yes	19	5.263	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	11.48	61	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	-1.965	-6	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	19.82	80	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	18.43	20	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	16.36	114	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	21.14	129	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-12	10.43	45	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	18.79	60	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	81.94	76	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	7.03	36	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	27.67	149	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	28.55	94	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-10.17	-43	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	56.1	91	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-2.005	-5	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-6.395	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	26.07	108	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	16.37	121	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (bg)	-3.514	-53	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.7289	46	74	No	19	26.32	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.224	-69	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-6.287	-102	-74	Yes	19	57.89	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-5.087	-58	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	36.19	127	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	21.04	60	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	3.847	12	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	10.43	27	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	87.78	148	74	Yes	19	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:28 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.00137	119	n/a	n/a	91.6	n/a	n/a	0.002234	NP Inter(NDs)
Arsenic (mg/L)	0.0044	119	n/a	n/a	83.19	n/a	n/a	0.002234	NP Inter(NDs)
Barium (mg/L)	0.347	119	n/a	n/a	0	n/a	n/a	0.002234	NP Inter(normality)
Beryllium (mg/L)	0.00226	119	n/a	n/a	86.55	n/a	n/a	0.002234	NP Inter(NDs)
Cadmium (mg/L)	0.000912	119	n/a	n/a	74.79	n/a	n/a	0.002234	NP Inter(normality)
Chromium (mg/L)	0.01	119	n/a	n/a	88.24	n/a	n/a	0.002234	NP Inter(NDs)
Cobalt (mg/L)	0.0167	119	n/a	n/a	57.98	n/a	n/a	0.002234	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	3.88	119	n/a	n/a	3.361	n/a	n/a	0.002234	NP Inter(normality)
Fluoride (mg/L)	0.159	120	n/a	n/a	67.5	n/a	n/a	0.002122	NP Inter(normality)
Lead (mg/L)	0.0002	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)
Lithium (mg/L)	0.02	119	n/a	n/a	100	n/a	n/a	0.002234	NP Inter(NDs)
Mercury (mg/L)	0.0005	119	n/a	n/a	100	n/a	n/a	0.002234	NP Inter(NDs)
Molybdenum (mg/L)	0.00308	119	n/a	n/a	97.48	n/a	n/a	0.002234	NP Inter(NDs)
Selenium (mg/L)	0.0072	119	n/a	n/a	89.92	n/a	n/a	0.002234	NP Inter(NDs)
Thallium (mg/L)	0.00039	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)

GREENE COUNTY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00137	0.006
Arsenic	mg/L	0.0044	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.00226	0.004
Cadmium	mg/L	0.000912	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	3.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.0002	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00308	0.1
Selenium	mg/L	0.0072	0.05
Thallium	mg/L	0.00039	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

Confidence Interval Summary Table - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/10/2022, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.02595	0.0184	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.01419	0.01173	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.02872	0.02023	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.1032	0.06832	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.8918	0.3339	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.05079	0.04798	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4587	0.3915	0.01	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2714	0.1196	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.04267	0.02178	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01958	0.01687	0.0167	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.329	0.11	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1327	0.0719	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1441	0.06377	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.4979	0.1204	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.9722	0.5893	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6241	0.5512	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6624	0.5563	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.864	0.552	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-18	0.3944	0.3251	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1137	0.06087	0.04	Yes	8	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1376	0.1026	0.04	Yes	8	0	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/10/2022, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-12	0.00121	0.00102	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.00341	0.00185	0.006	No	8	0	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-17	0.00102	0.000897	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.00102	0.000964	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.00141	0.00102	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.00102	0.00066	0.006	No	8	75	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-1	0.02595	0.0184	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.01419	0.01173	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-11	0.005879	0.001998	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.000251	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-13	0.004863	0.001584	0.01	No	8	0	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.02872	0.02023	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-15	0.00046	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-16	0.1032	0.06832	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.8918	0.3339	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.05079	0.04798	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-2	0.01567	0.003015	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.000216	0.00014	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-25	0.00033	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-3	0.01105	0.006592	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-31	0.0002	0.000111	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.0002	0.000142	0.01	No	8	75	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-33	0.0002	0.00015	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-5	0.4587	0.3915	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-6	0.000303	0.00013	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-7	0.0002	0.00008	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-8	0.00027	0.00015	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-9	0.01092	0.007675	0.01	No	8	0	x^4	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.03052	0.02016	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.2676	0.1709	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.09464	0.05316	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03552	0.02178	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.2005	0.06695	2	No	8	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1149	0.066	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.03905	0.02942	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.1042	0.06739	2	No	8	0	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3297	0.229	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1086	0.07623	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03604	0.02986	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.1024	0.04561	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1084	0.07735	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1527	0.09772	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.0321	0.02377	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0764	0.0123	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.0995	0.02902	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.323	0.131	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-6	0.07849	0.05964	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08588	0.07039	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1335	0.09094	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1886	0.1436	2	No	8	0	No	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-11	0.000347	0.0002	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.0002	0.00008	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.00046	0.00012	0.005	No	8	62.5	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-2	0.0002	0.00012	0.005	No	8	75	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-21	0.0002	0.00007	0.005	No	8	75	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-25	0.0002	0.00007	0.005	No	8	75	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.00018	0.005	No	8	62.5	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-8	0.000241	0.0002	0.005	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.00102	0.00034	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-10	0.00102	0.000357	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-11	0.00102	0.00023	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-12	0.00102	0.000224	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-13	0.00102	0.00026	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-14	0.00102	0.00023	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-15	0.00102	0.00027	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-16	0.00102	0.00034	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-17	0.00102	0.000216	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-18	0.00102	0.00023	0.1	No	8	62.5	No	0.004	NP (normality)

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/10/2022, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	GC-AP-MW-2	0.00267	0.0003	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-21	0.00102	0.00022	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-25	0.00102	0.00028	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-3	0.00102	0.00032	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-31	0.00102	0.00039	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-32	0.00102	0.00038	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-33	0.00102	0.00044	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-5	0.00102	0.00025	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-6	0.00102	0.00026	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-7	0.00102	0.00024	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-8	0.00102	0.00027	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-9	0.00102	0.00027	0.1	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-1	0.2714	0.1196	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.04203	0.014	0.0167	No	8	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.03895	0.01457	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-12	0.00118	0.0002	0.0167	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-13	0.00126	0.00007	0.0167	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-14	0.04267	0.02178	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01958	0.01687	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01672	0.01423	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.0321	0.0109	0.0167	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-18	0.01792	0.01573	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.02973	0.01292	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-21	0.00284	0.0002	0.0167	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-25	0.01322	0.009578	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.00463	0.0002	0.0167	No	8	12.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-31	0.000624	0.0002	0.0167	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-32	0.00105	0.0002	0.0167	No	8	75	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-33	0.00099	0.0002	0.0167	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.008915	0.005452	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003646	0.002109	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003817	0.001626	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.01065	0.005562	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.02726	0.01437	0.0167	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.479	0.8662	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.647	0.7269	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.6939	0.4979	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.043	0.0003309	5	No	8	0	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.5627	0.3043	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.374	0.7391	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	0.7216	0.248	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.288	0.4672	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.248	1.082	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.552	0.8931	5	No	8	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.383	0.4359	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.7428	0.04578	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	0.7915	0.1545	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.317	0.6006	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.7125	0.1816	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	1.976	-0.3098	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.296	0.7576	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.033	1.13	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.244	0.5642	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.129	0.512	5	No	8	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.446	0.3853	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.653	1.047	5	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1819	0.08232	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2932	0.204	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1802	0.08211	4	No	8	12.5	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2389	0.1444	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1287	0.06755	4	No	8	12.5	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.2691	0.2077	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1502	0.1104	4	No	8	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.3018	0.2416	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.6008	0.4711	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.2075	0.1534	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1577	0.06995	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.2197	0.09989	4	No	8	12.5	No	0.01	Param.

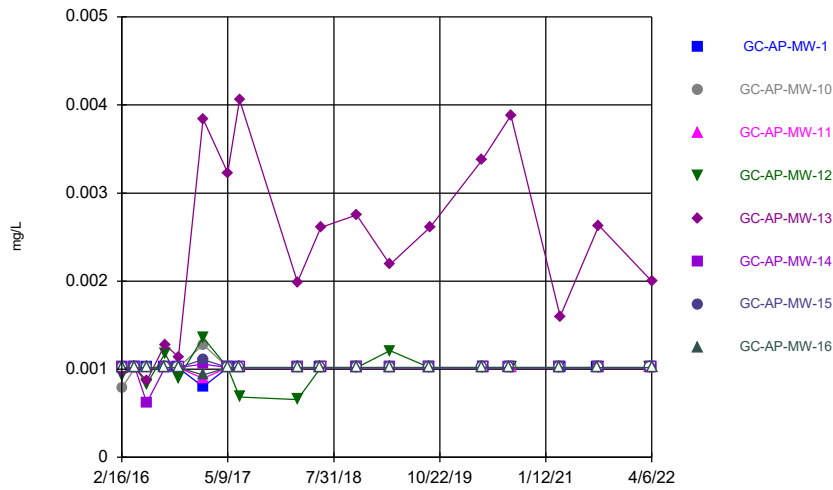
Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/10/2022, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-25	0.104	0.0625	4	No	8	62.5	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-3	0.1914	0.1013	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-32	0.0625	0.0518	4	No	8	87.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-33	0.08	0.0625	4	No	8	87.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-5	0.322	0.2	4	No	8	0	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-6	0.241	0.1753	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1058	0.08642	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.162	0.108	4	No	8	0	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.2172	0.1159	4	No	8	12.5	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.0002	0.00009	0.015	No	8	62.5	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-2	0.000736	0.0002	0.015	No	8	62.5	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-25	0.0002	0.0000884	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.0002	0.00015	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.0002	0.000121	0.015	No	8	75	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-33	0.0002	0.00015	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.0002	0.0000784	0.015	No	8	87.5	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-10	0.329	0.11	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1327	0.0719	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1441	0.06377	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.4979	0.1204	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.9722	0.5893	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6241	0.5512	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6624	0.5563	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.864	0.552	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-18	0.3944	0.3251	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1137	0.06087	0.04	Yes	8	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1376	0.1026	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-6	0.03337	0.008532	0.04	No	8	12.5	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.07163	0.01377	0.04	No	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.1005	0.0254	0.04	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-1	0.0002	0.000117	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.0132	0.00747	0.1	No	8	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-11	0.01754	0.006512	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.1169	0.05569	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.08885	0.01377	0.1	No	8	0	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01812	0.01196	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.0002	0.000113	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-17	0.06869	0.04624	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.0004	0.0002	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-2	0.0002	0.0000804	0.1	No	8	75	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-21	0.06508	0.01395	0.1	No	8	0	x^2	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-25	0.0002	0.0000843	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.0002	0.0000741	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.003495	0.002752	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.0024	0.0002	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-7	0.0002	0.00013	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-8	0.0002	0.0000812	0.1	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.00221	0.00102	0.05	No	8	62.5	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-12	0.00281	0.00102	0.05	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.02915	0.001838	0.05	No	8	25	No	0.01	Param.
Selenium (mg/L)	GC-AP-MW-2	0.00102	0.00054	0.05	No	8	75	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-3	0.00102	0.00074	0.05	No	8	62.5	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-32	0.00102	0.00059	0.05	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.00102	0.00071	0.05	No	8	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.0002	0.000107	0.002	No	8	62.5	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-11	0.0002	0.00007	0.002	No	8	62.5	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-13	0.001712	0.0002843	0.002	No	8	0	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.0002	0.0000878	0.002	No	8	75	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-16	0.0003935	0.0003285	0.002	No	8	0	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-2	0.0002	0.000101	0.002	No	8	62.5	No	0.004	NP (normality)
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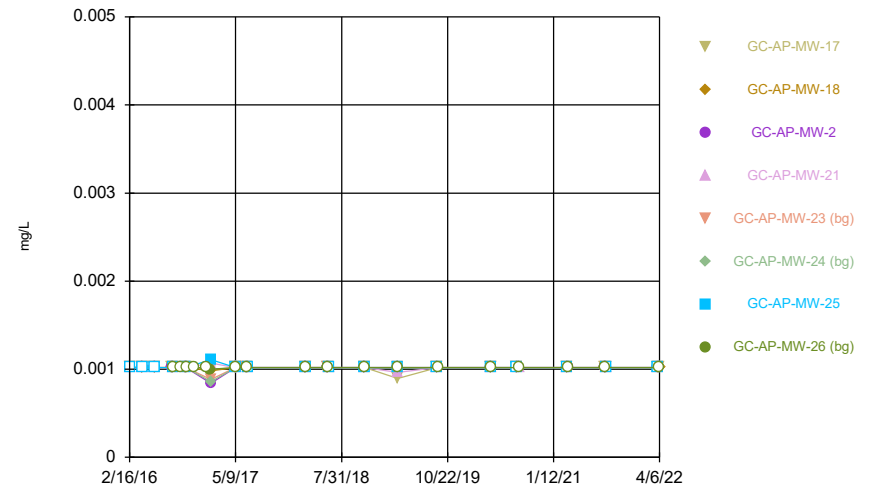
FIGURE A.

Time Series



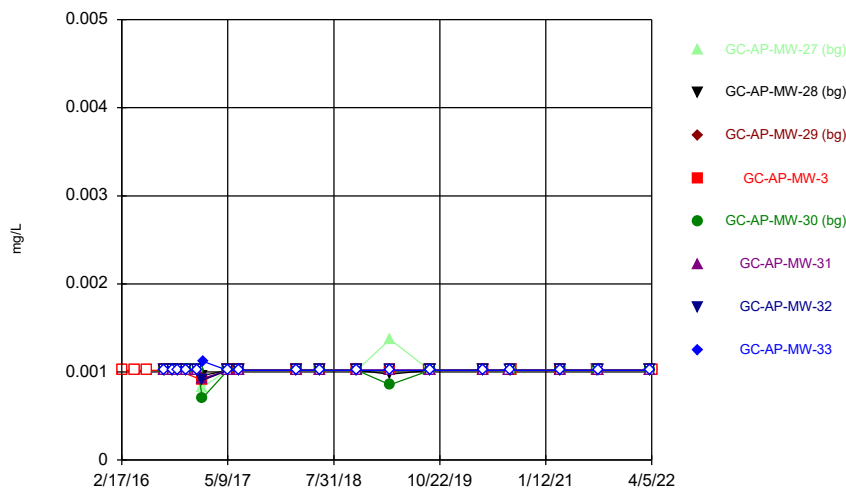
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Time Series



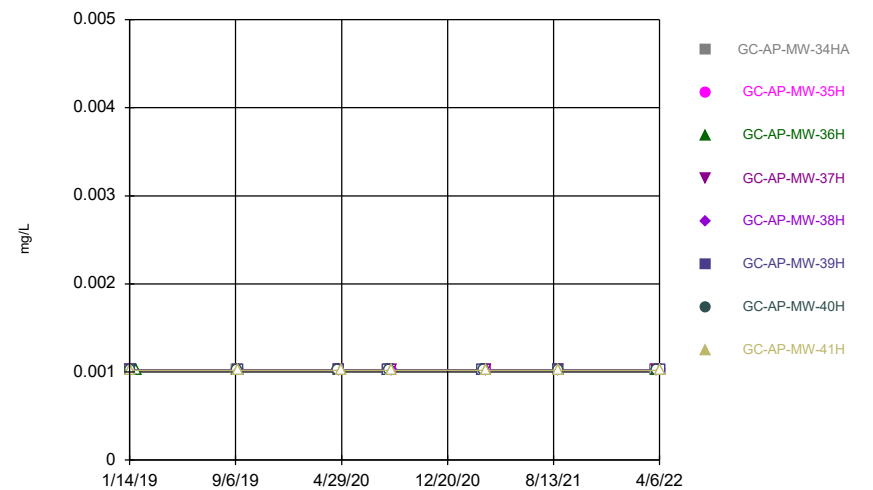
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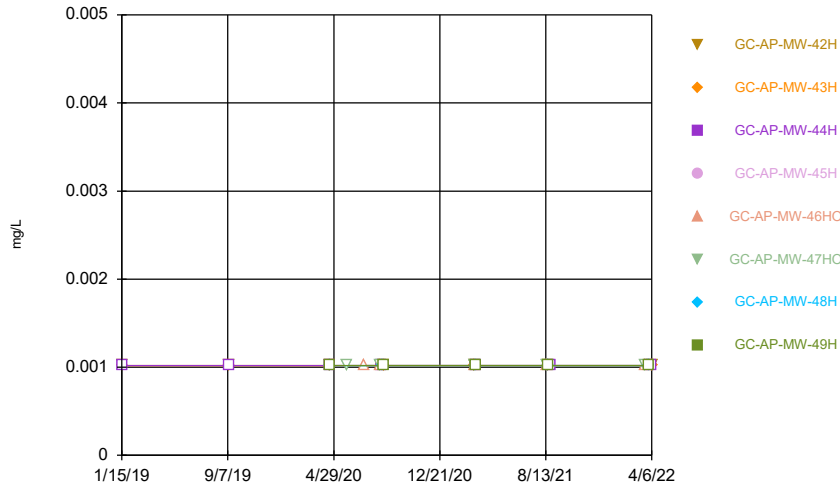
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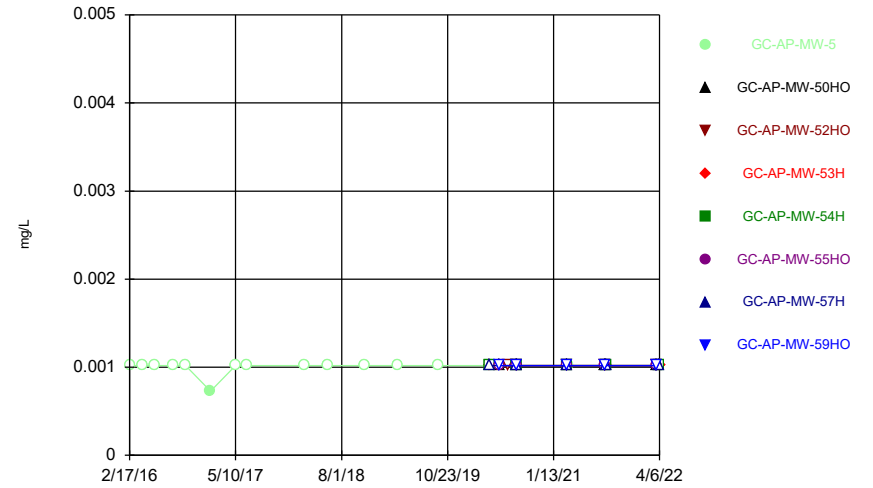
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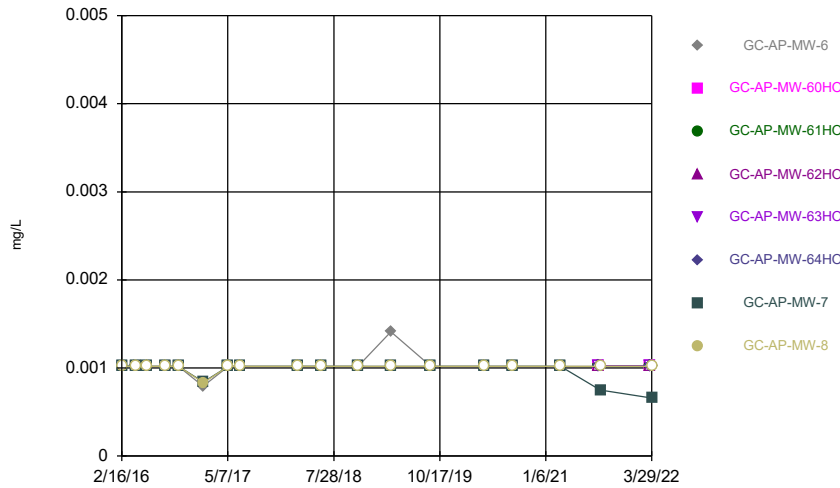
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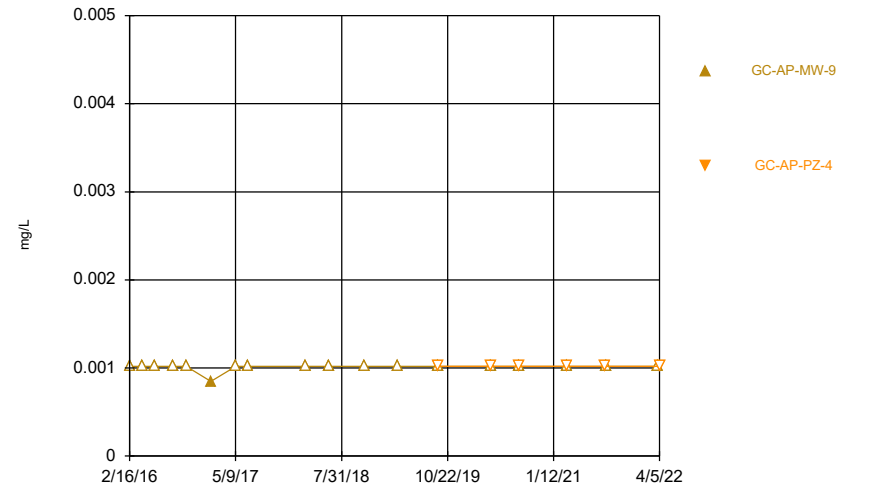
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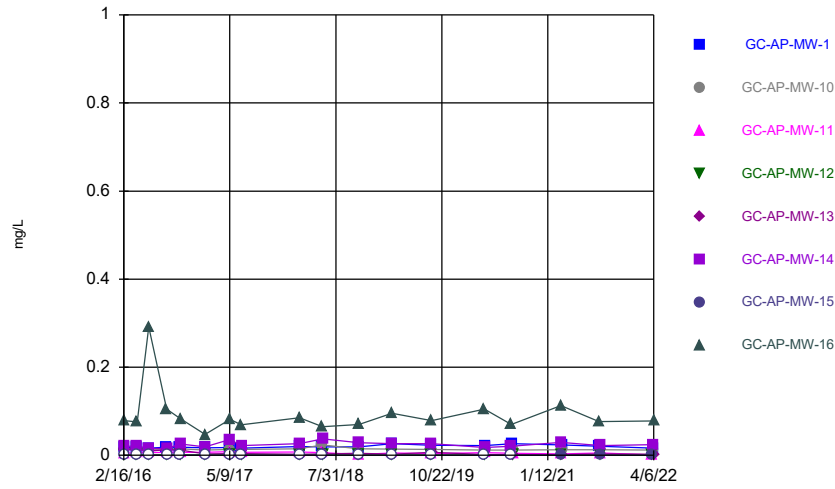
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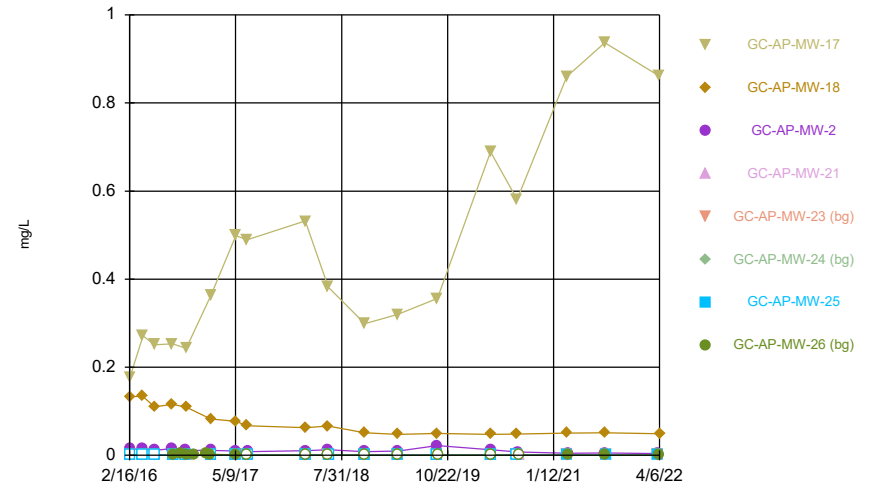
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Time Series



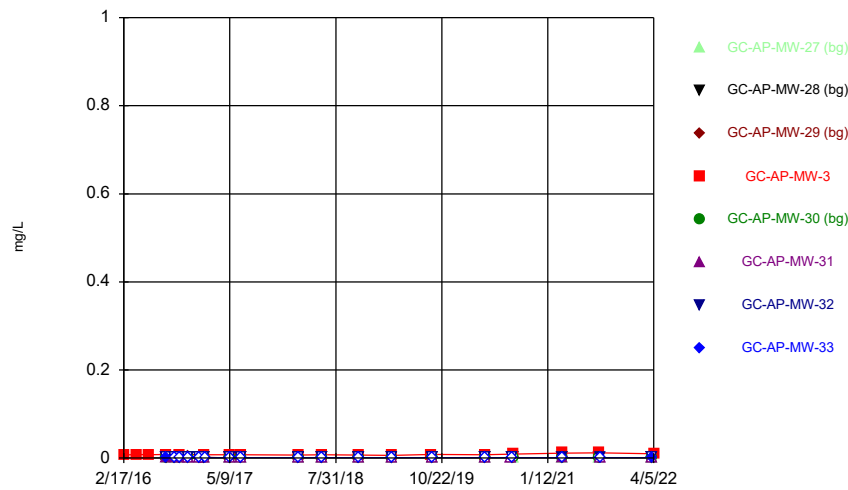
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Time Series



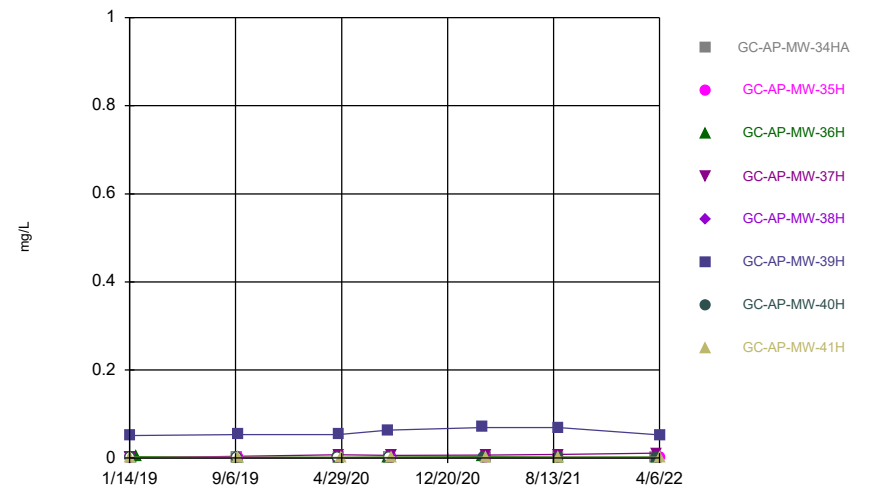
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Time Series



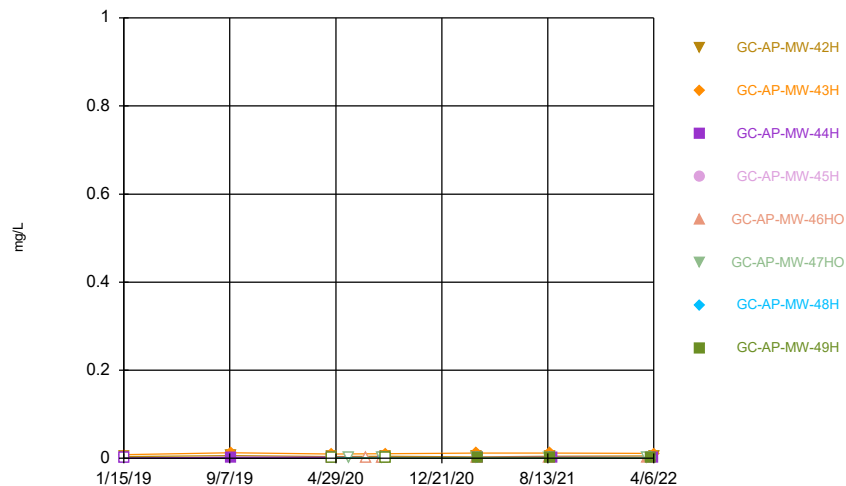
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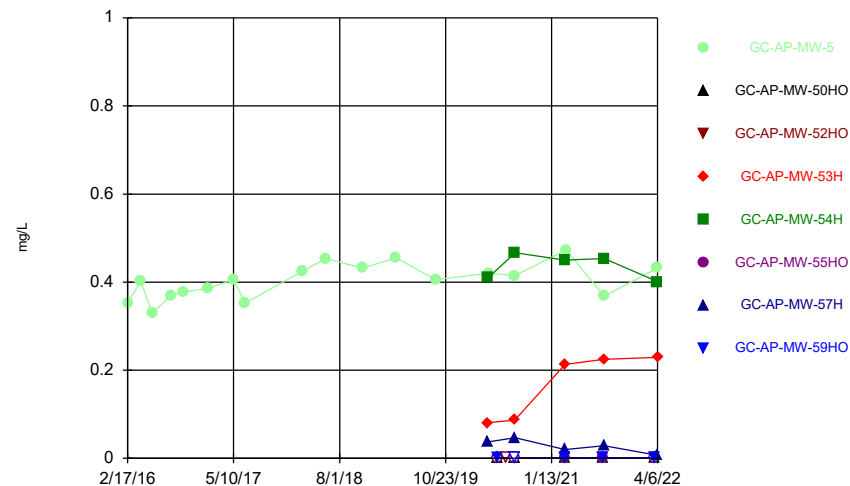
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Time Series



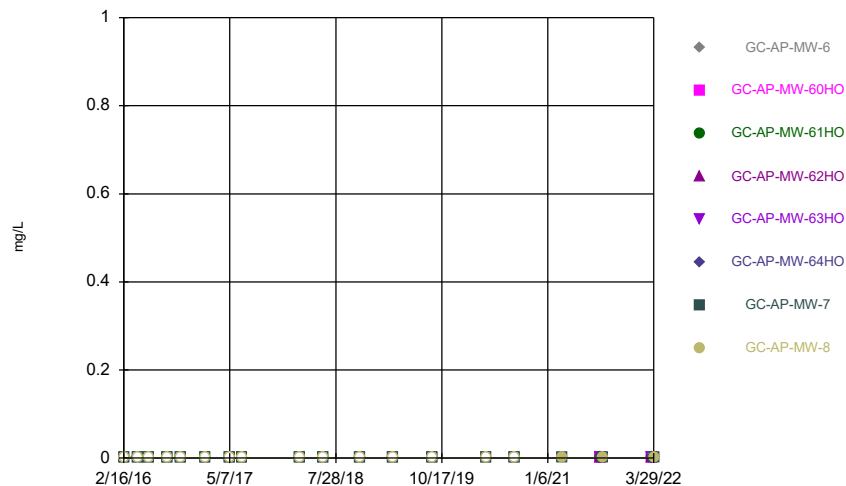
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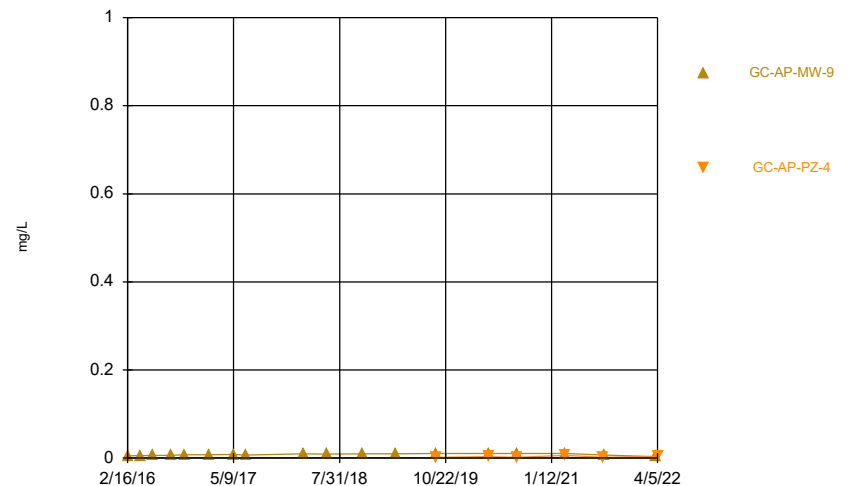
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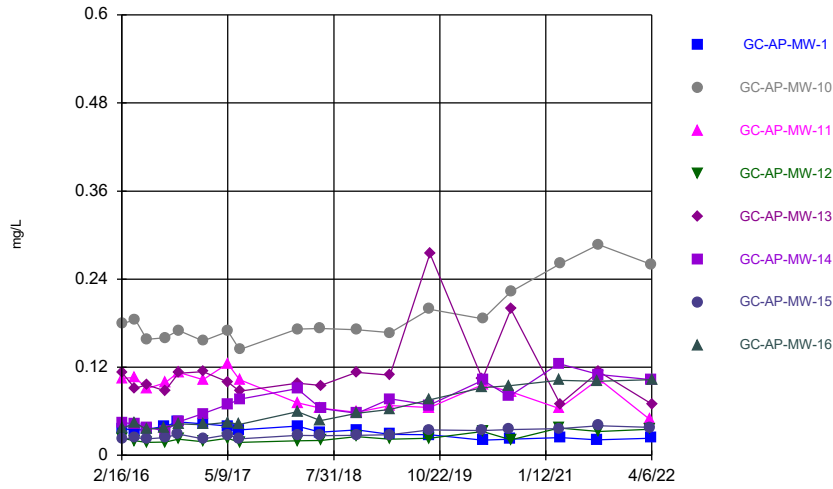
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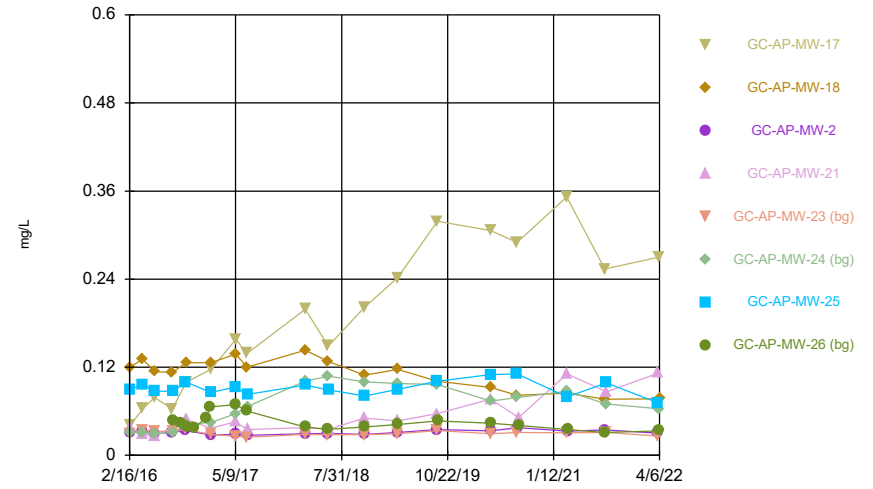
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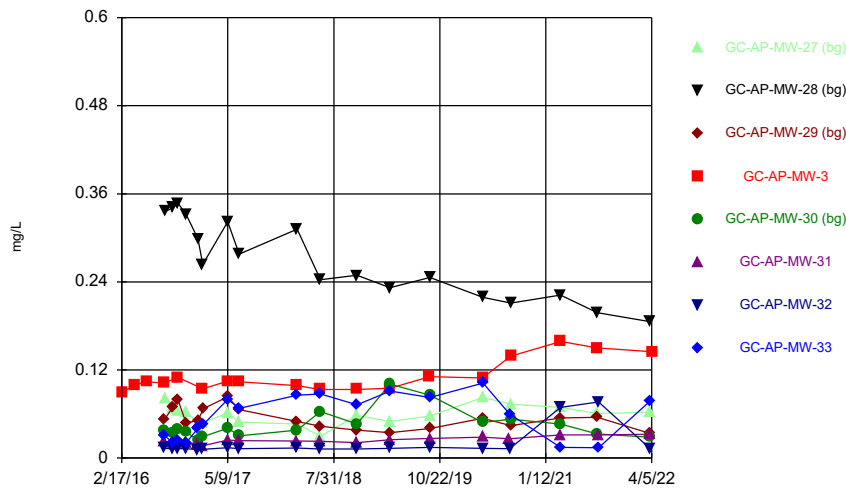
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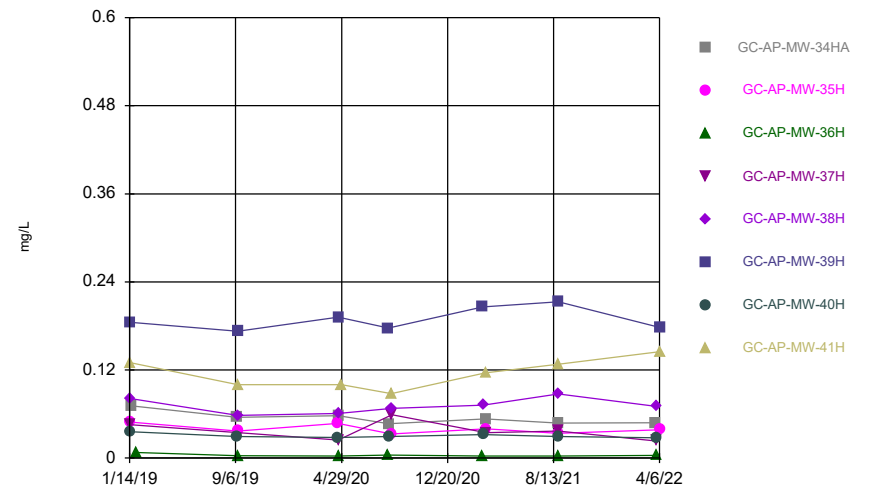
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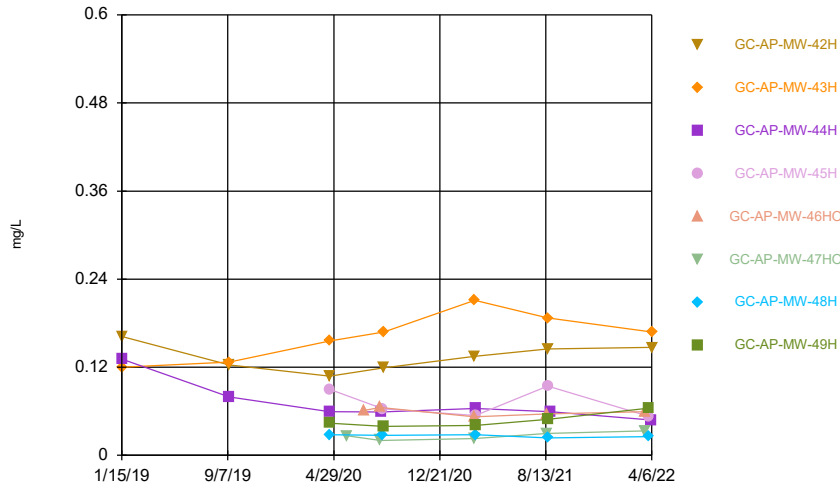
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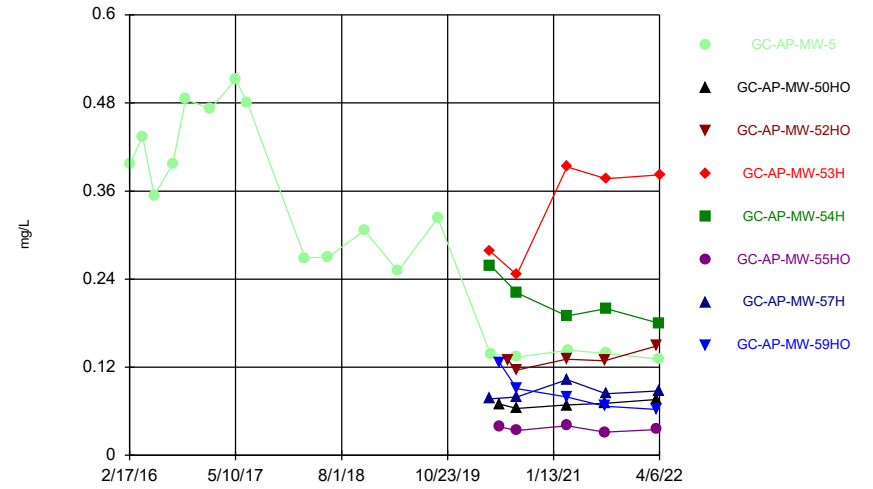
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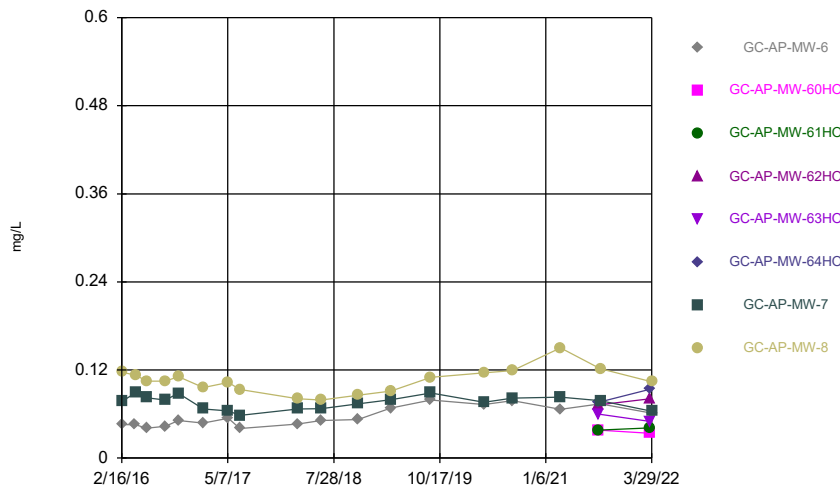
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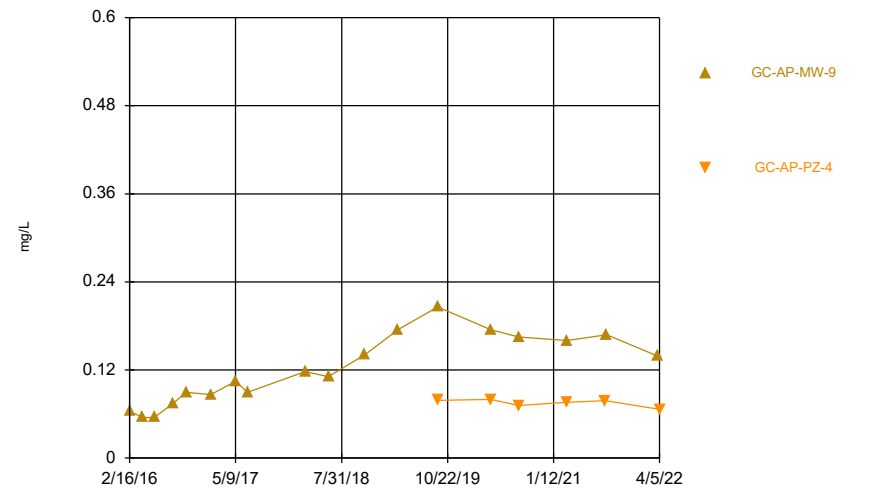
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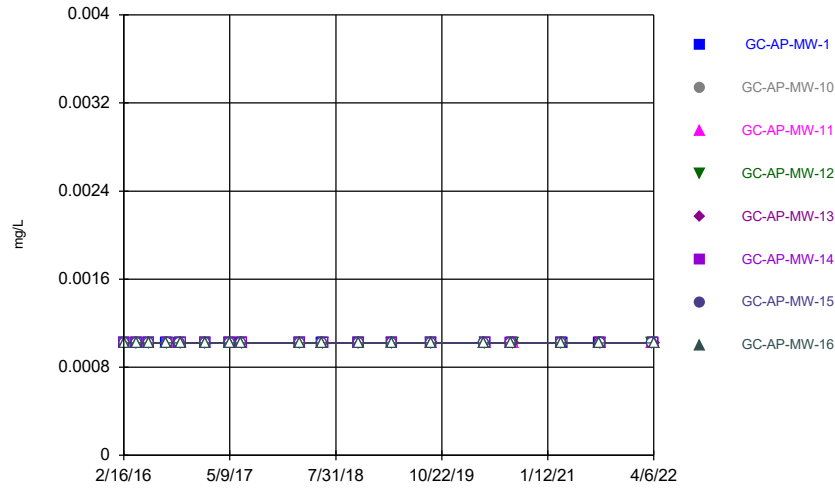
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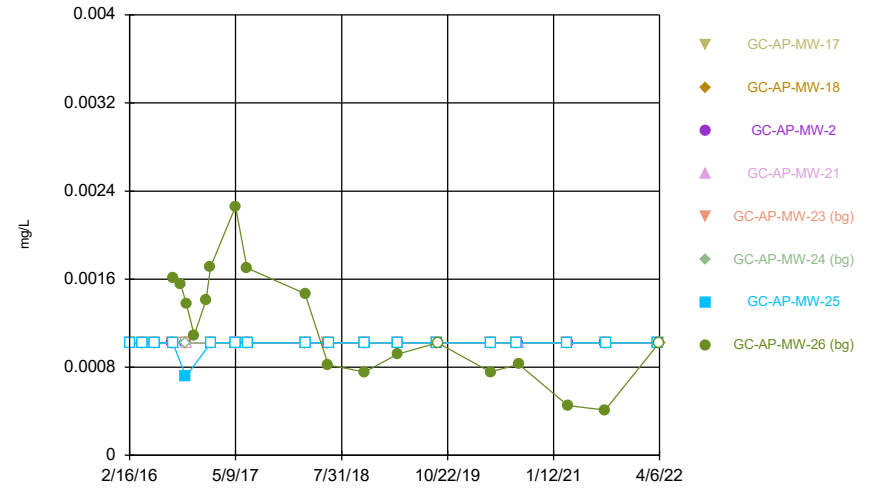
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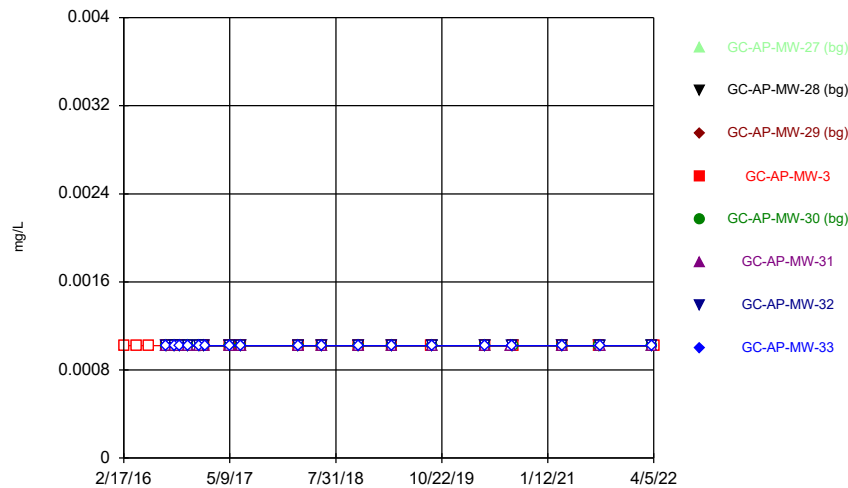
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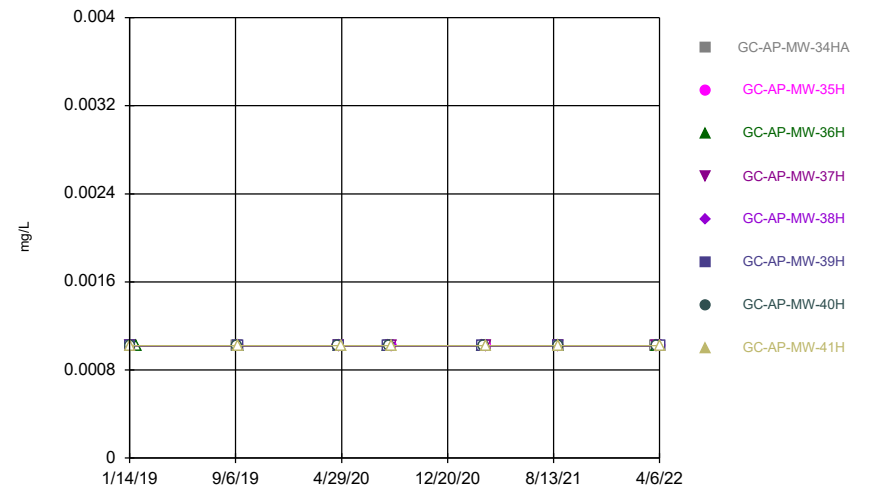
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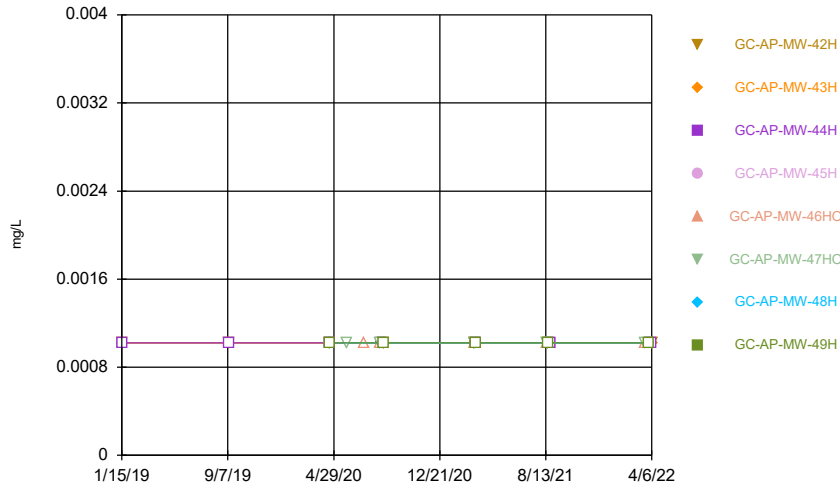
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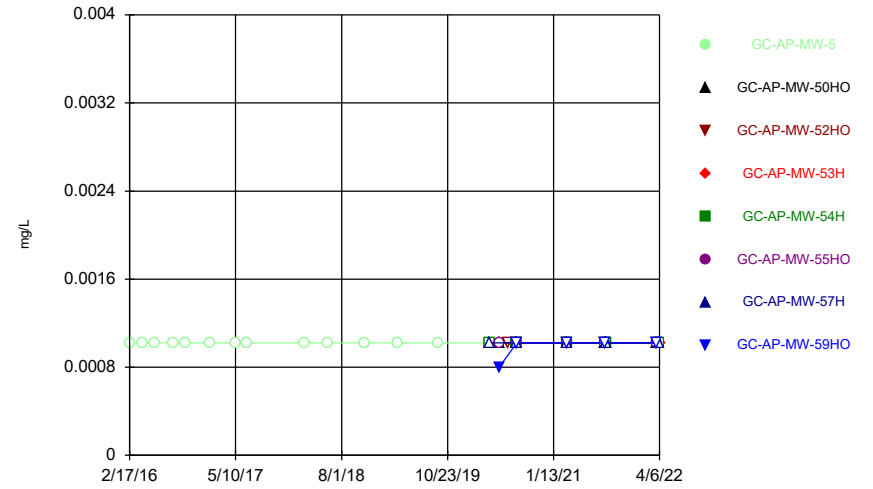
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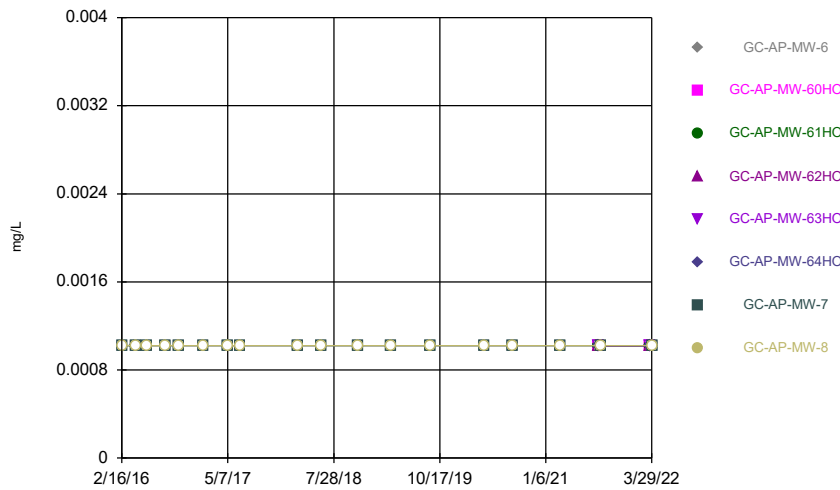
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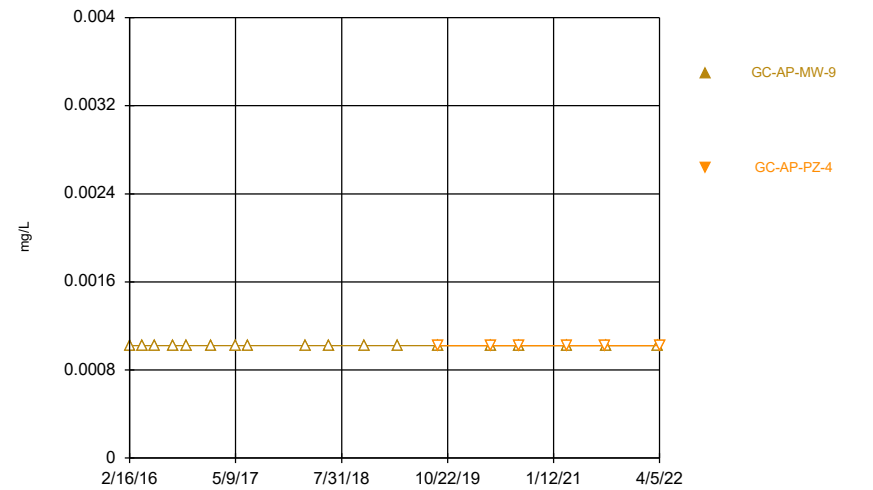
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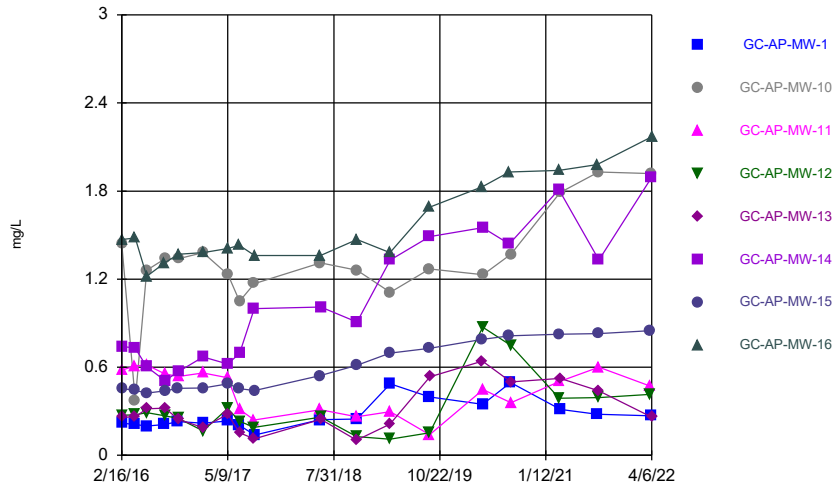
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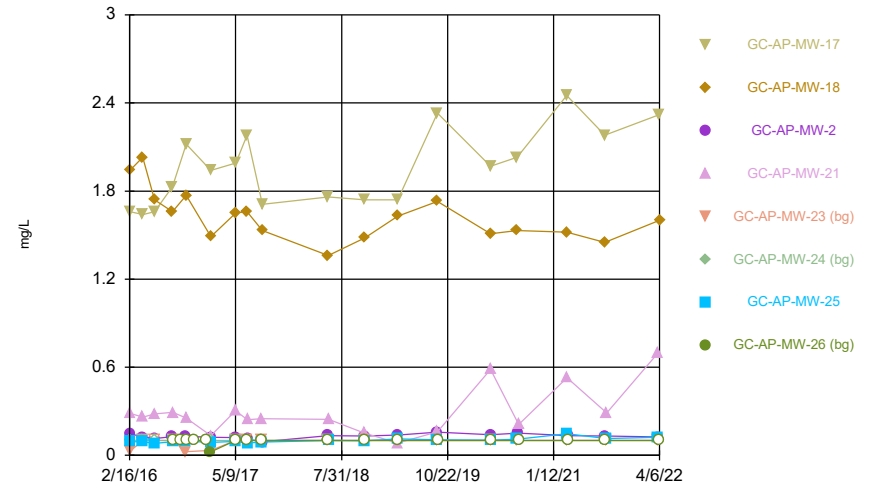
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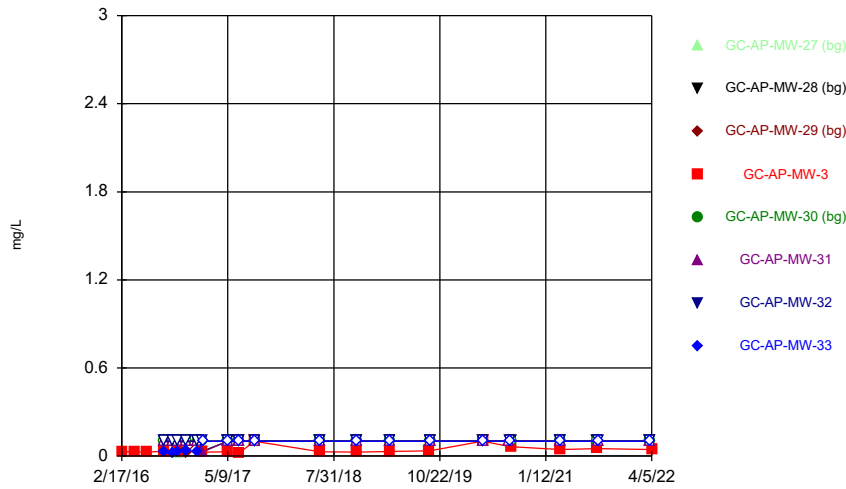
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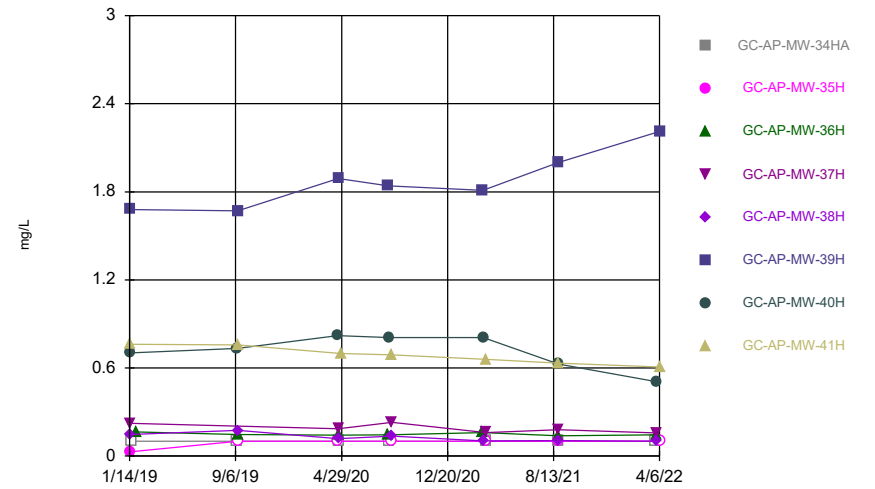
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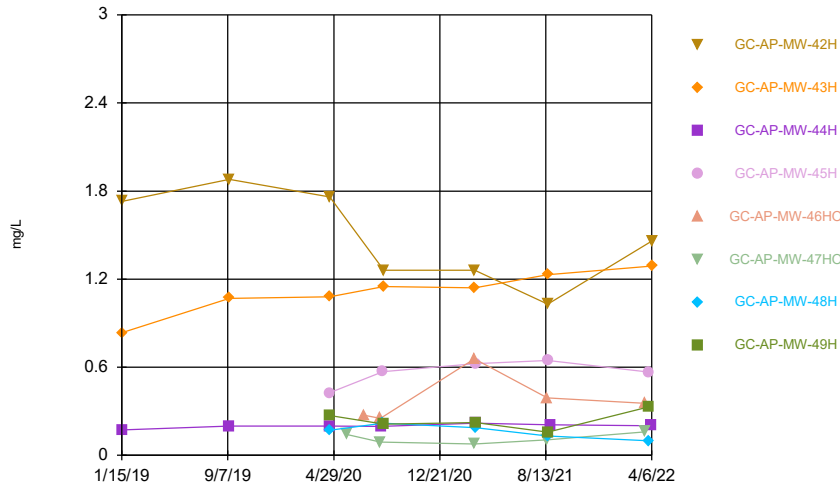
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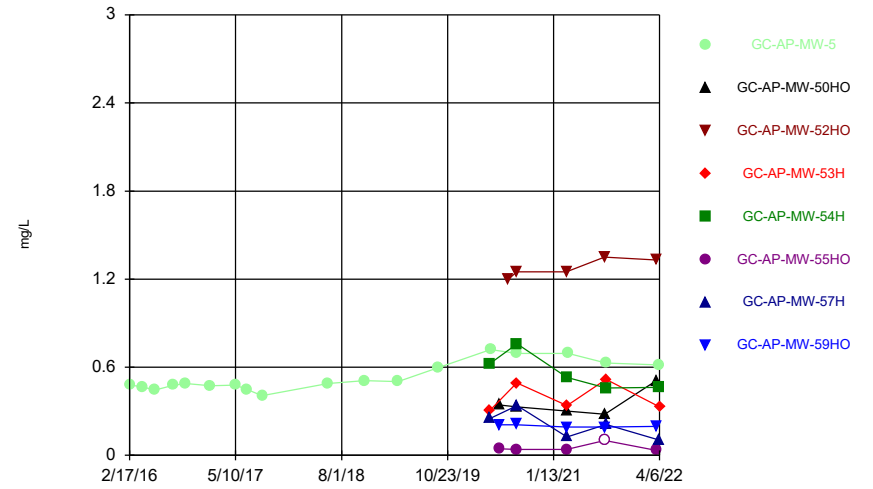
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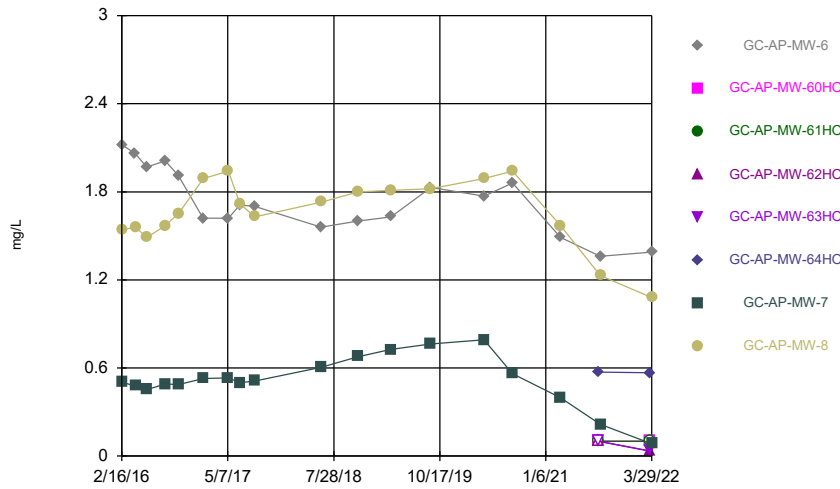
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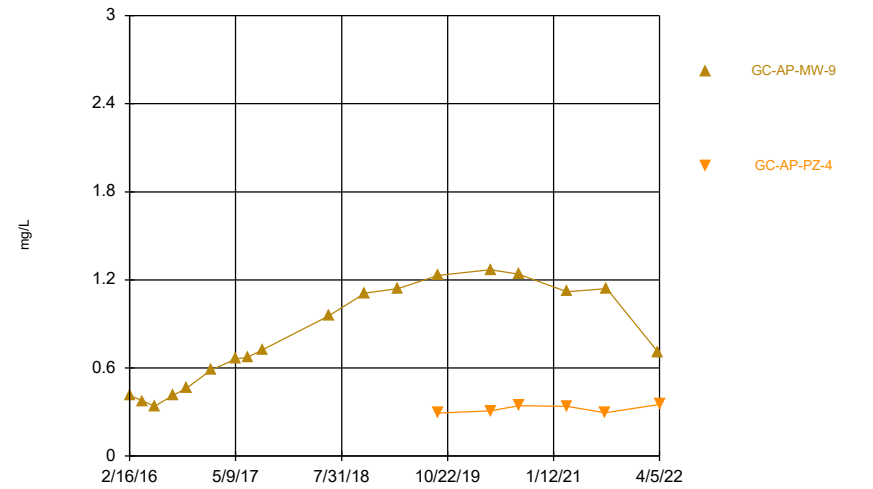
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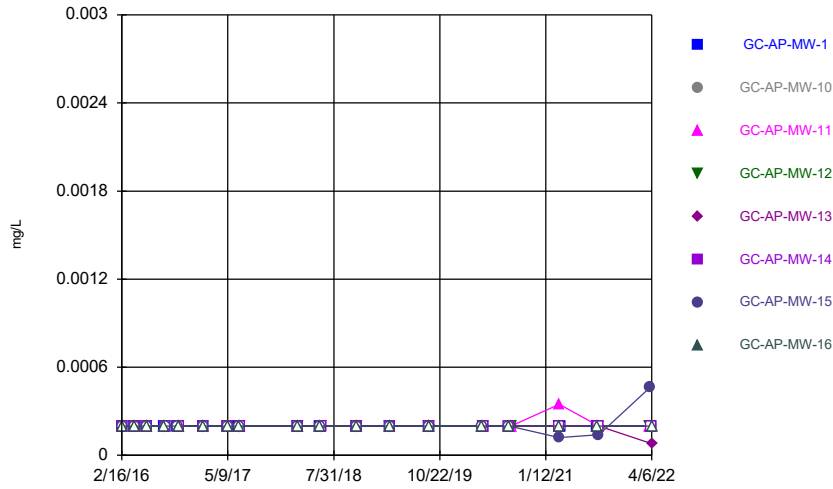
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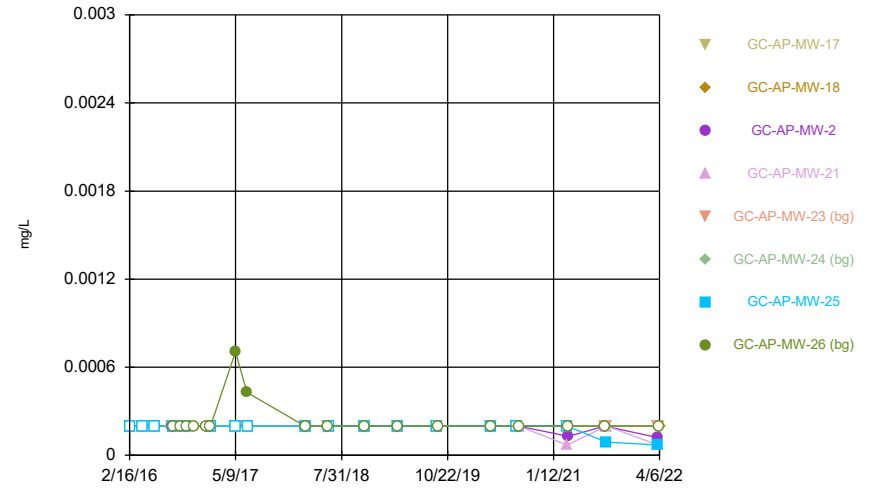
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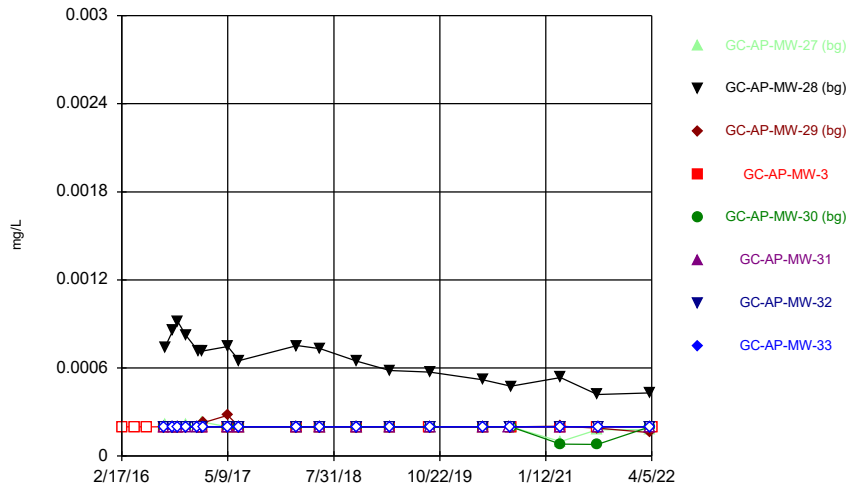
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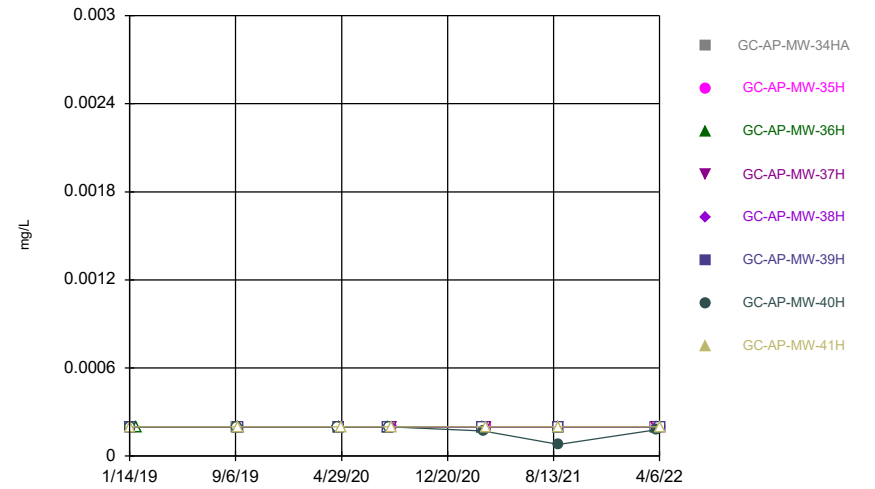
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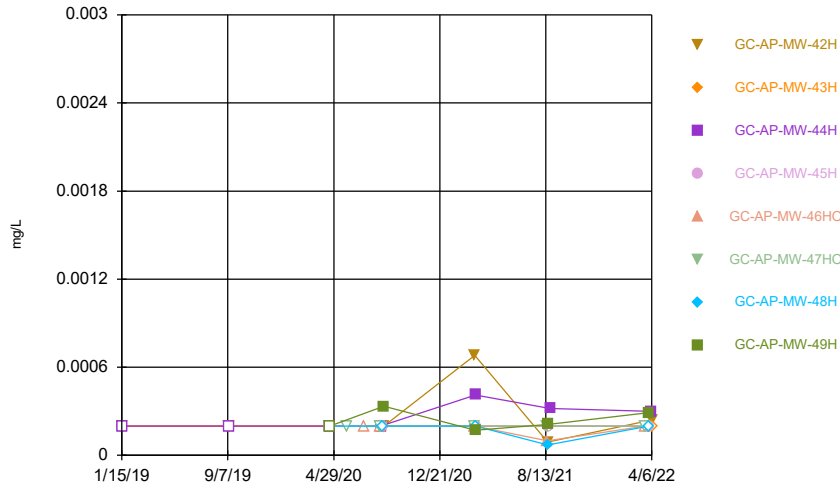
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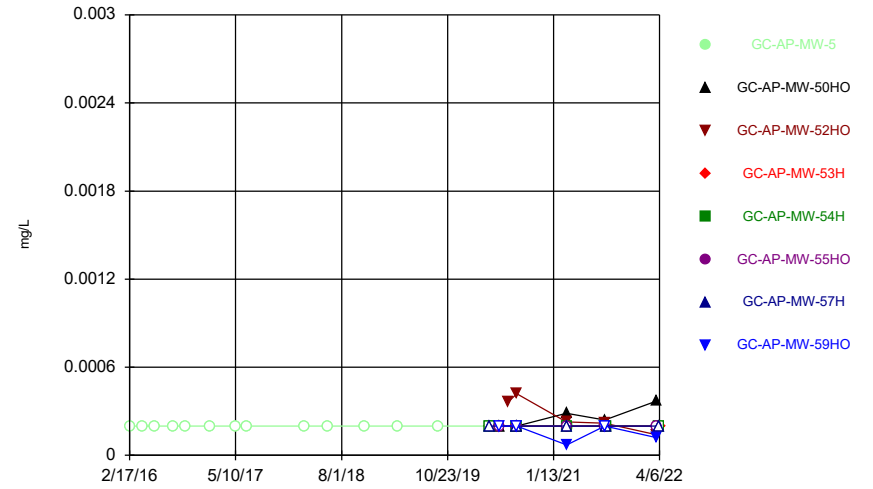
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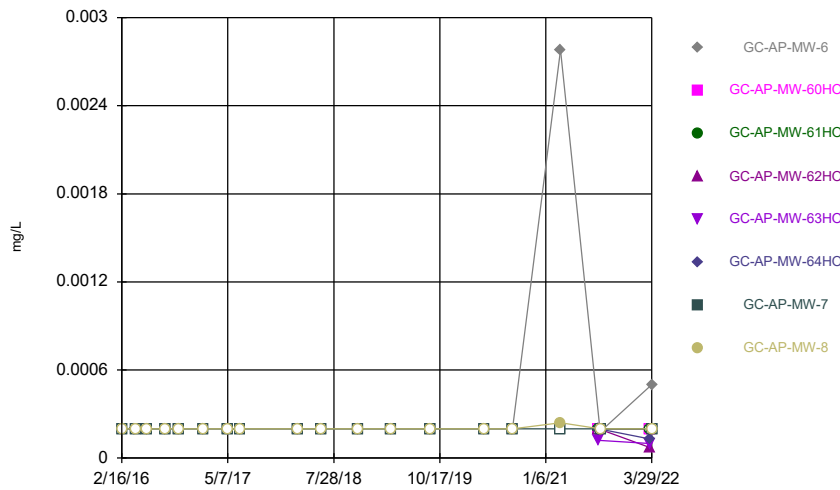
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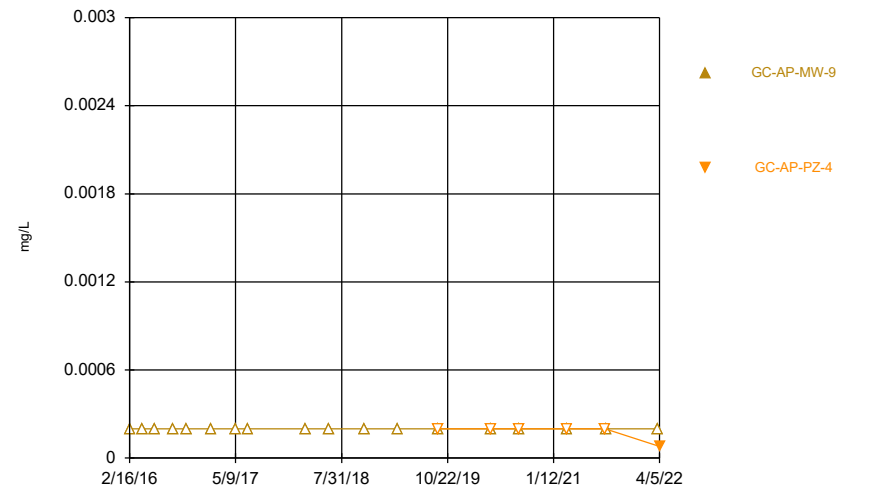
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Time Series



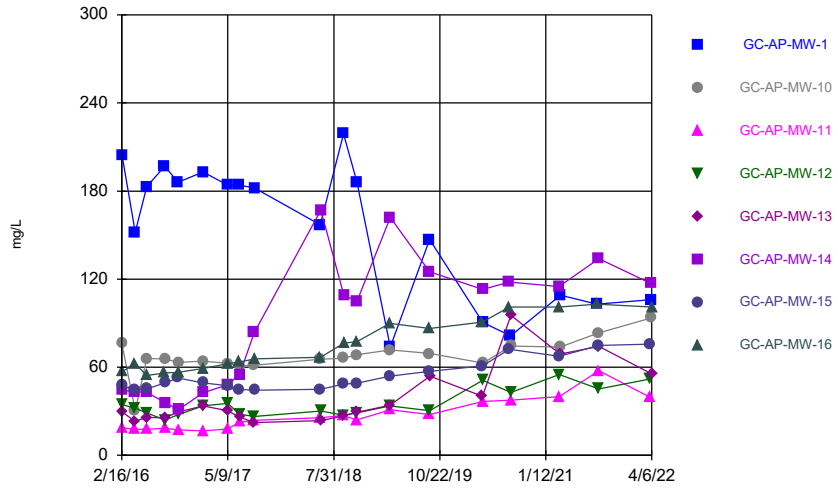
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



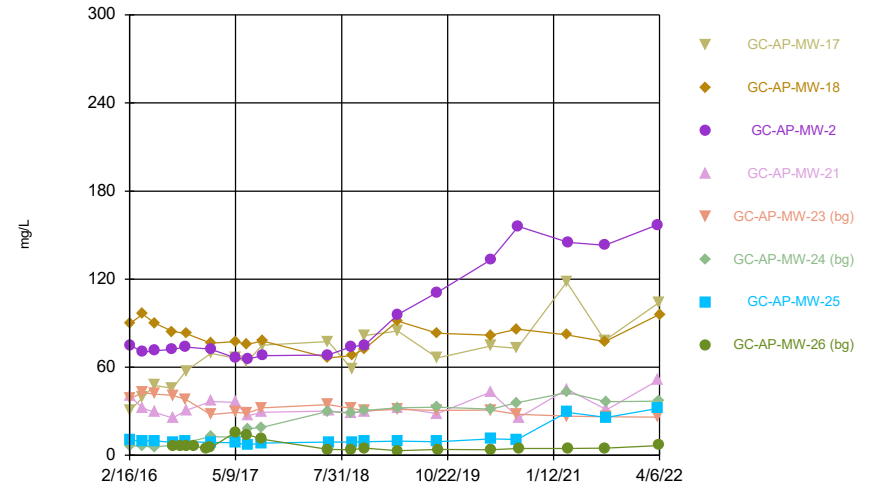
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Time Series



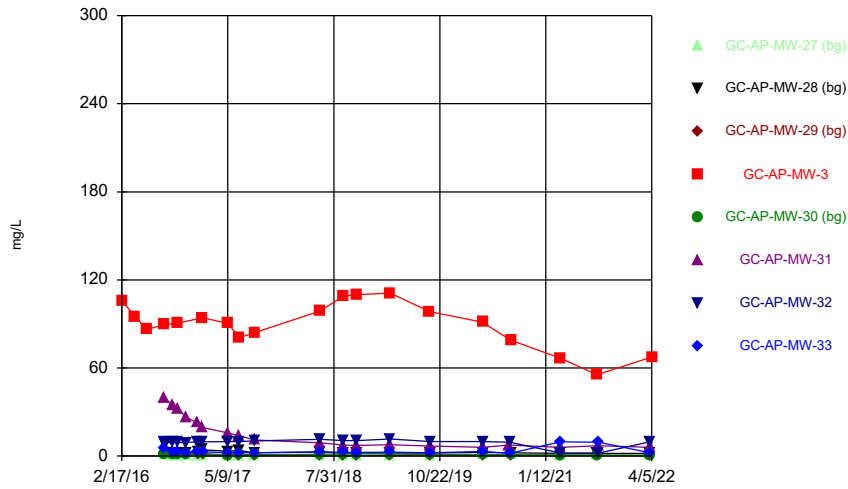
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Time Series



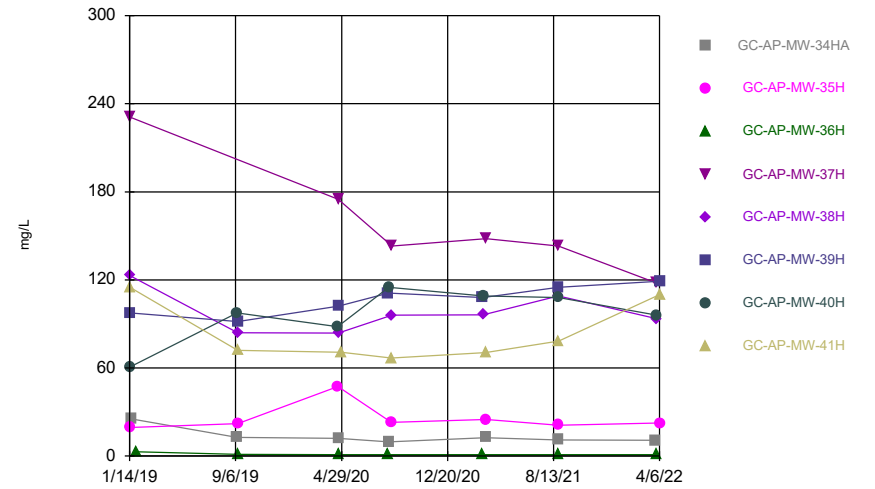
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



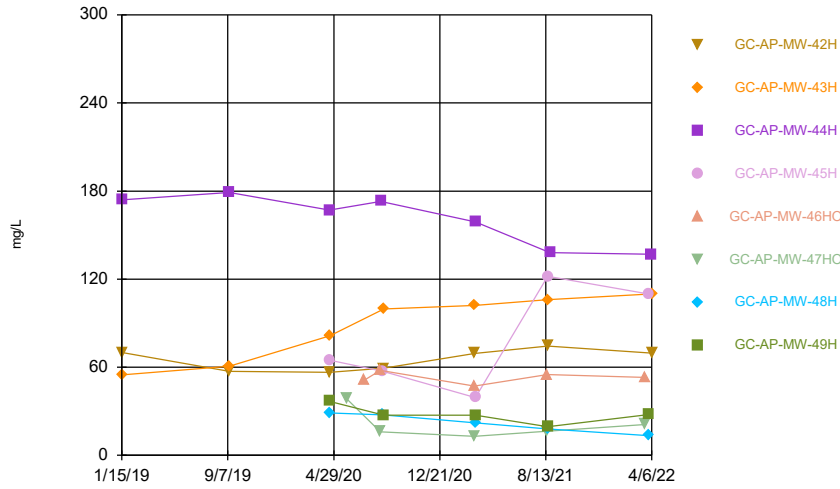
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Time Series



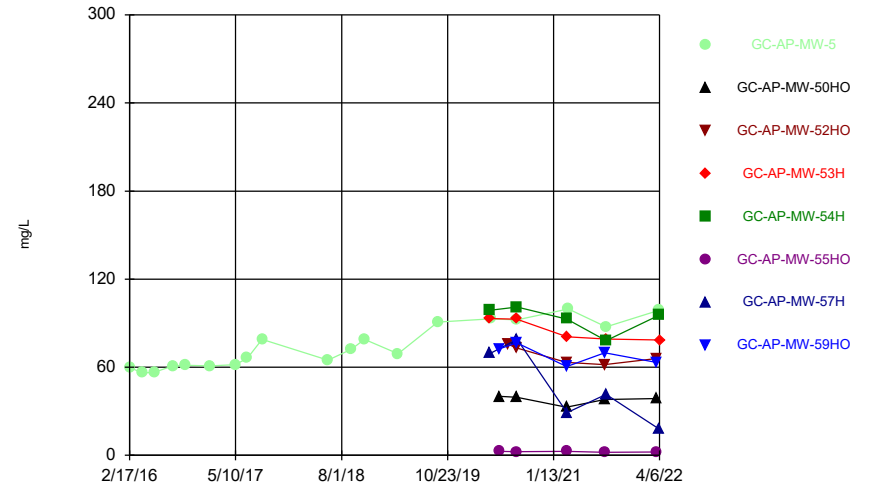
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Time Series



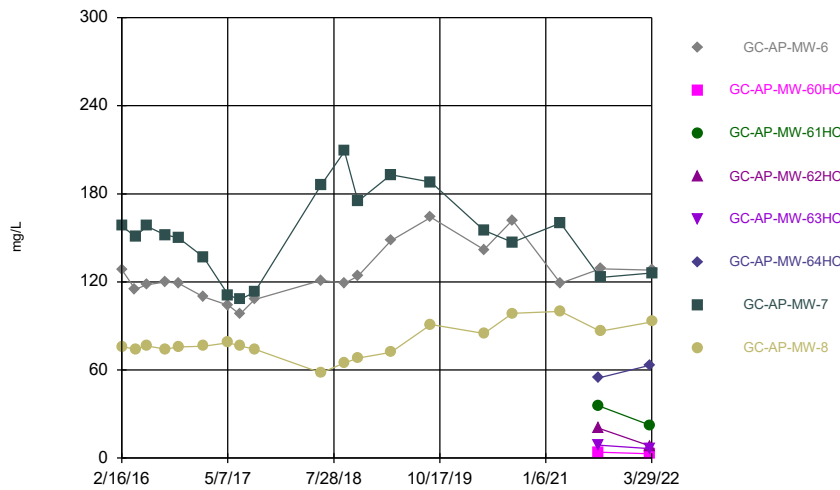
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Time Series



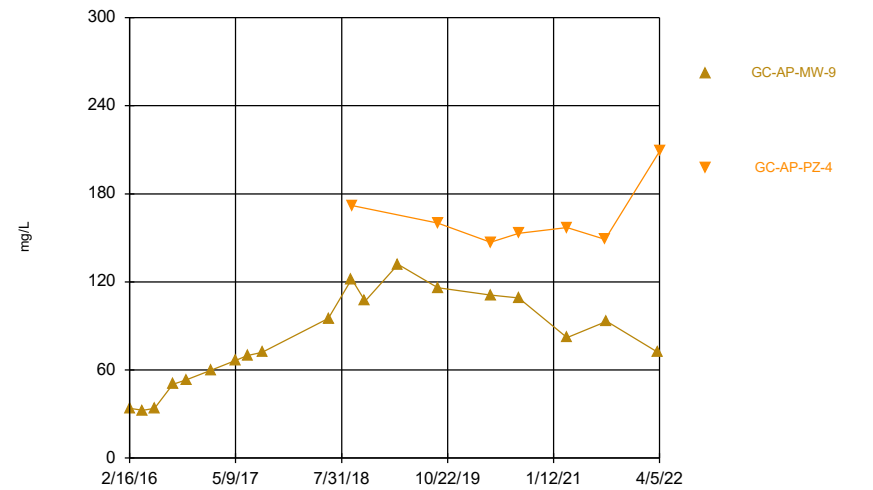
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Time Series



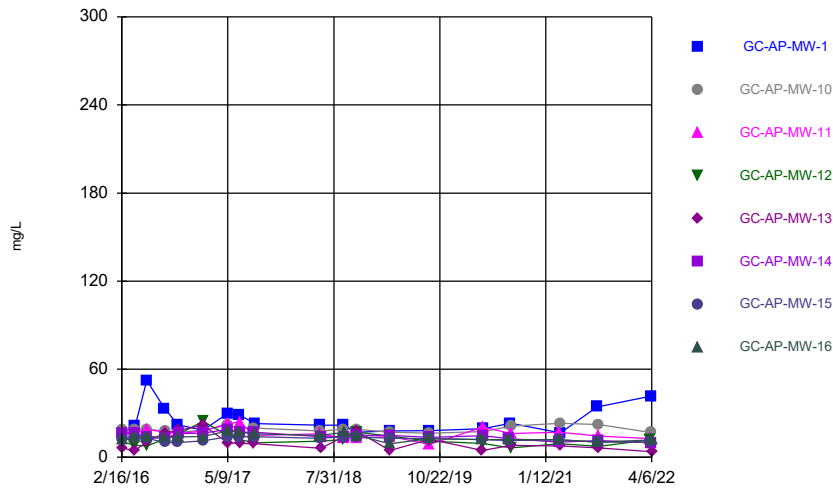
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Time Series



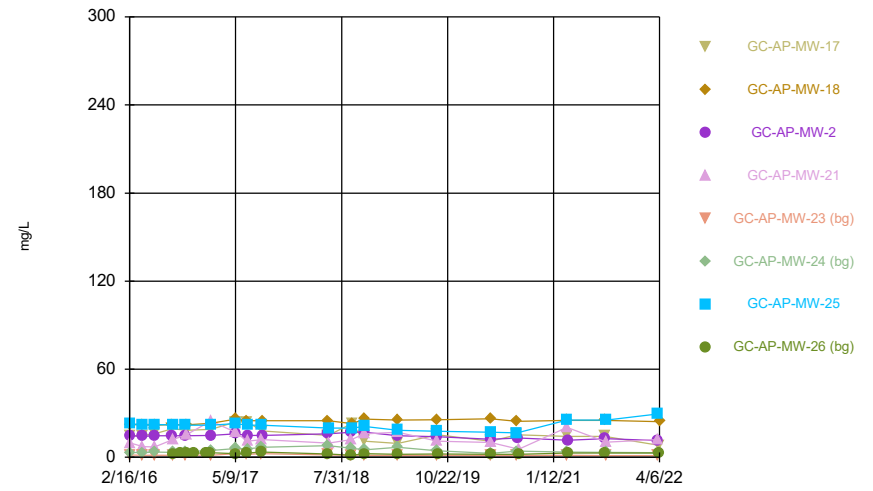
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Time Series



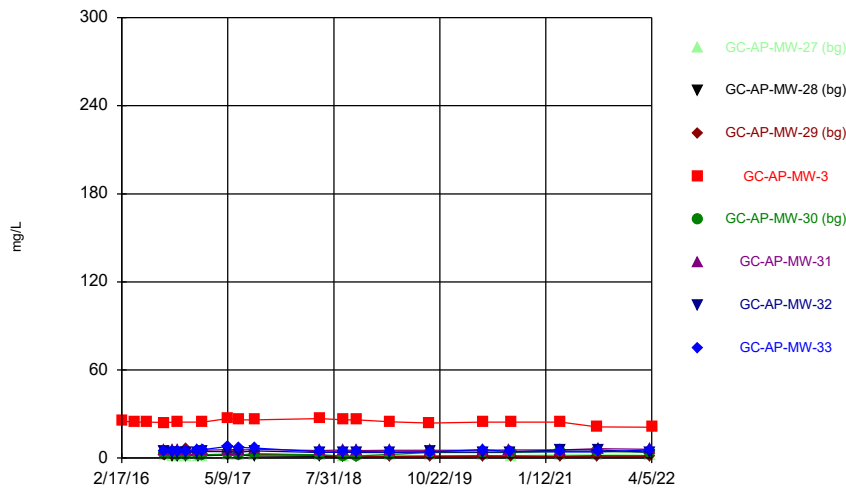
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Time Series



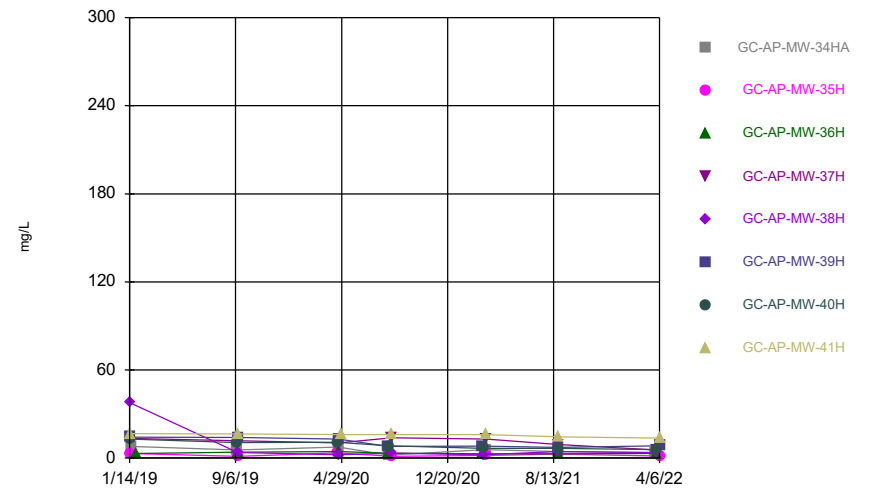
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Time Series



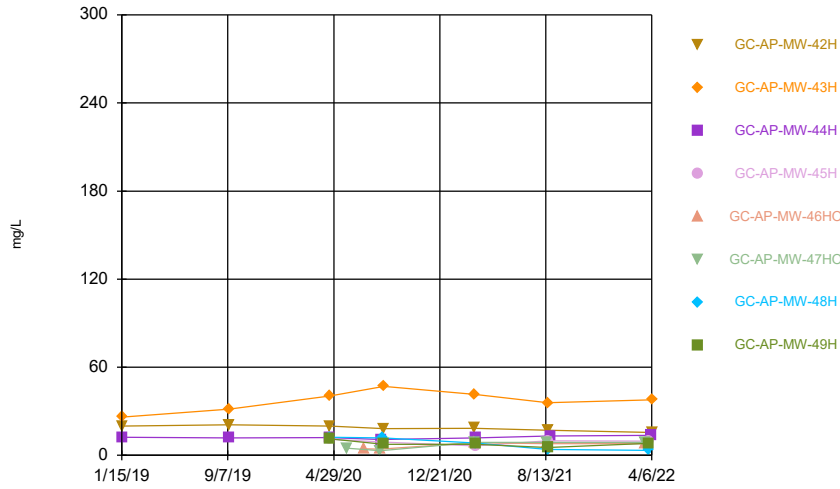
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Time Series



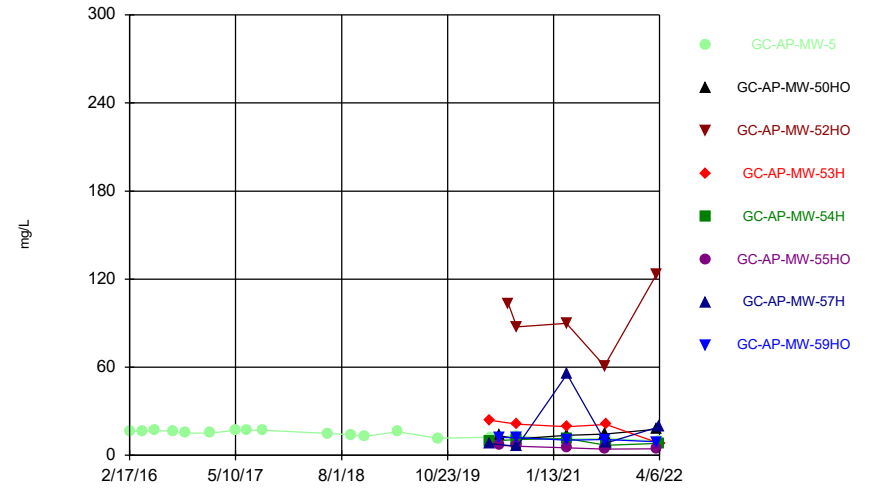
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Time Series



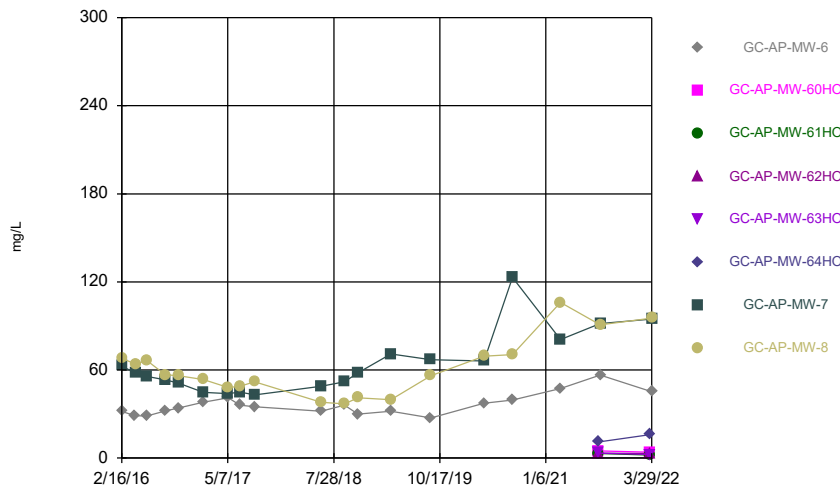
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Time Series



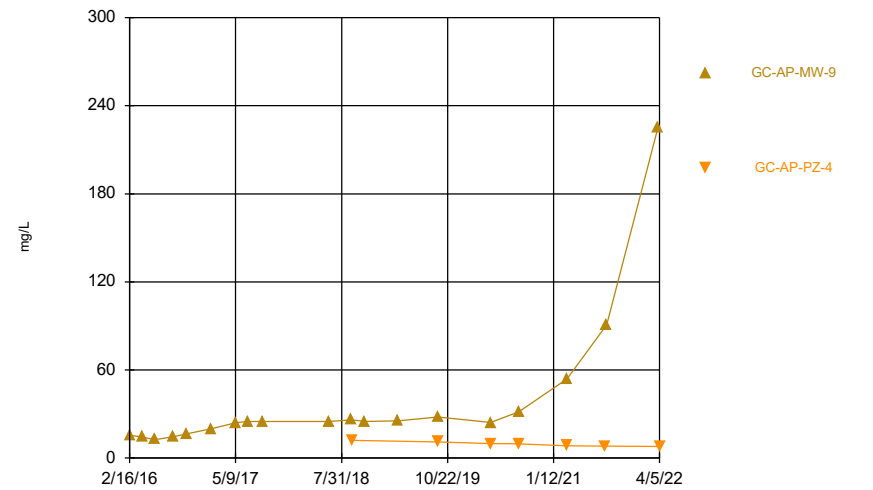
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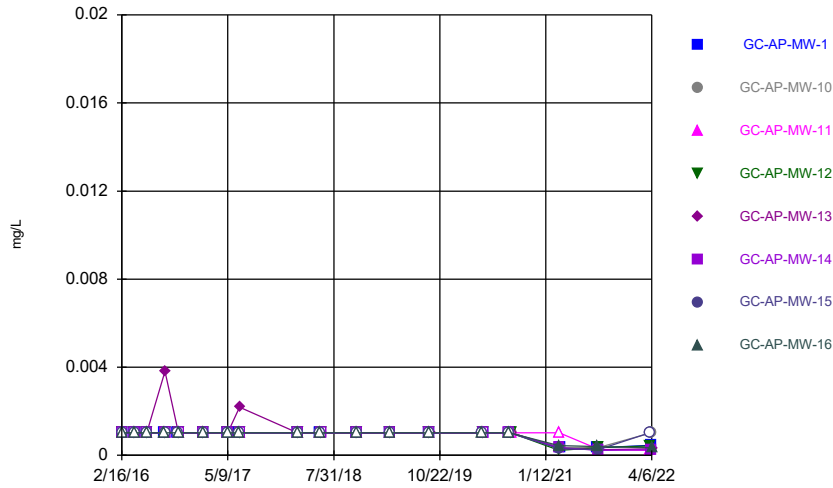
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Time Series



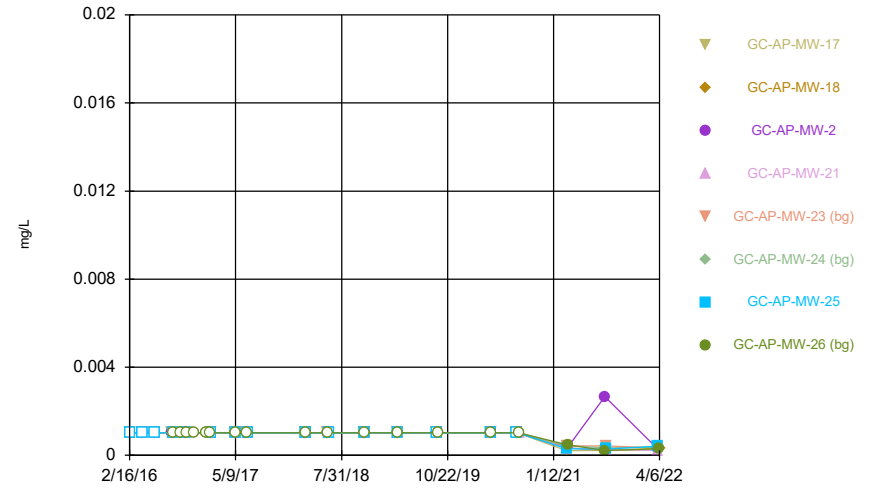
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Time Series



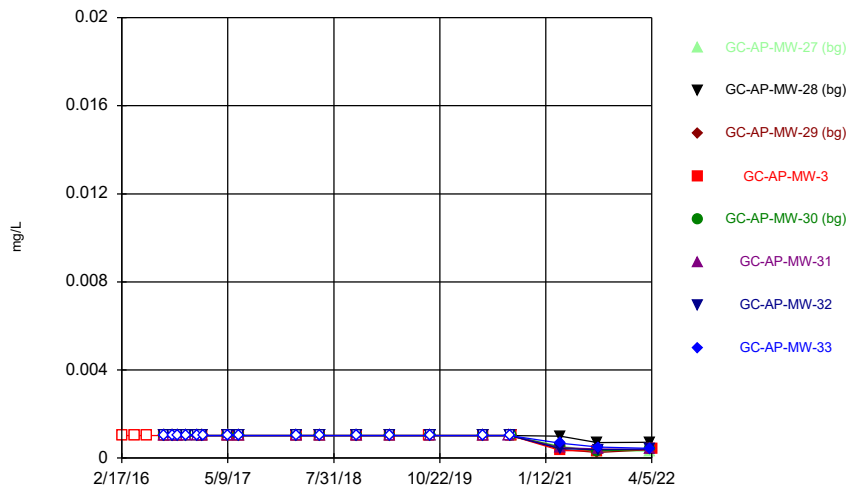
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Time Series



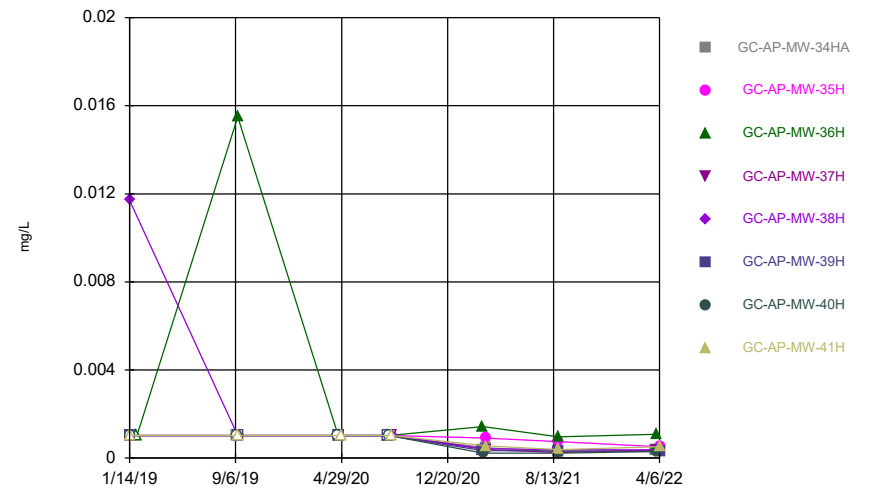
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Time Series



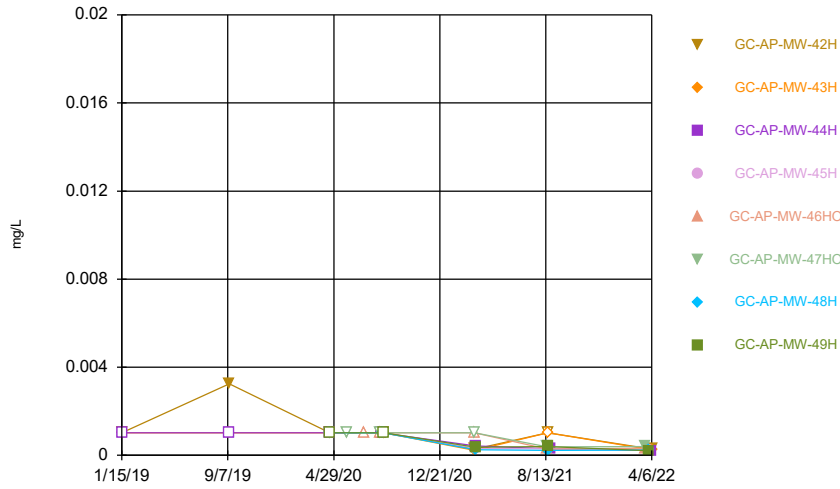
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Time Series



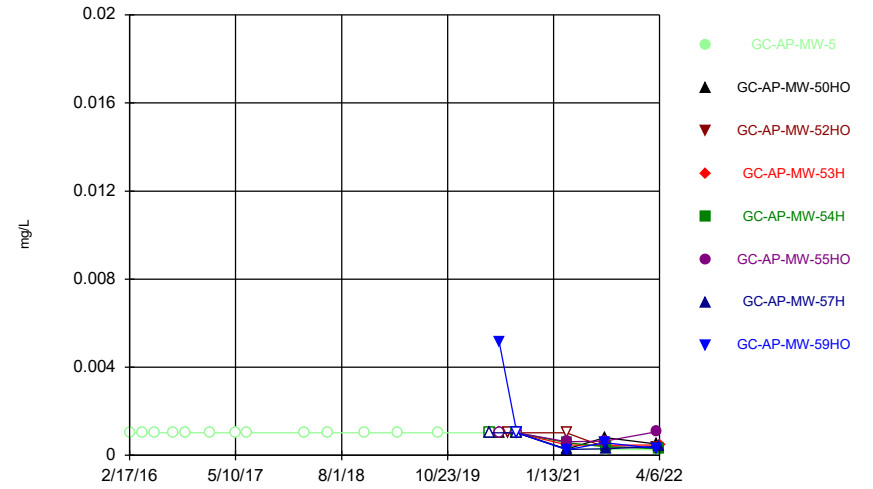
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Time Series



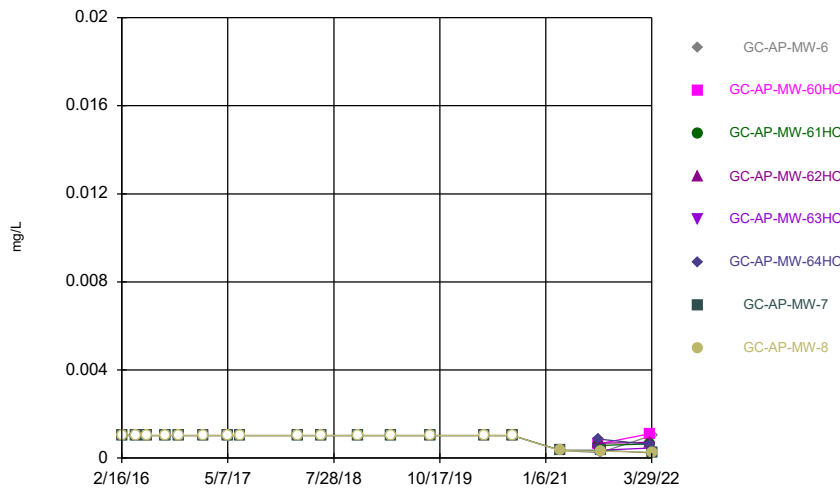
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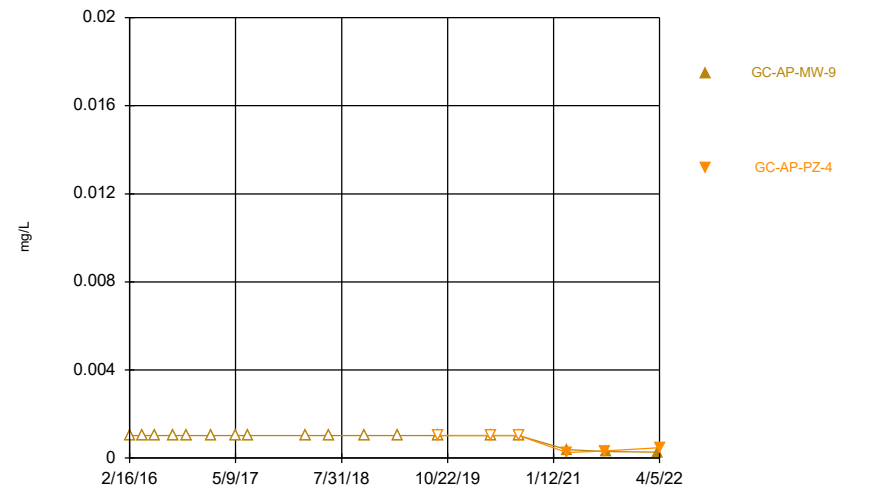
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Time Series



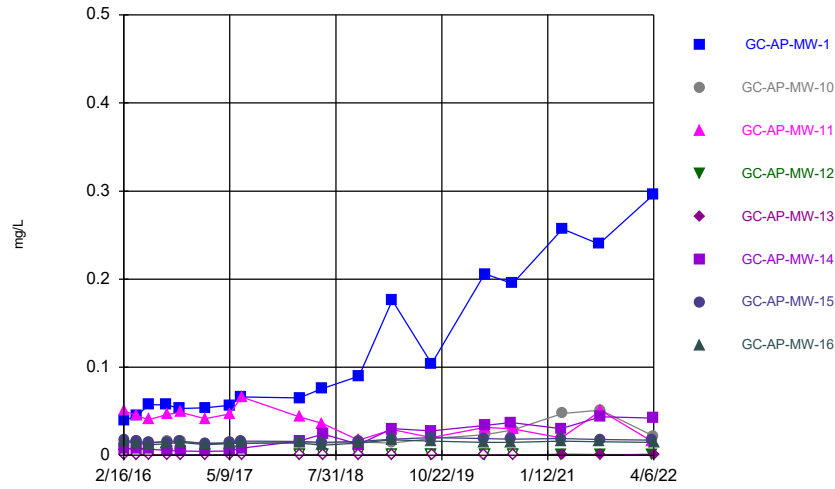
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Time Series



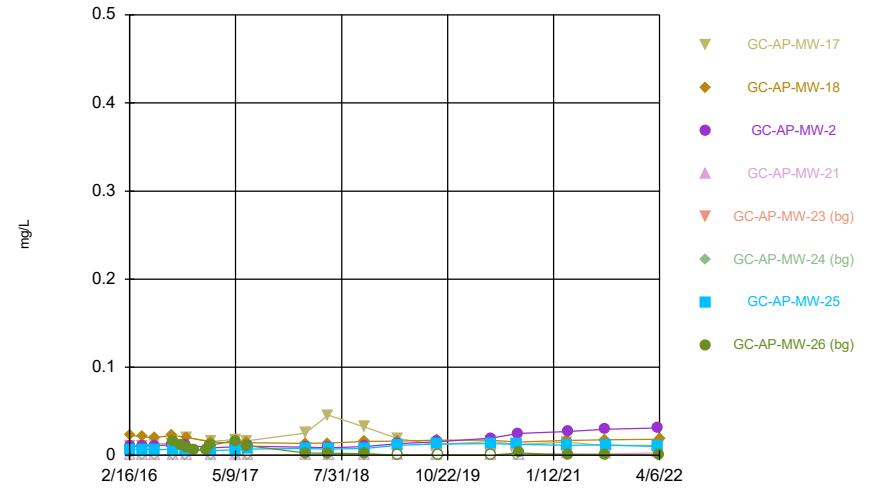
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Time Series



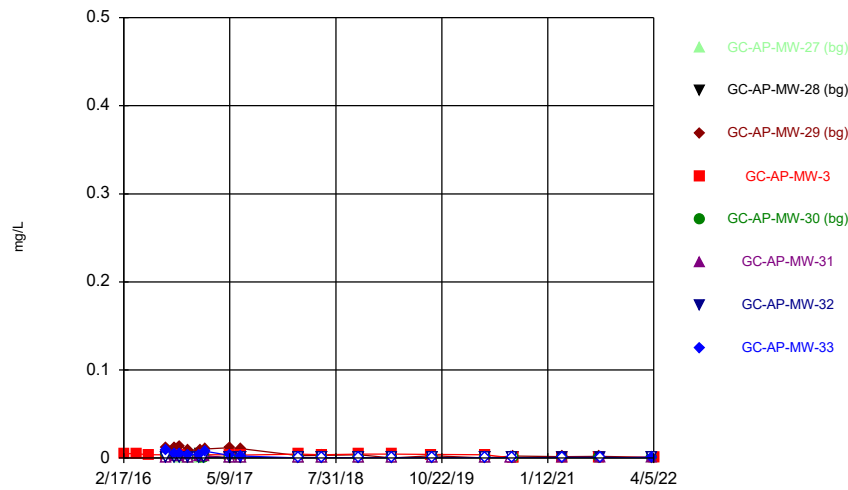
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Time Series



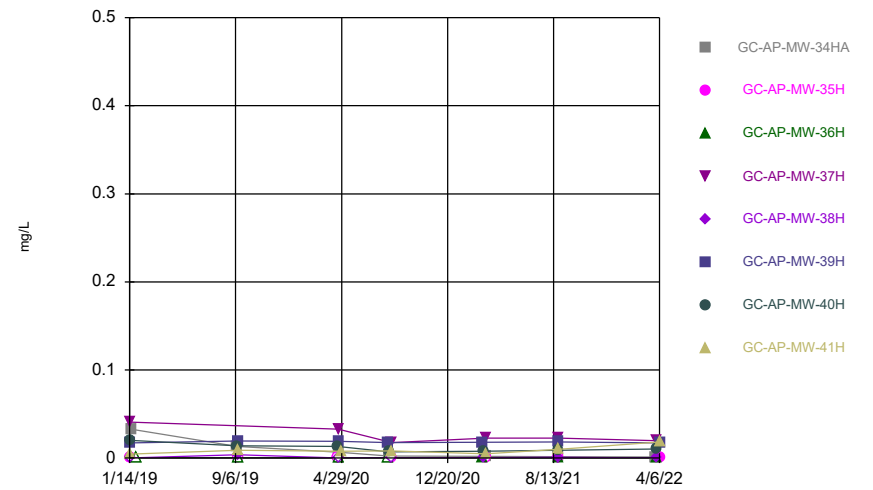
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Time Series



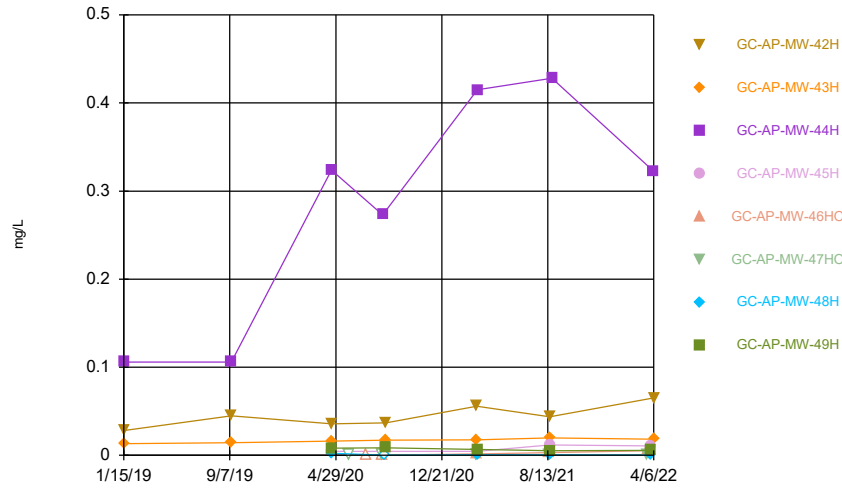
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Time Series



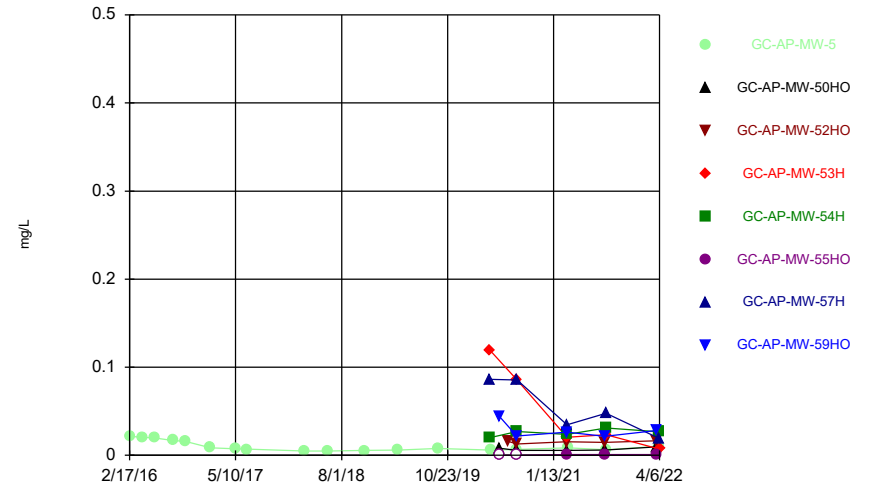
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Time Series



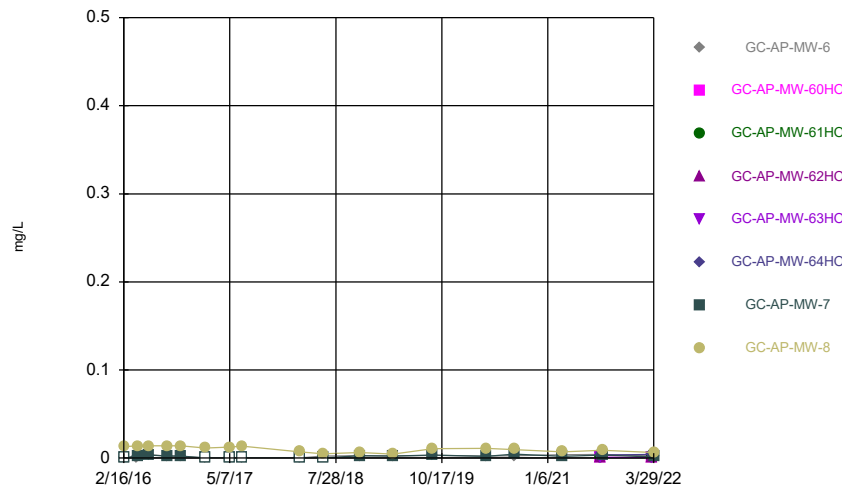
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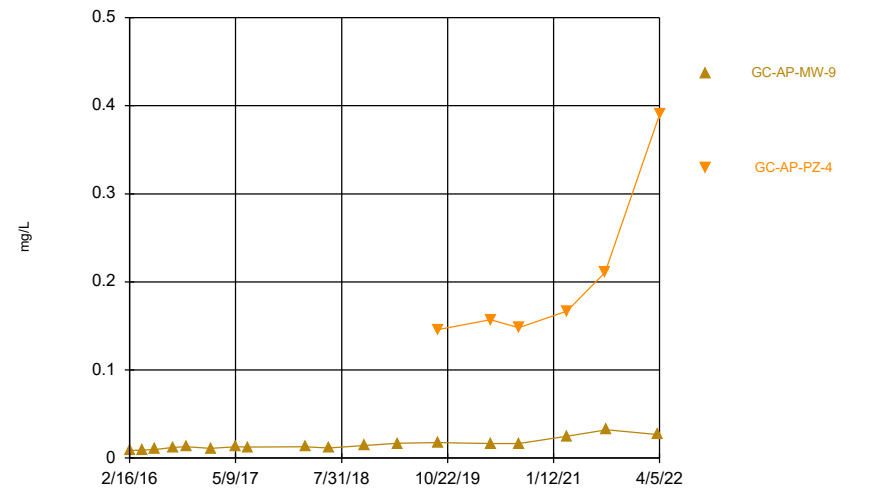
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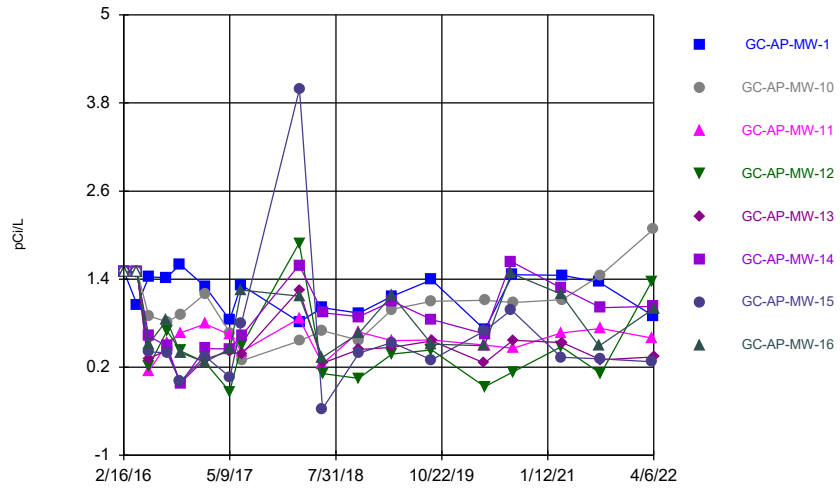
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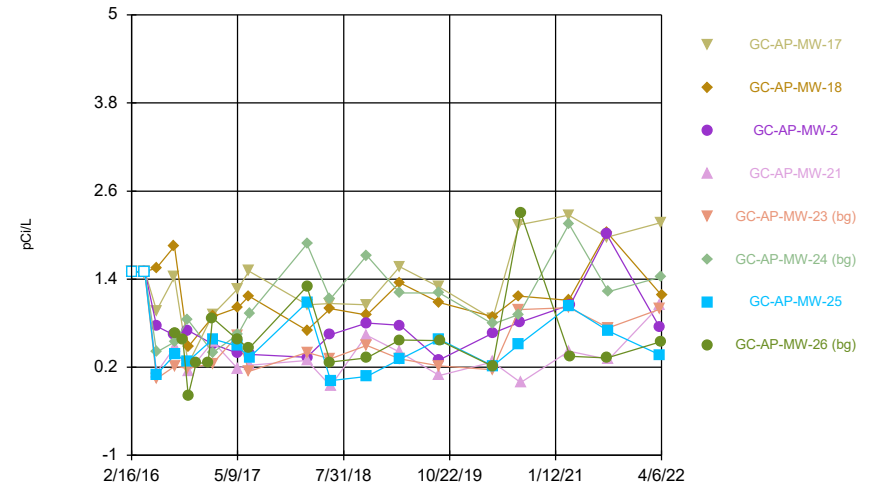
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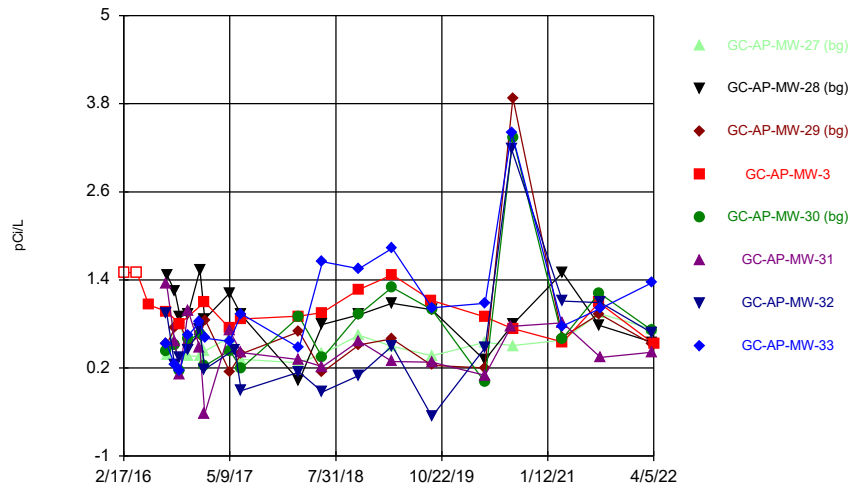
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Time Series



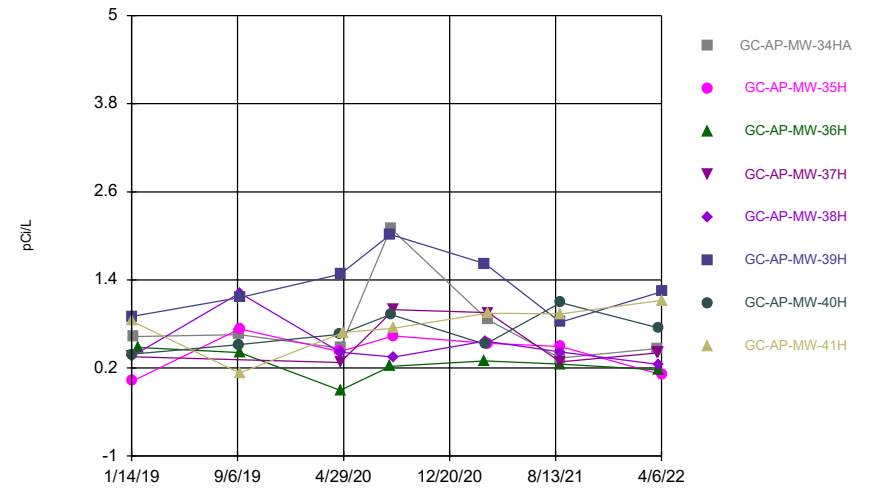
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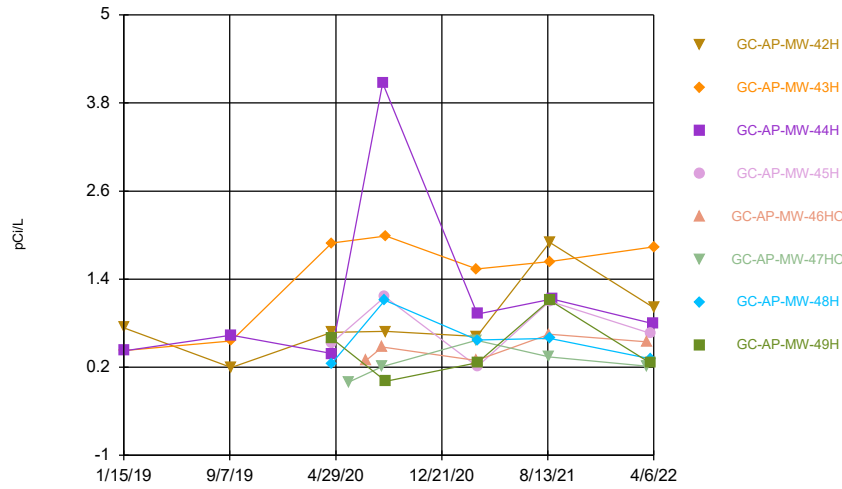
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Time Series



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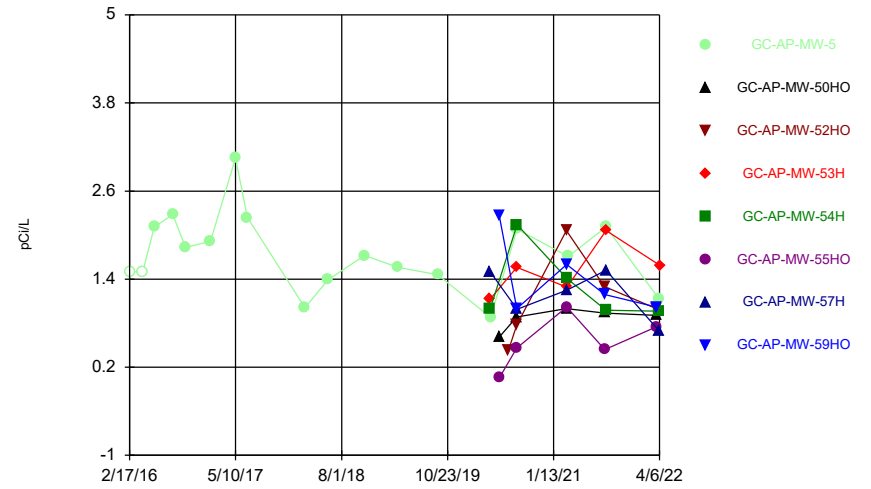
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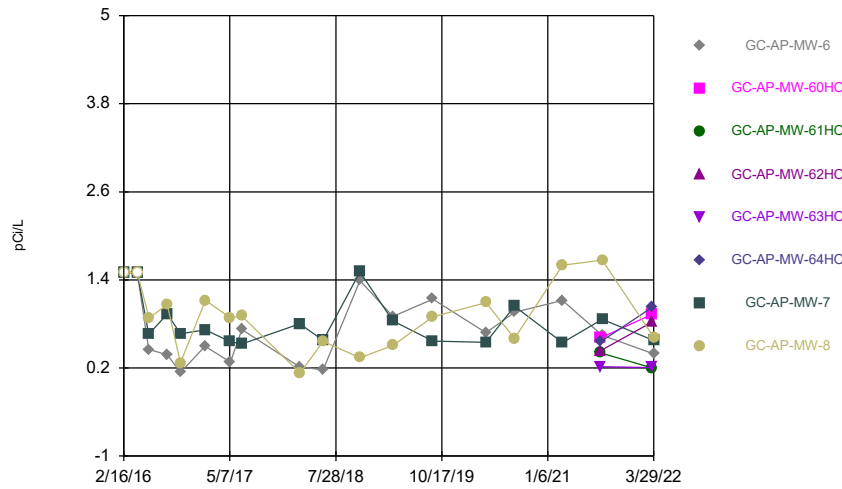
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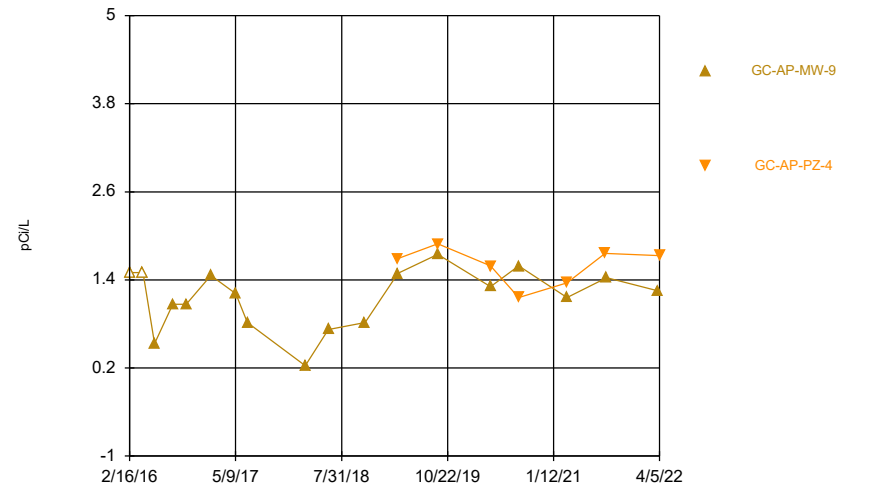
Time Series



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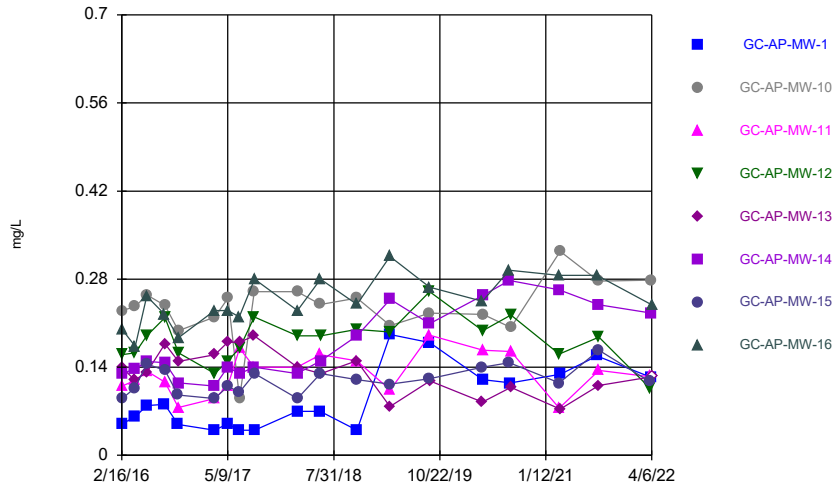
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Time Series



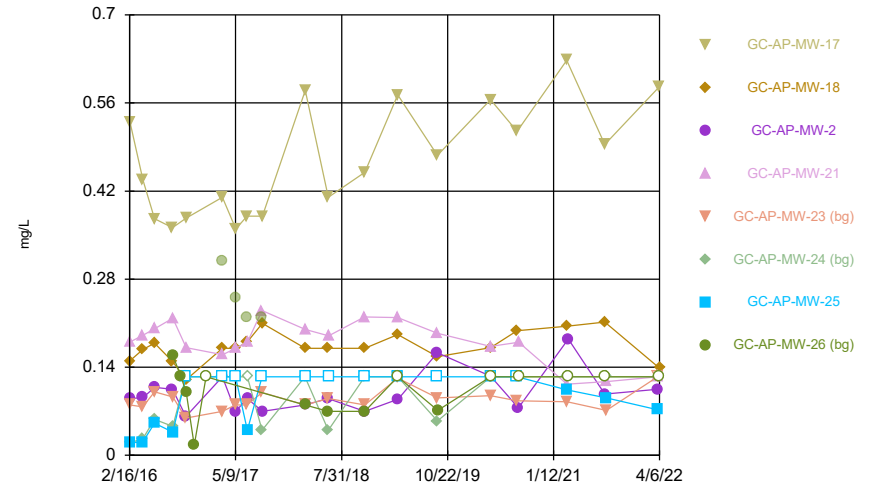
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Time Series



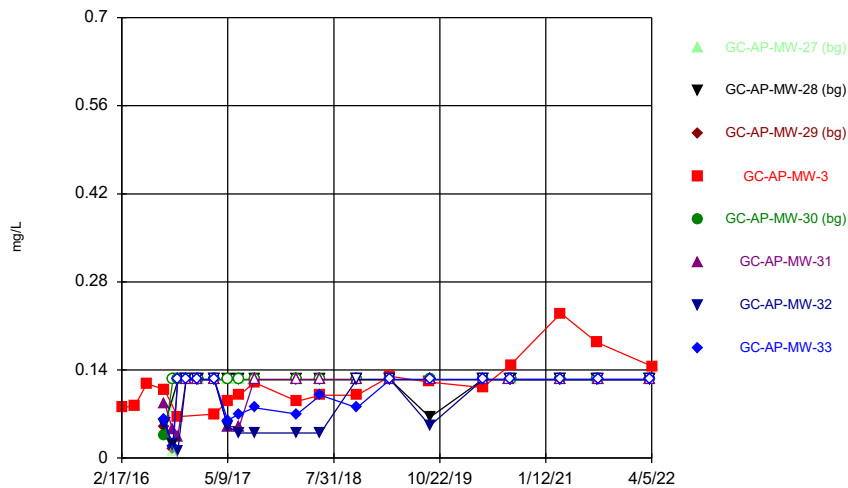
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Time Series



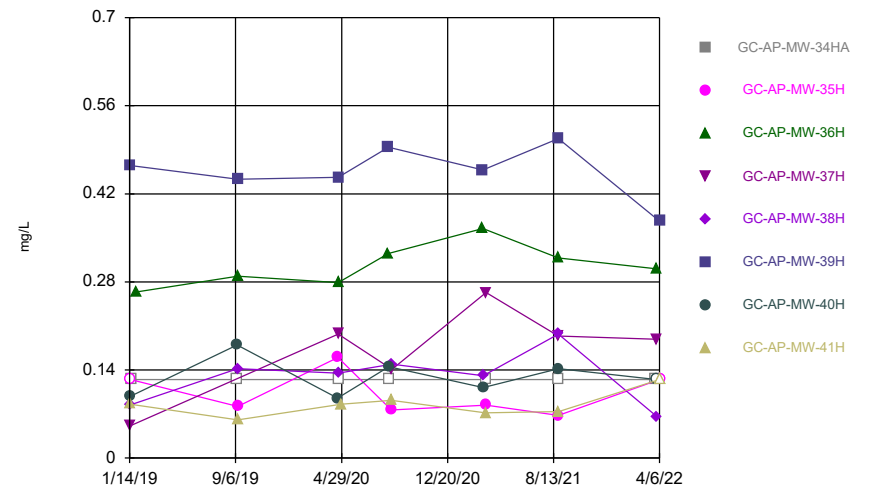
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Time Series



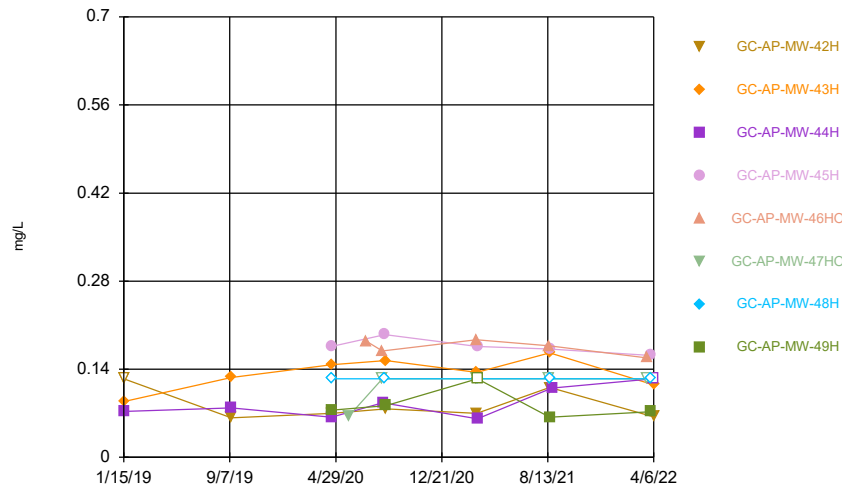
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Time Series



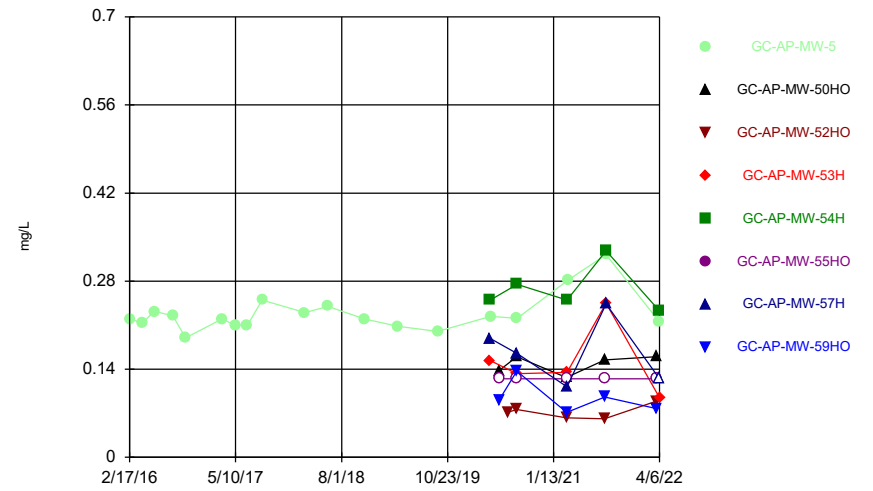
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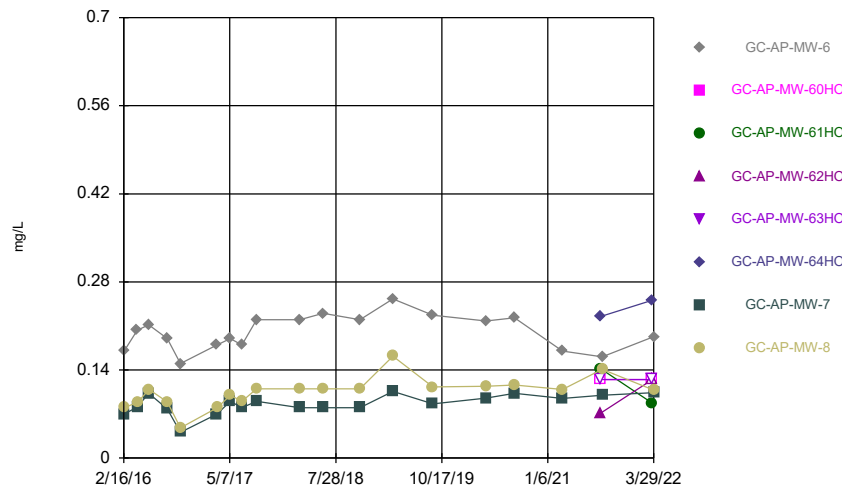
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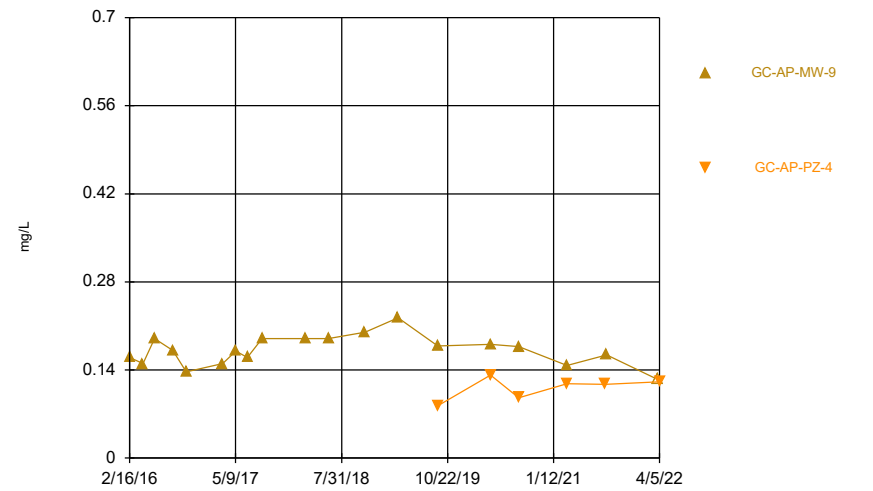
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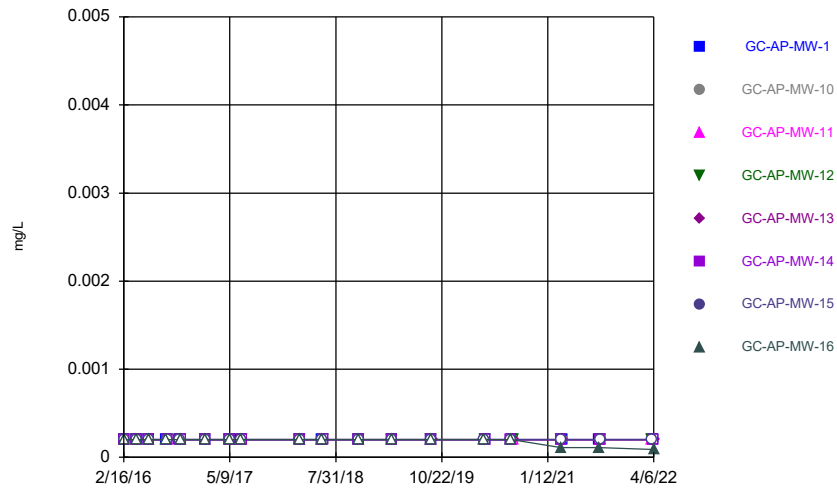
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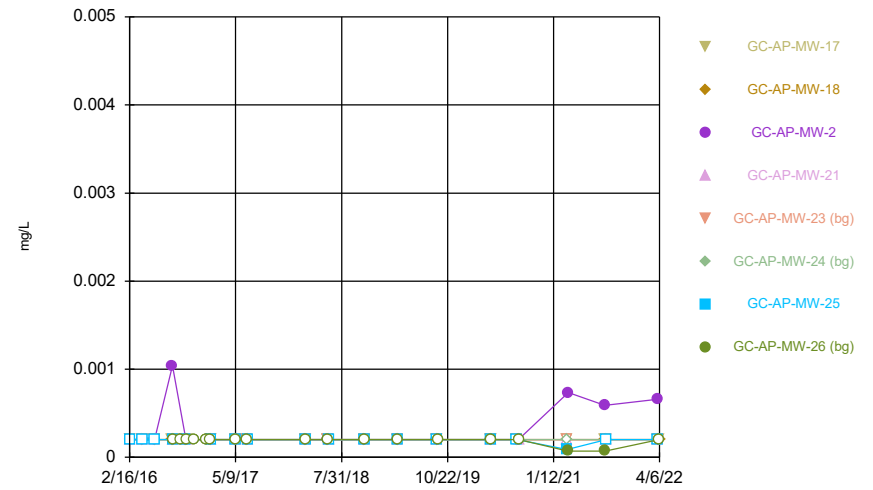
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Time Series



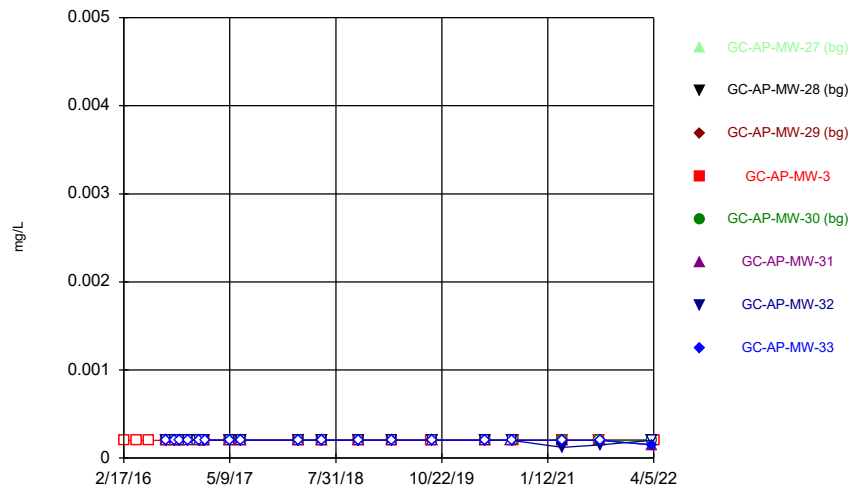
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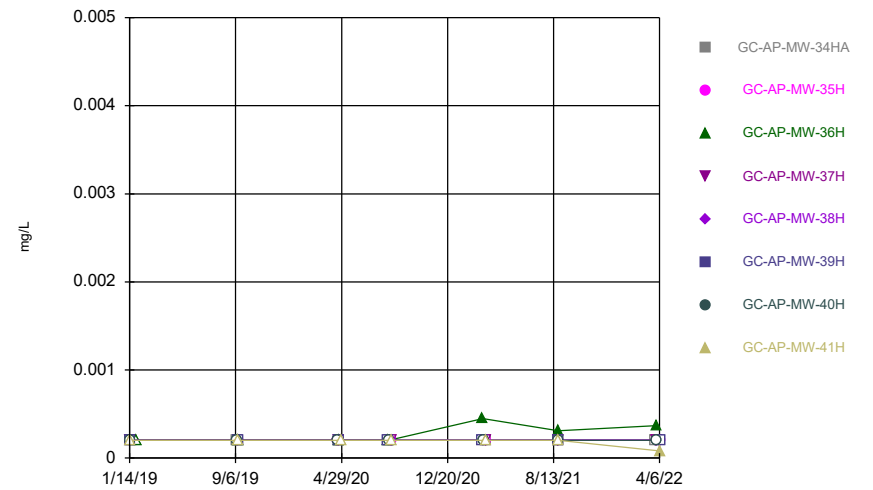
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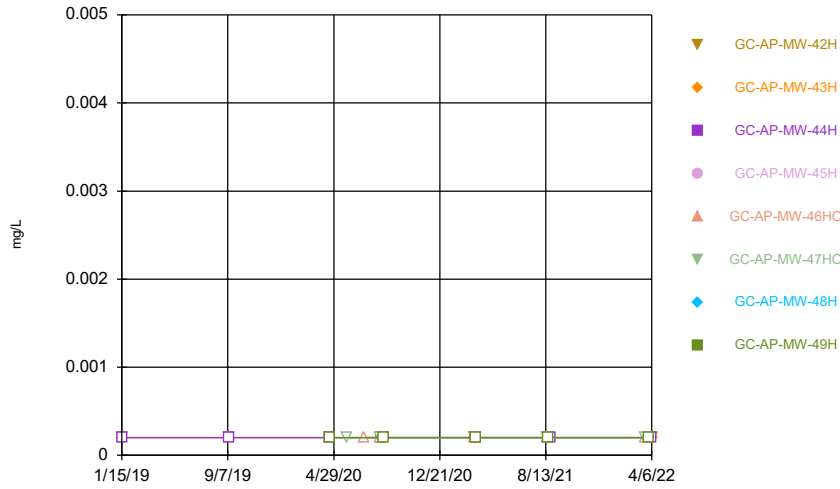
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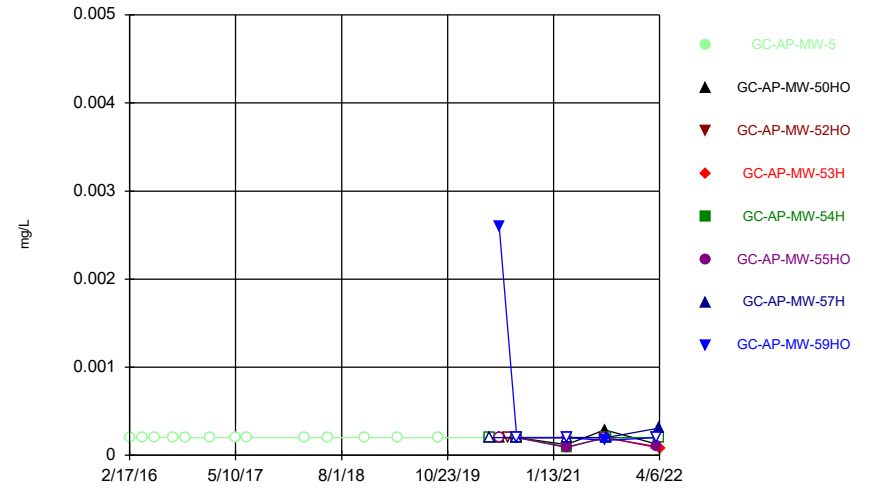
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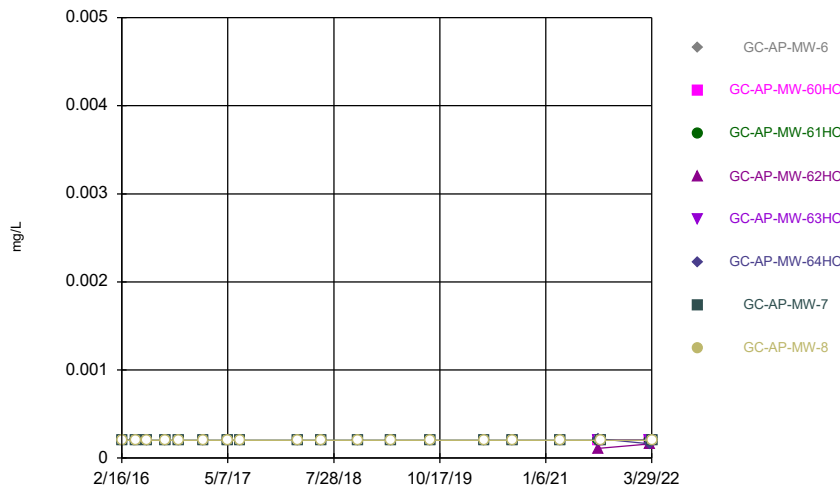
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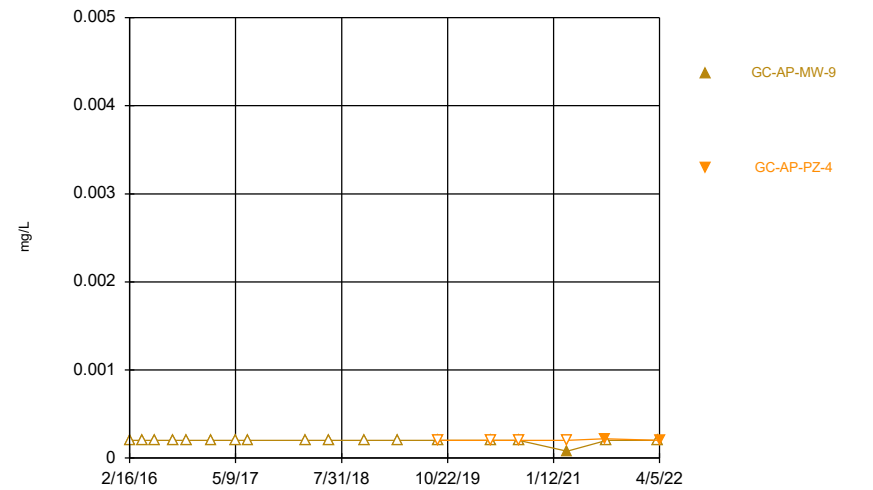
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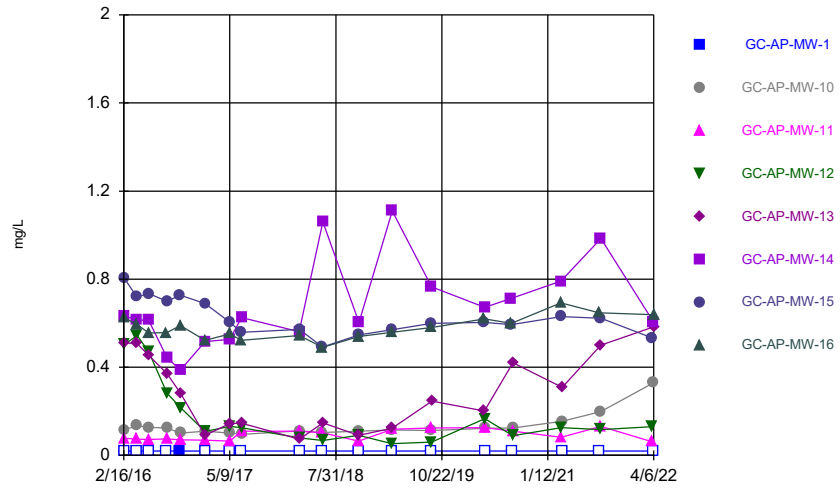
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Time Series



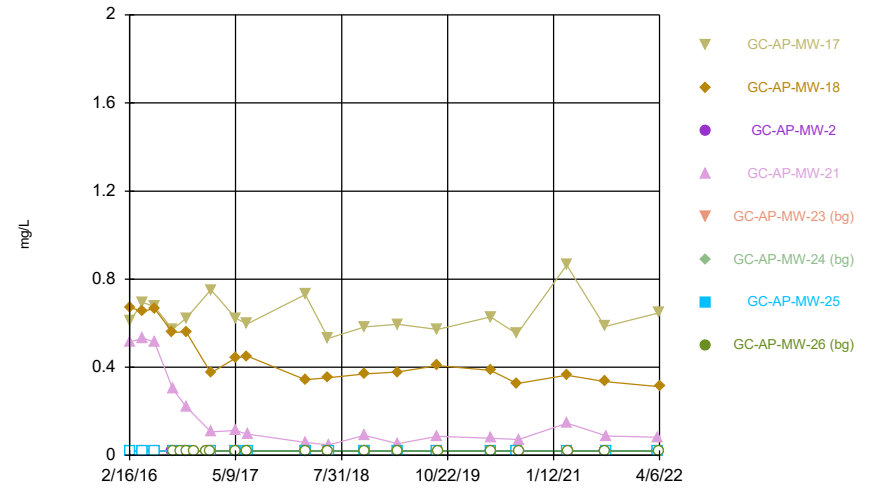
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Time Series



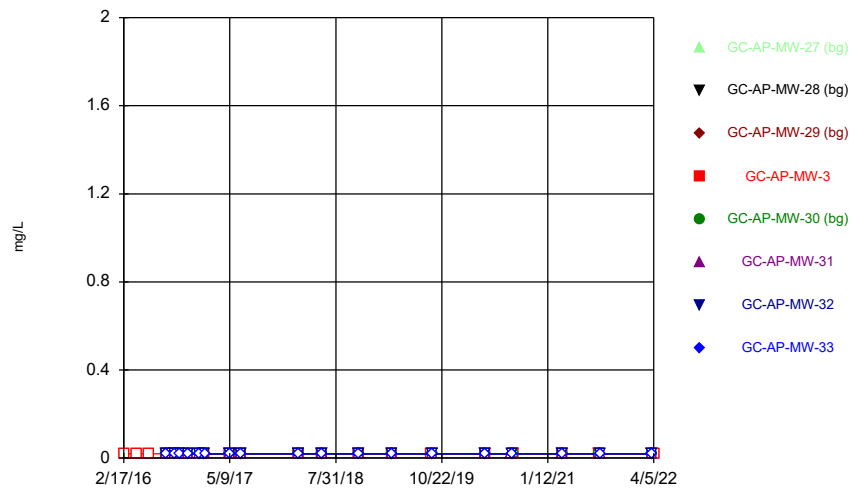
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Time Series



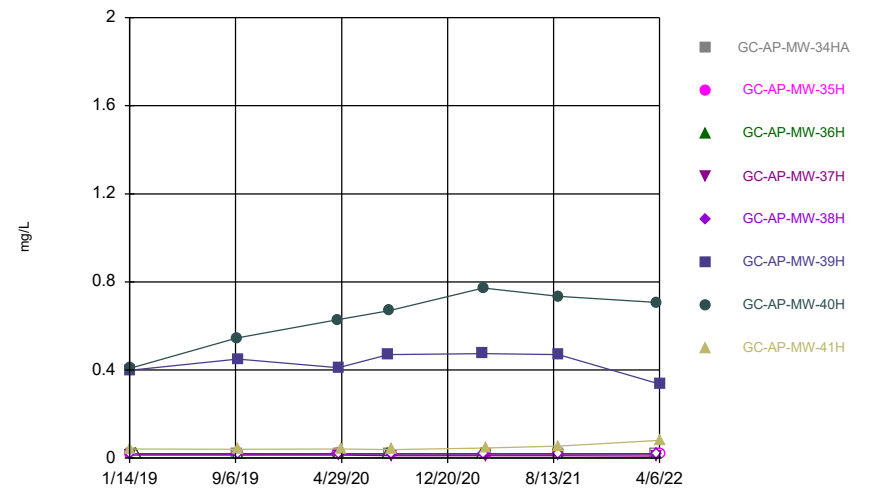
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Time Series



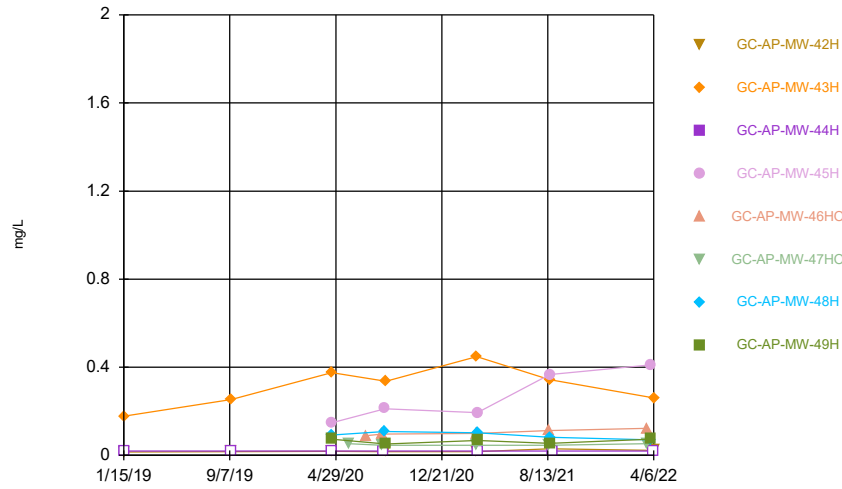
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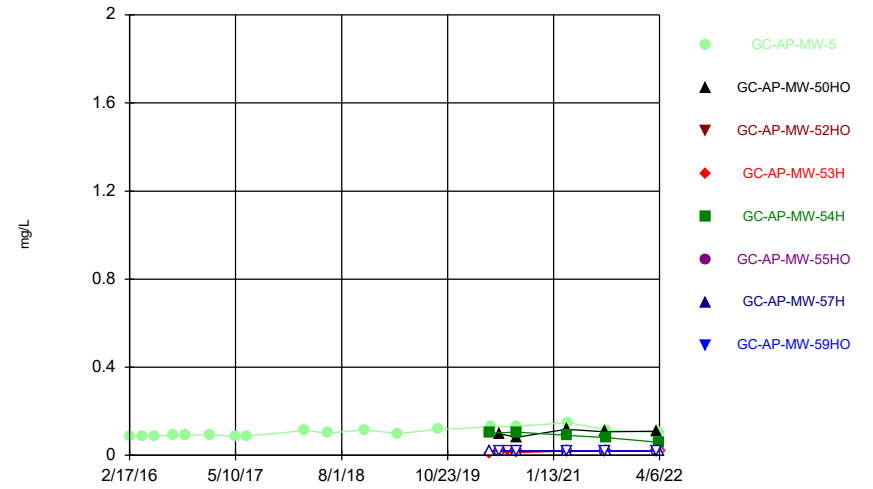
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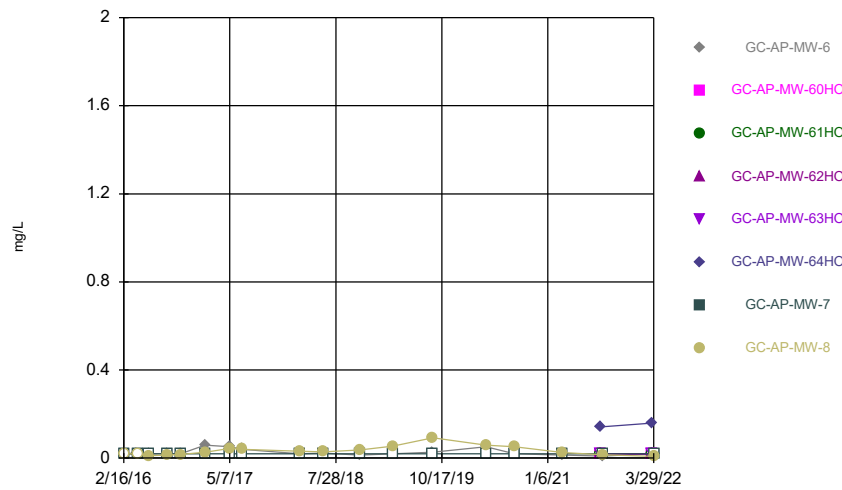
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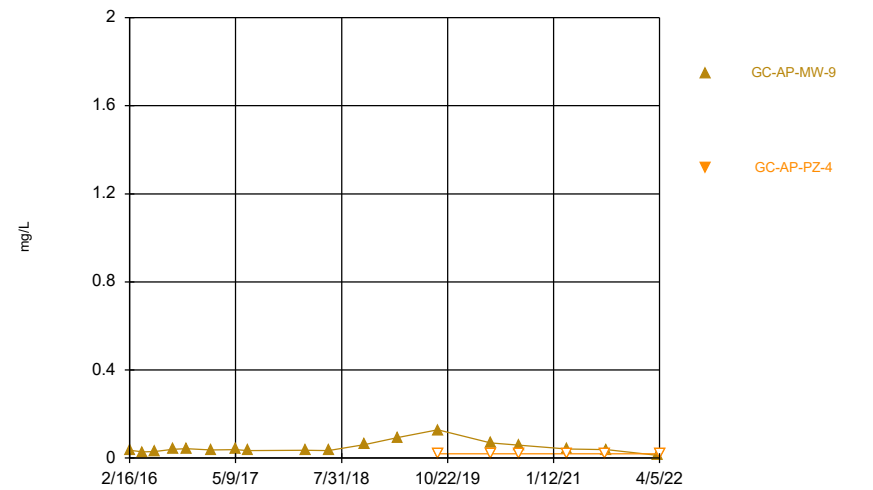
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Time Series



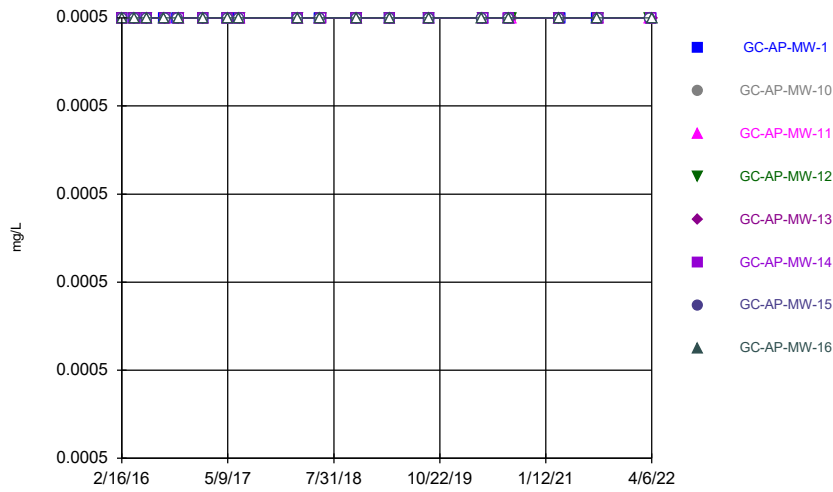
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



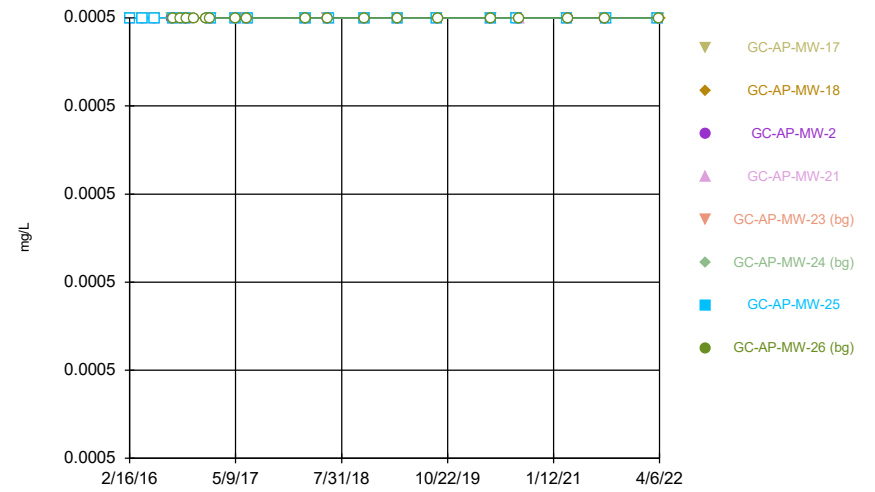
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Time Series



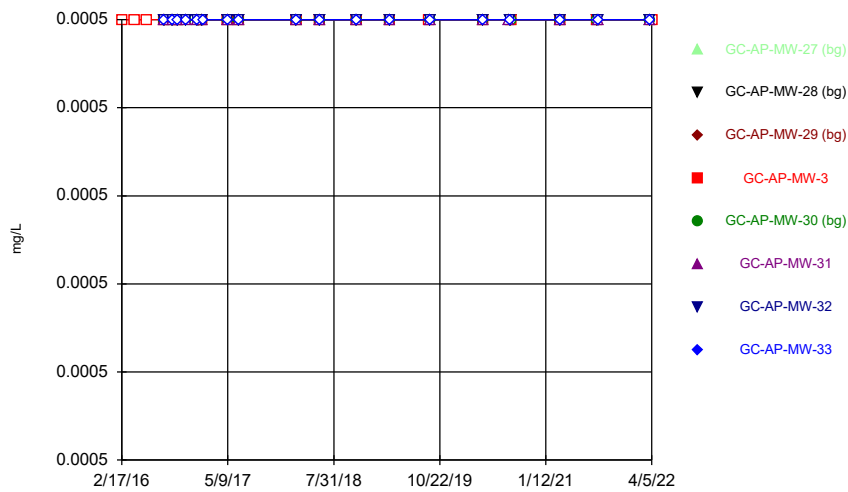
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Time Series



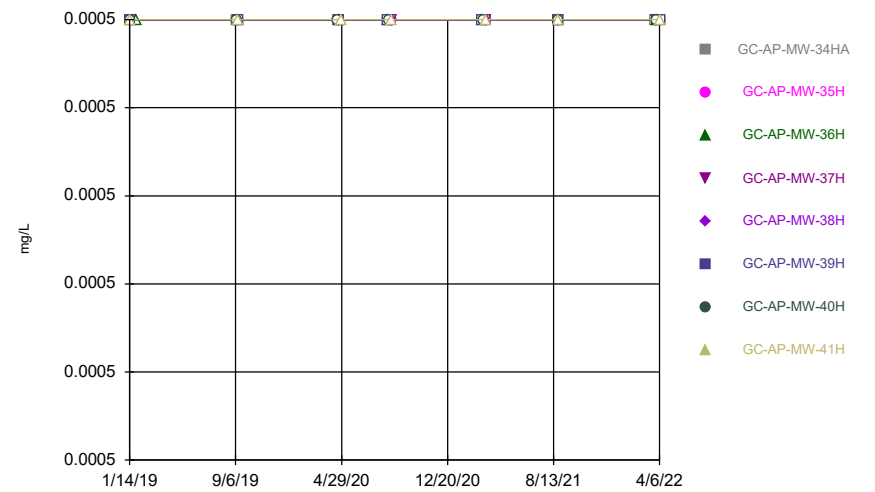
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Time Series



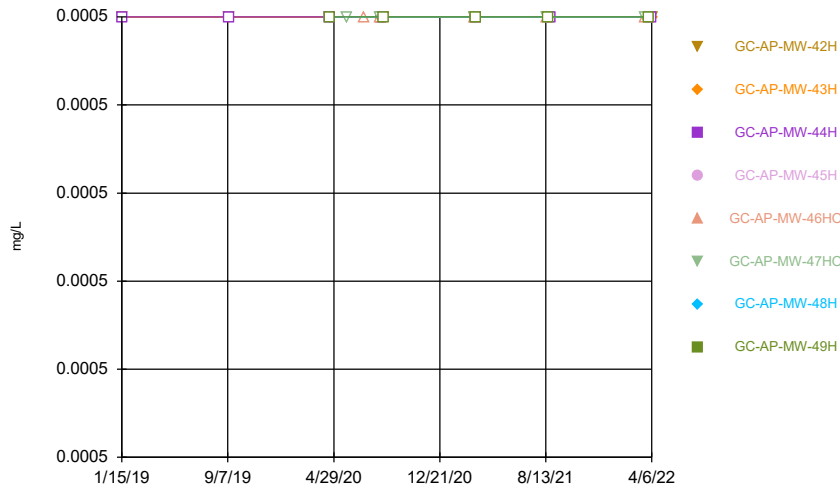
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Time Series



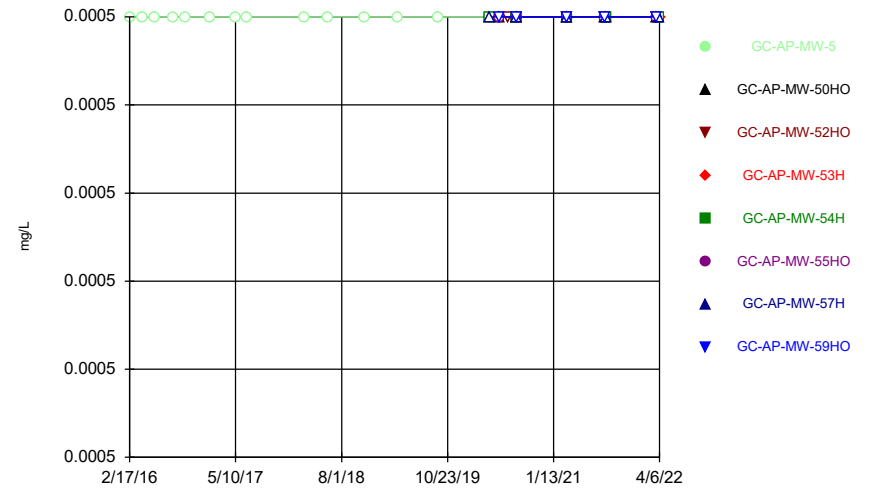
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Time Series



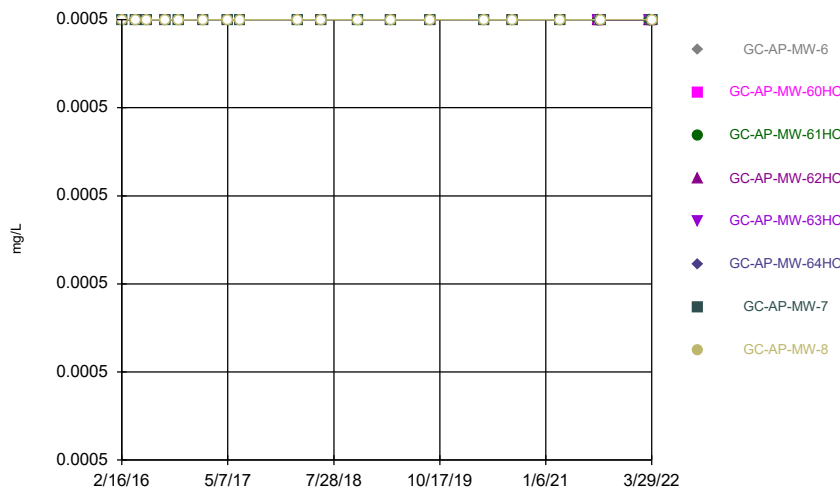
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Time Series



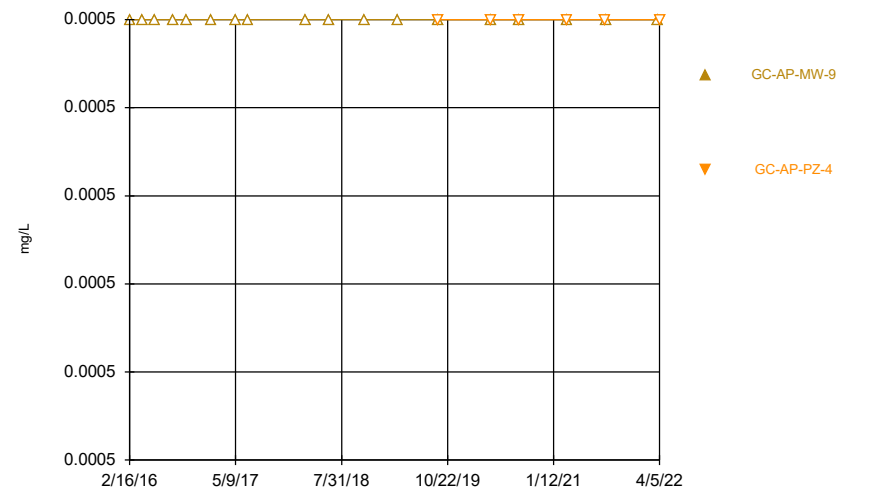
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Time Series



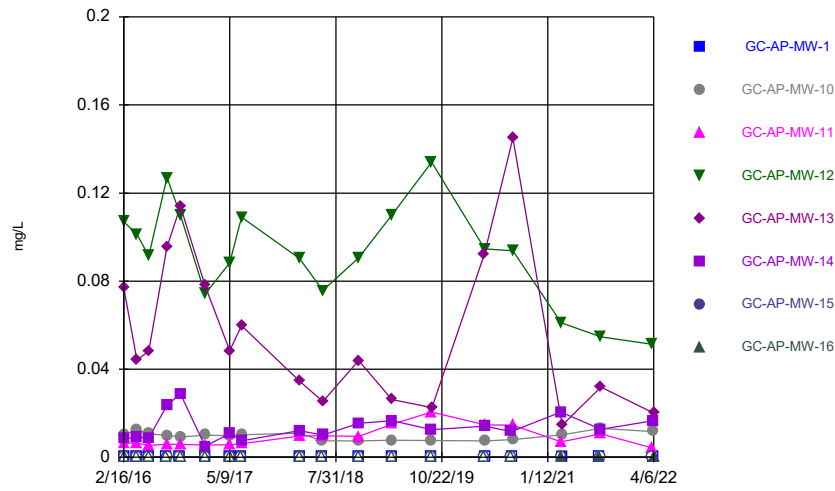
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Time Series



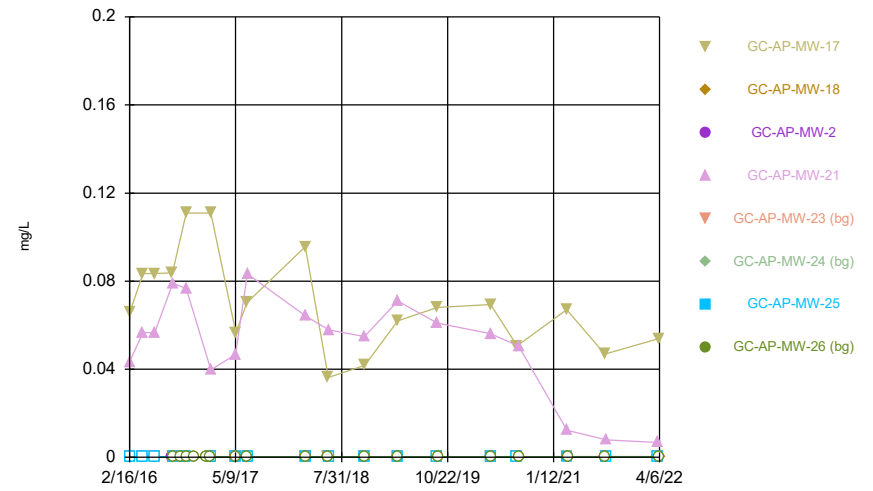
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Time Series



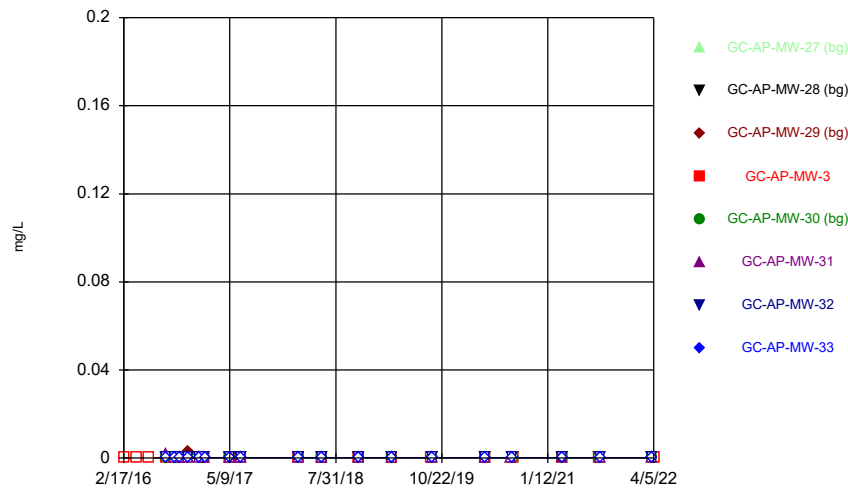
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



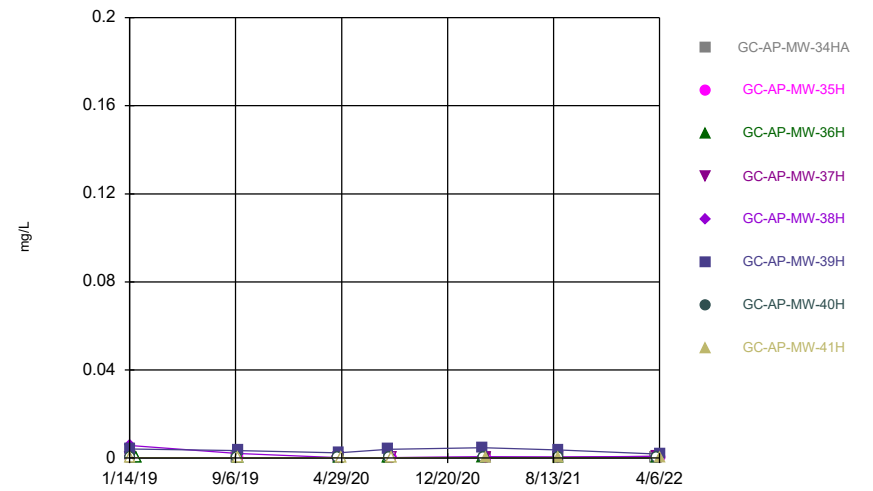
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Time Series



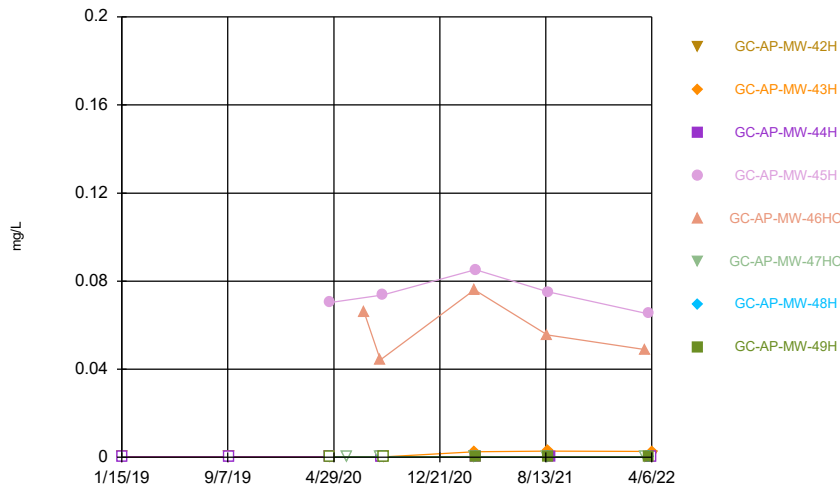
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Time Series



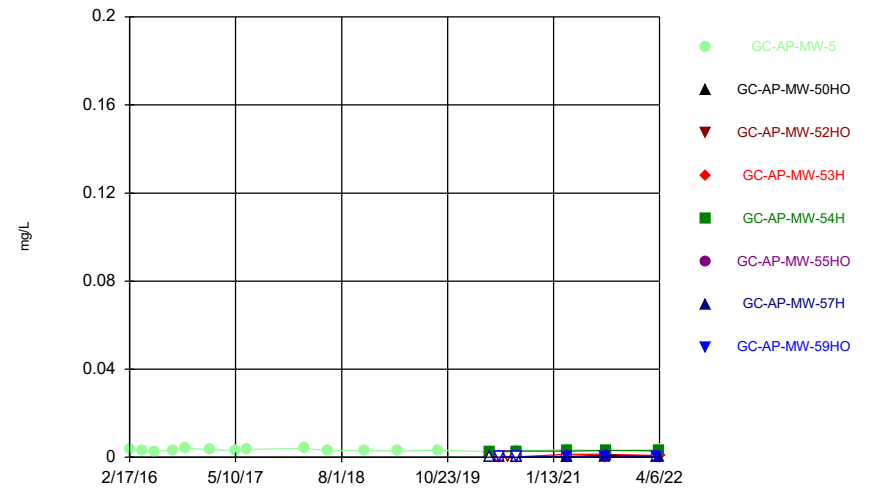
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Time Series



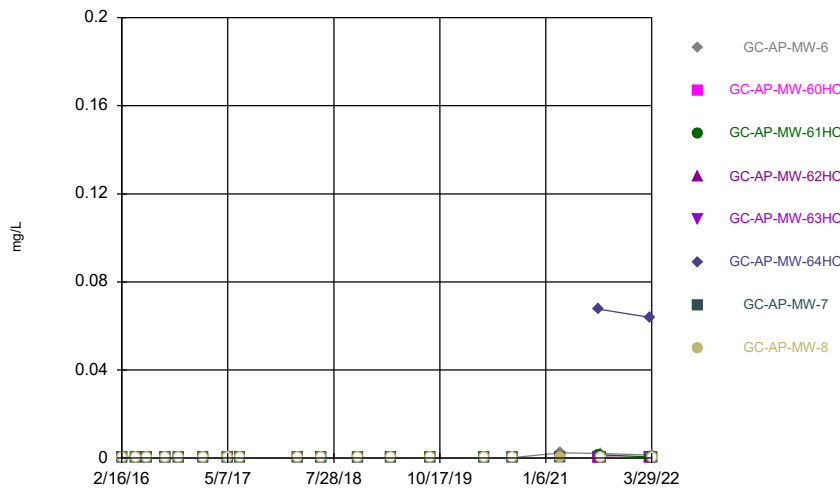
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Time Series



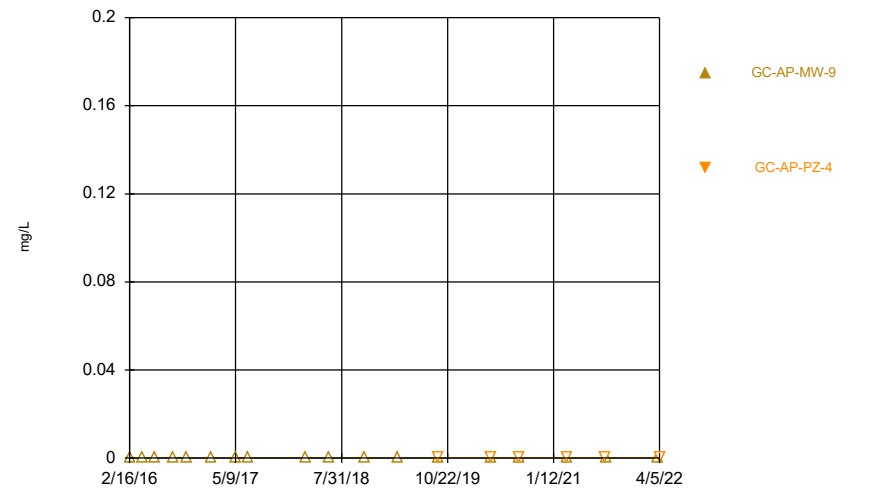
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Time Series



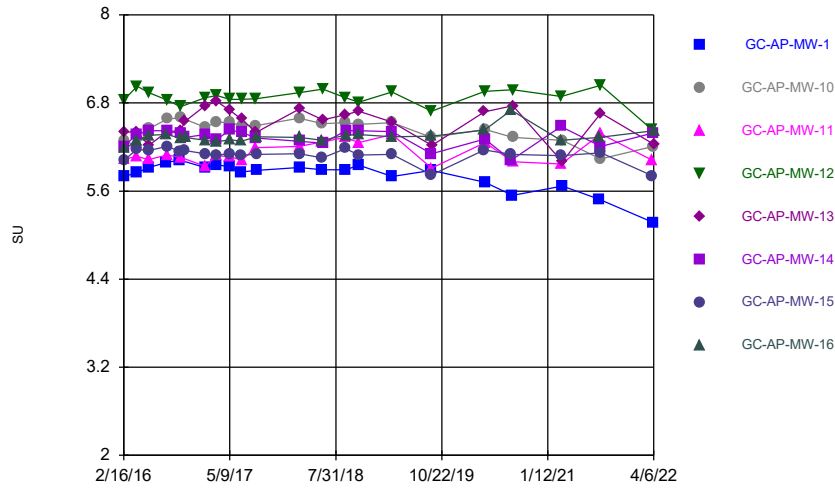
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Time Series



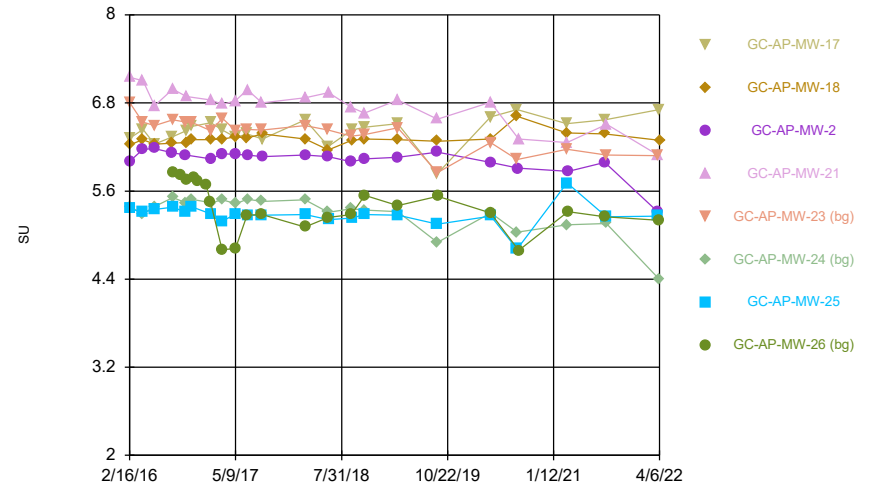
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Time Series



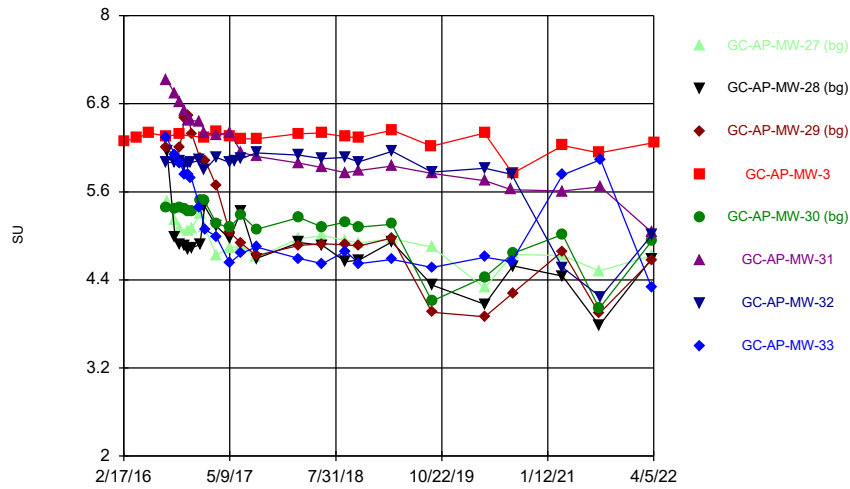
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Time Series



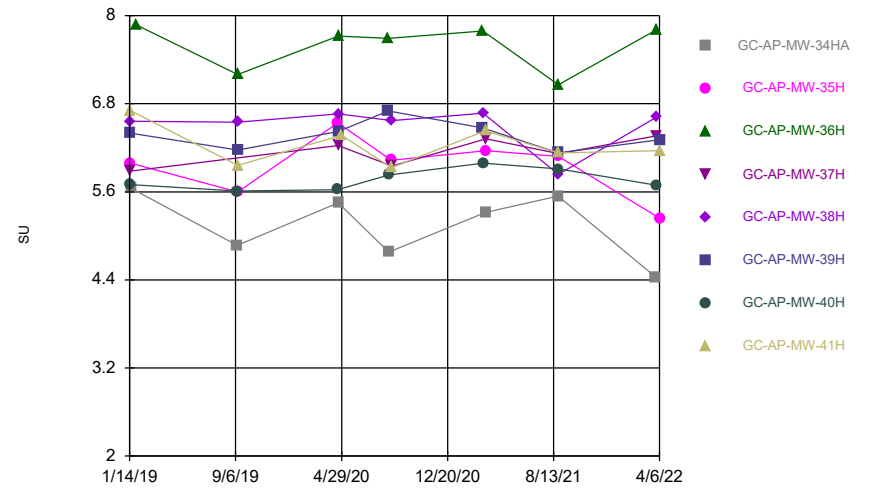
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Time Series



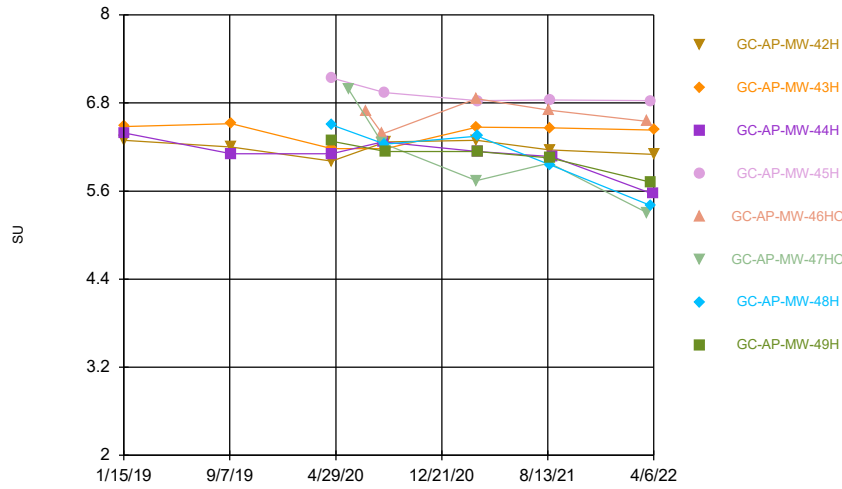
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Time Series



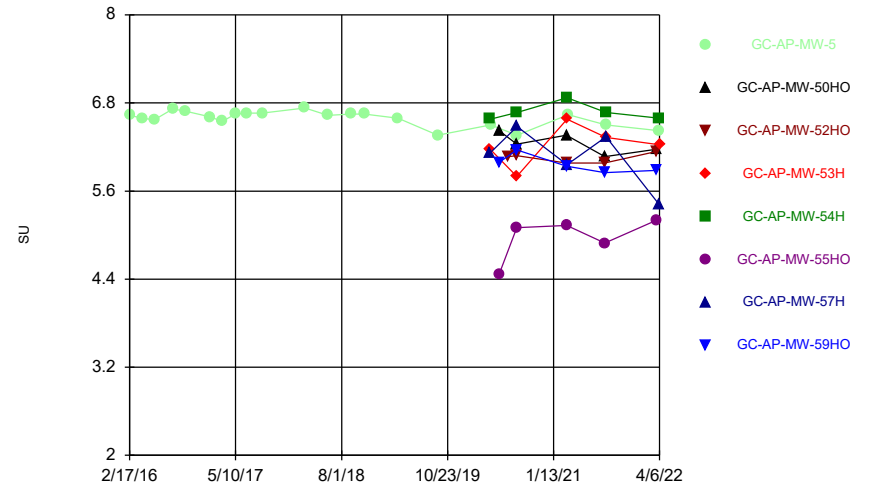
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Time Series



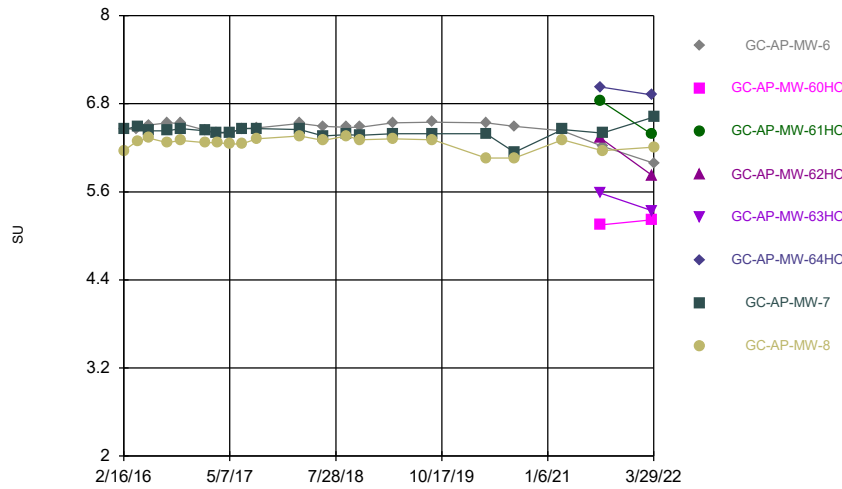
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Time Series



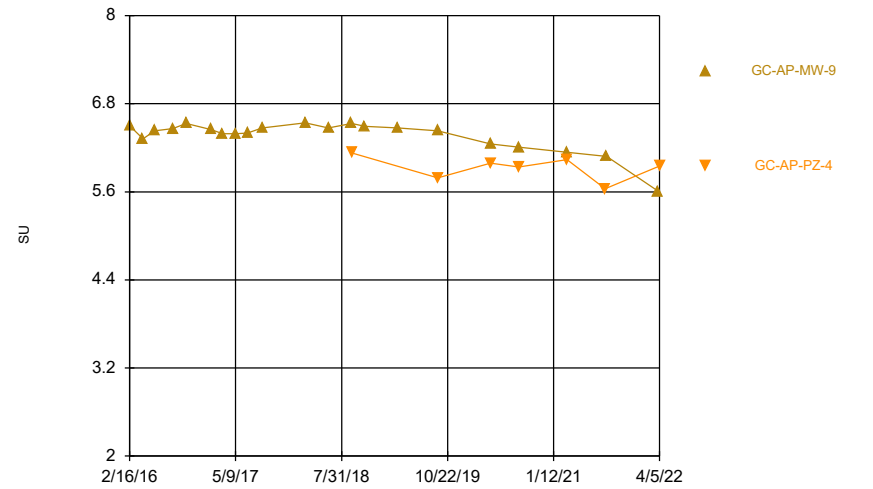
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Time Series



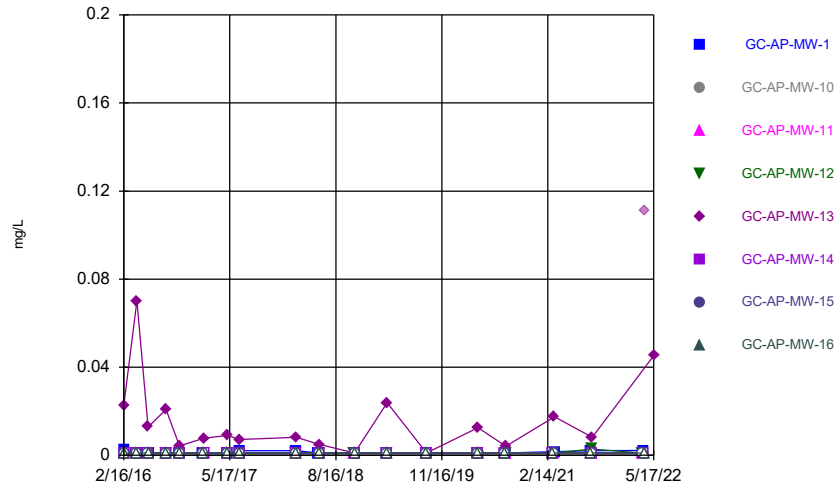
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Time Series



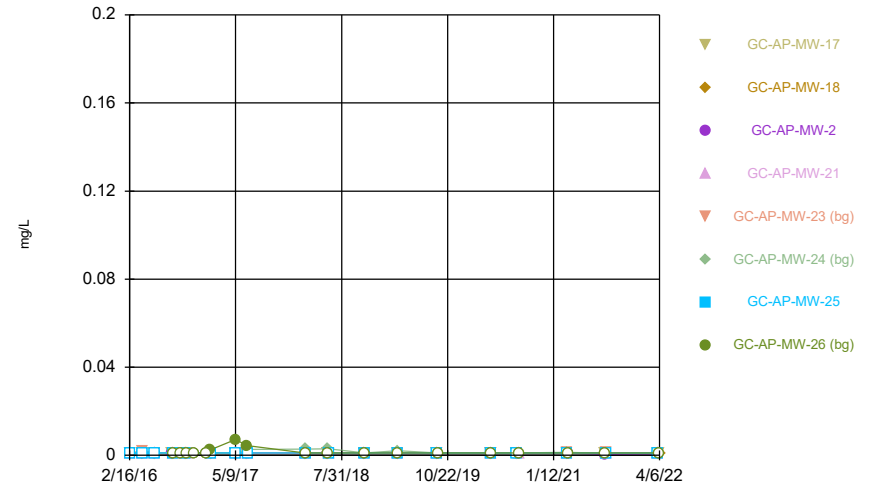
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Time Series



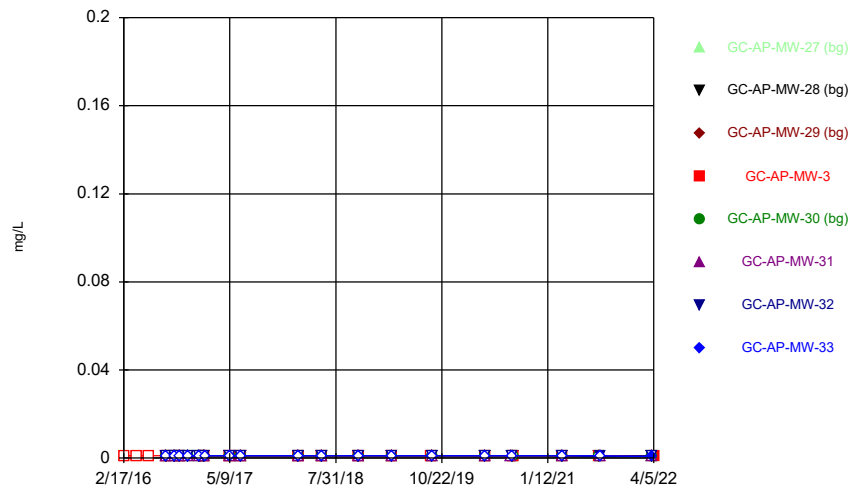
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Time Series



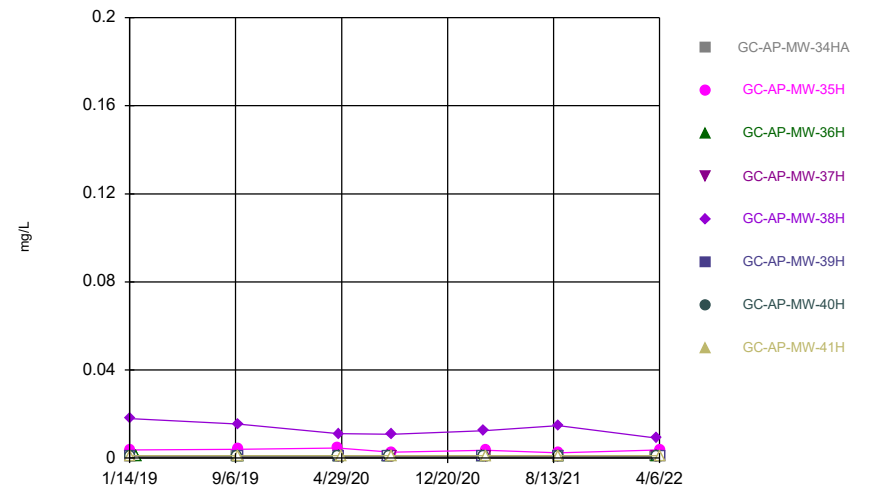
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Time Series



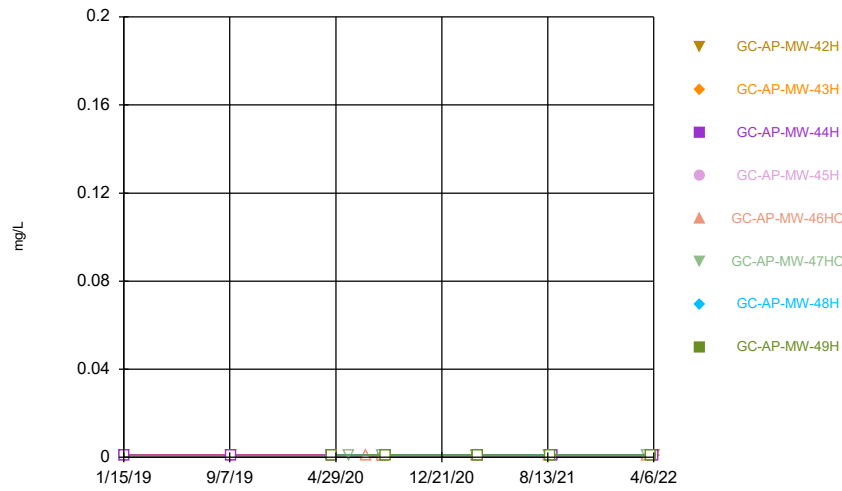
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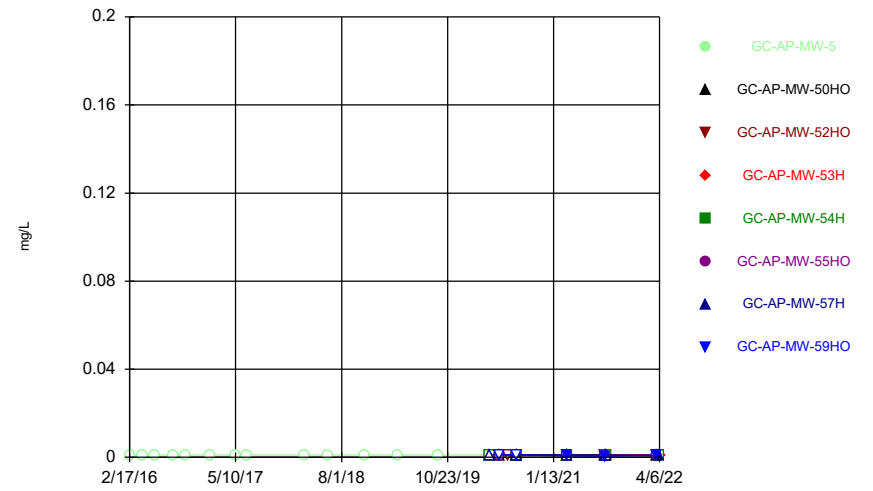
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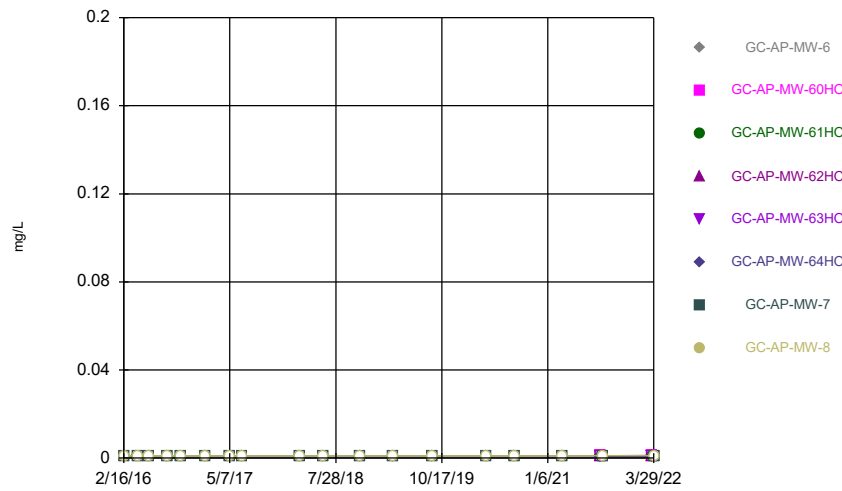
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Time Series



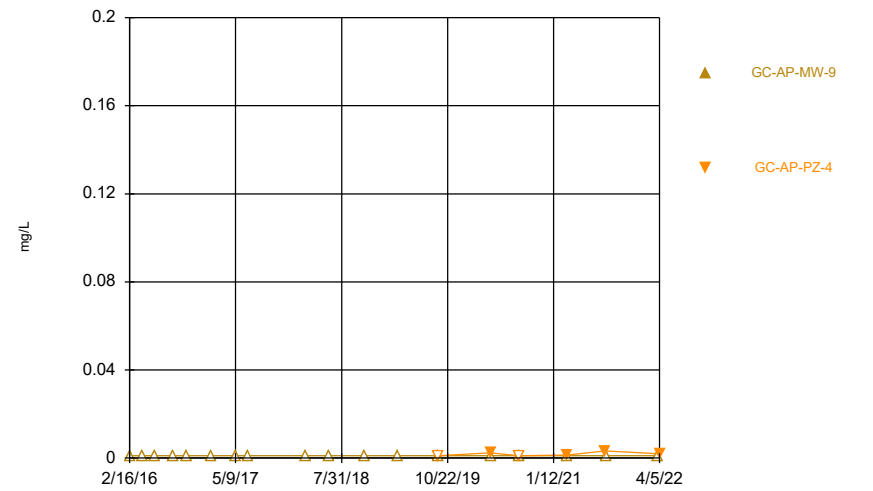
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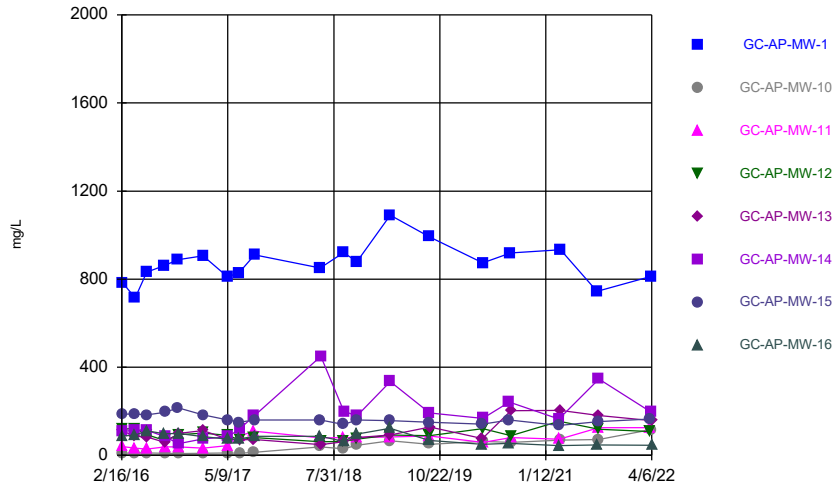
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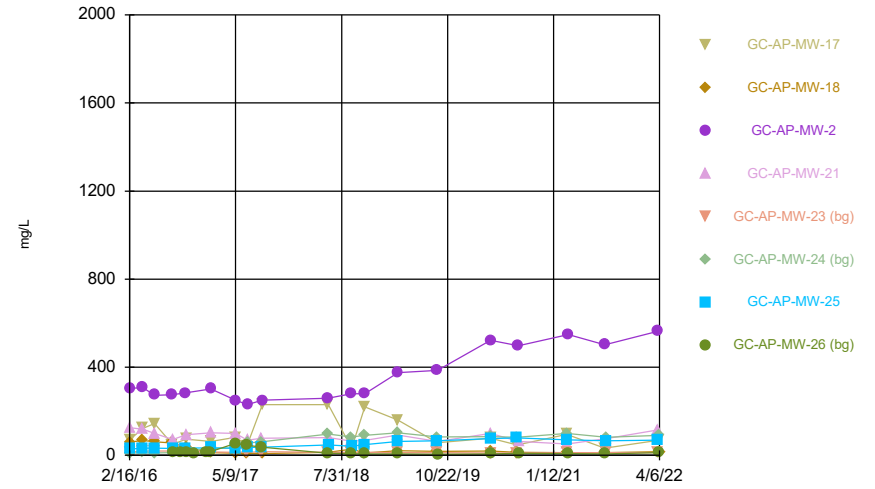
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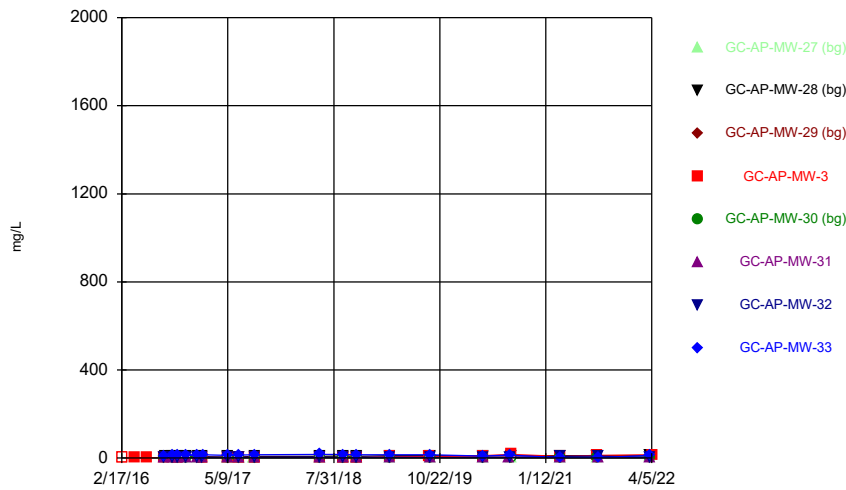
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Time Series



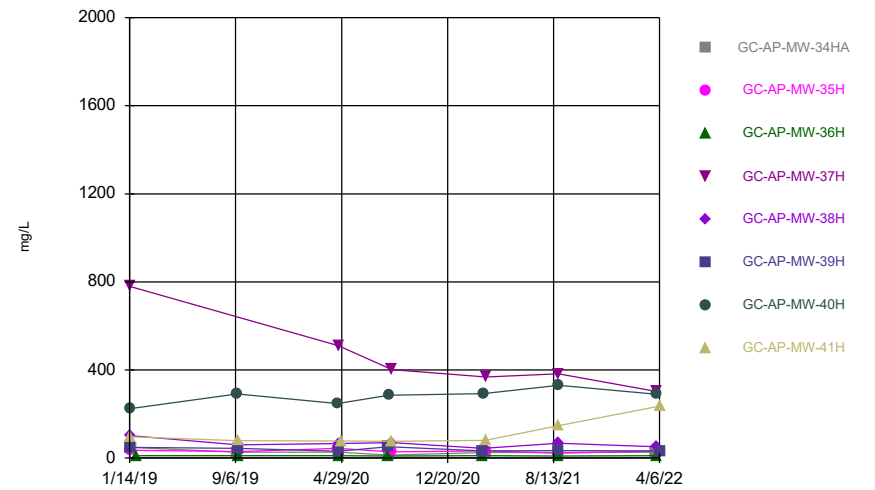
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Time Series



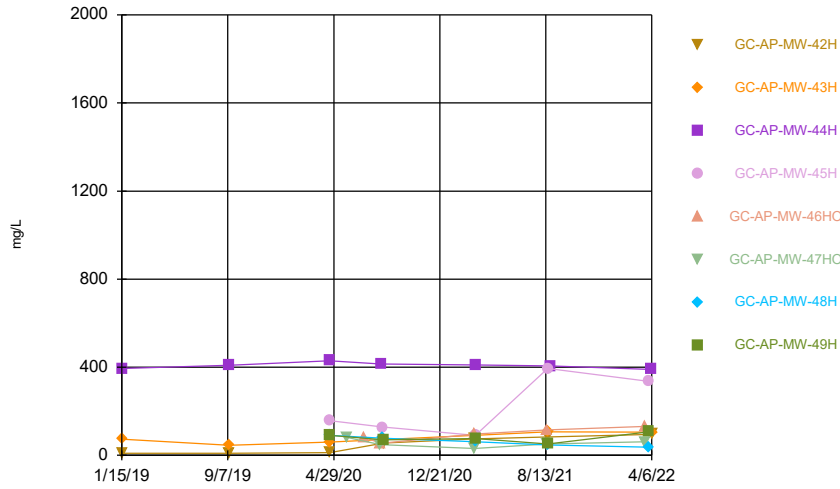
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Time Series



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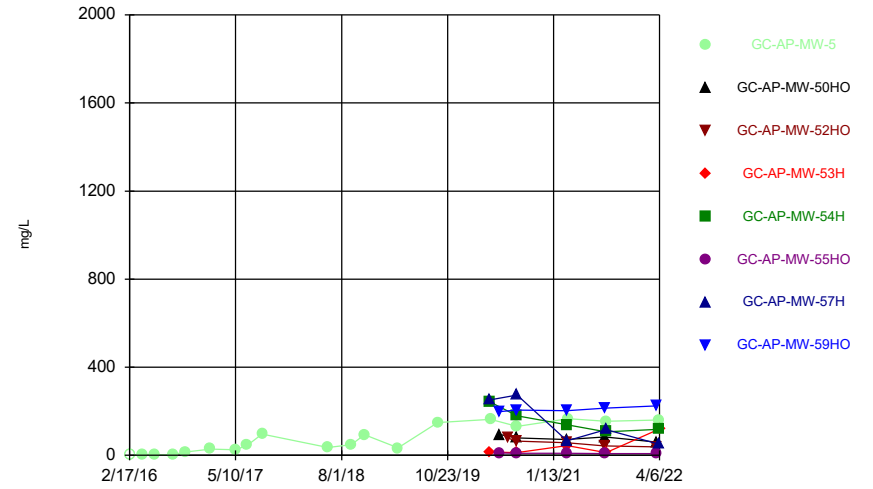
Time Series



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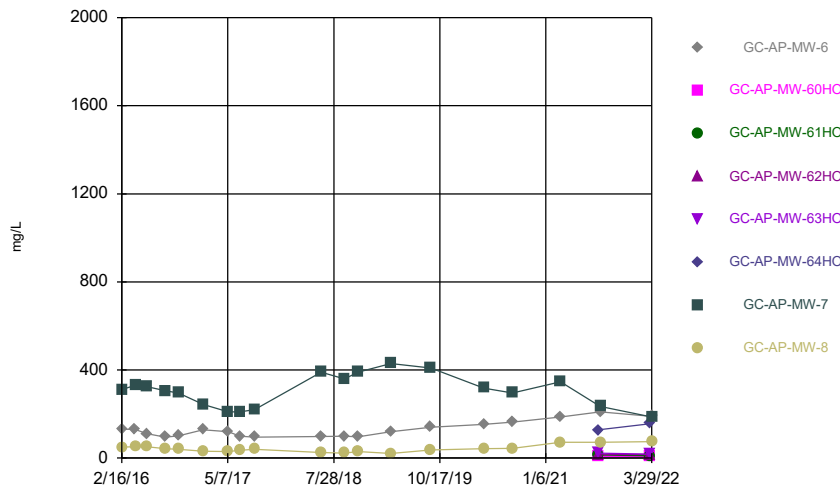
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Time Series



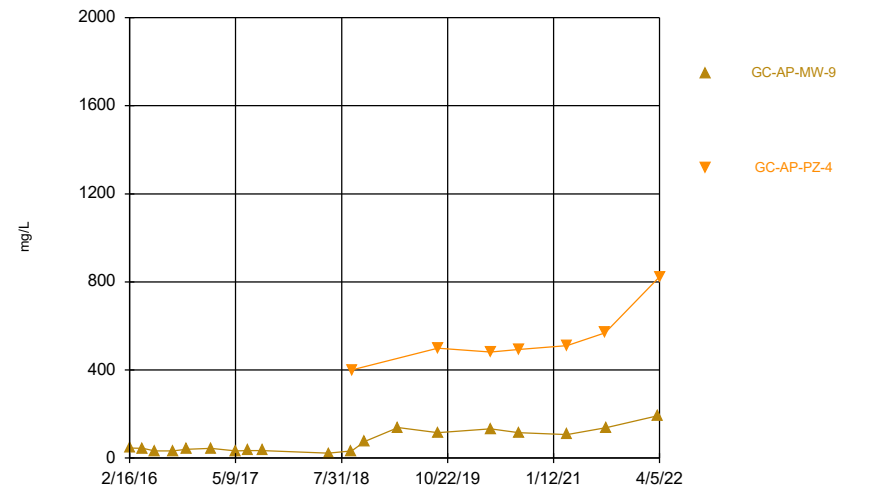
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Time Series



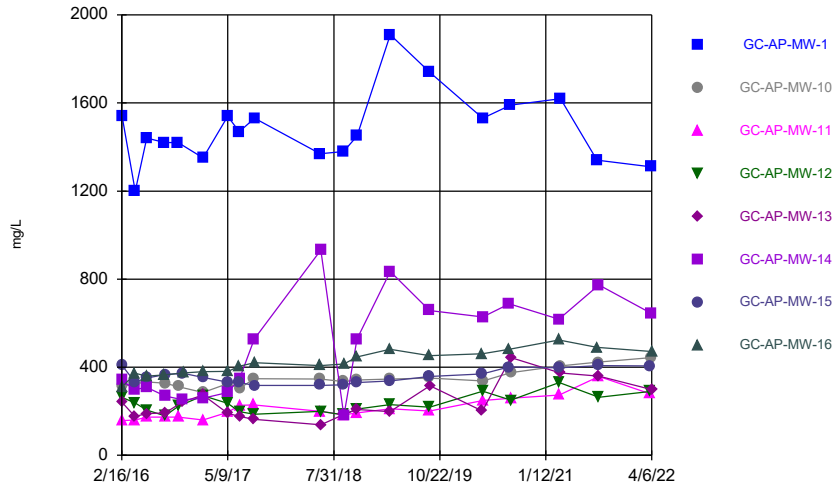
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Time Series



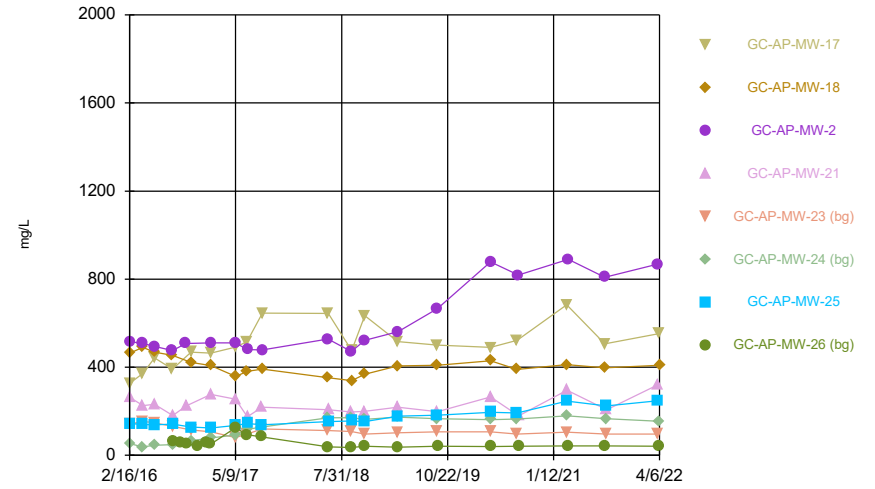
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Time Series



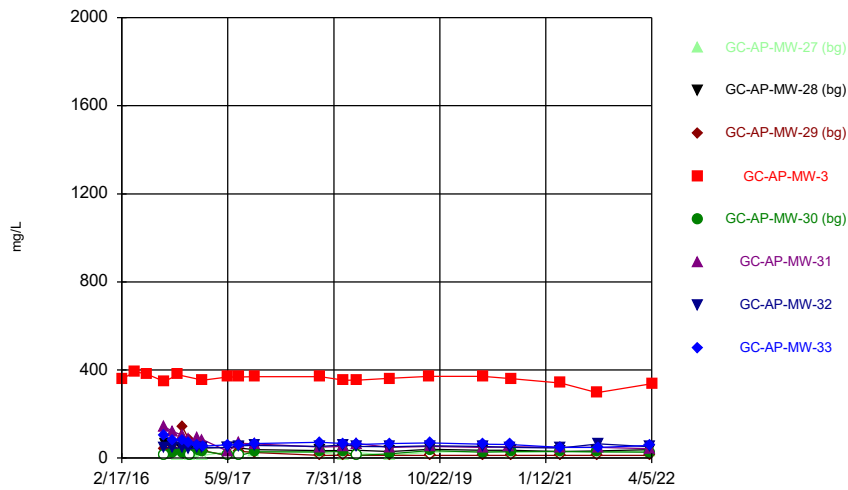
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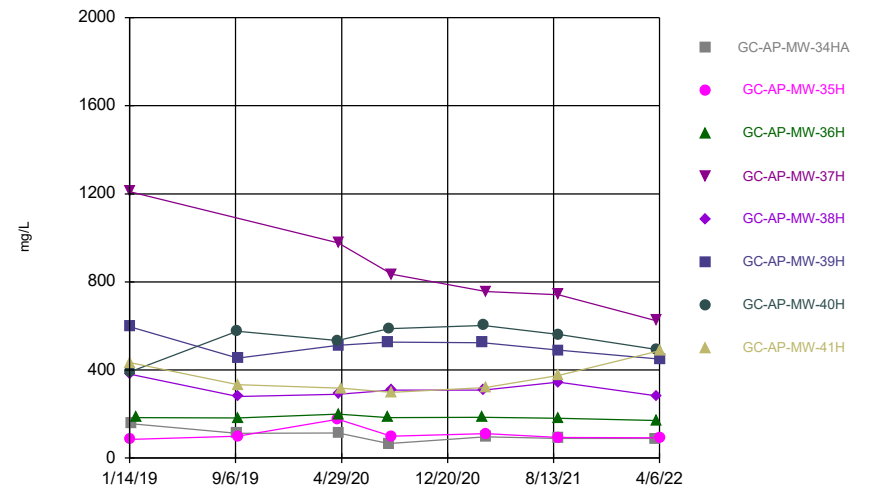
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Time Series



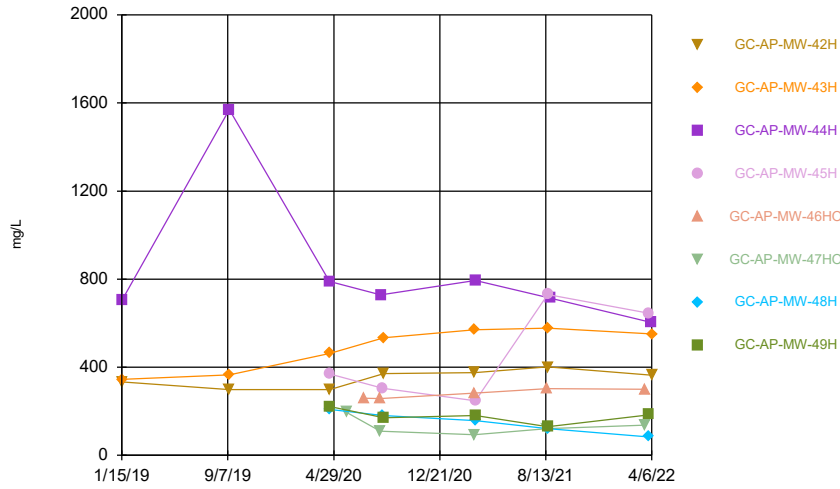
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Time Series



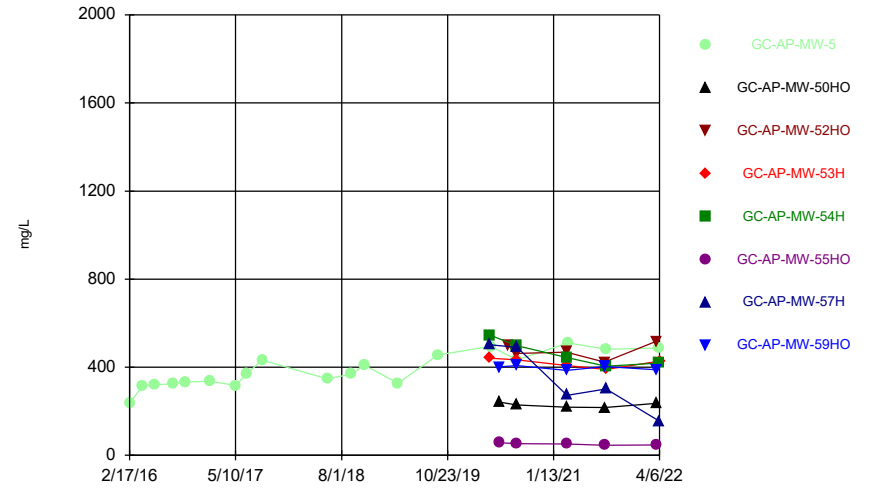
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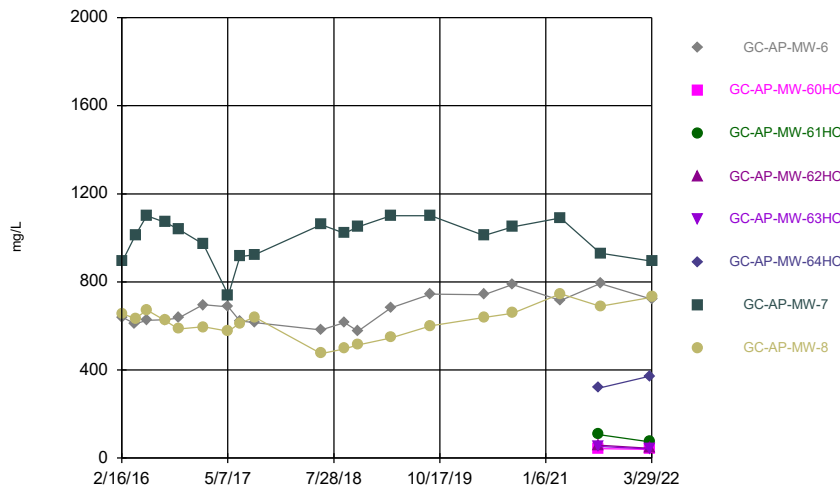
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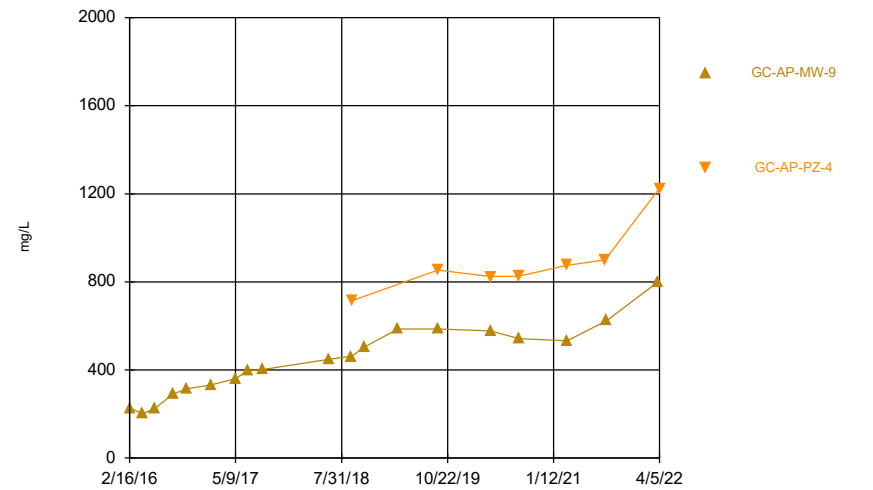
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Time Series



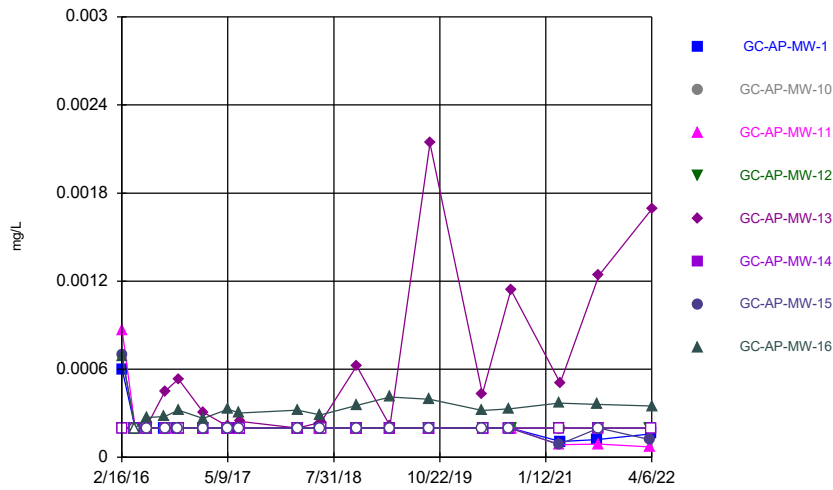
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Time Series



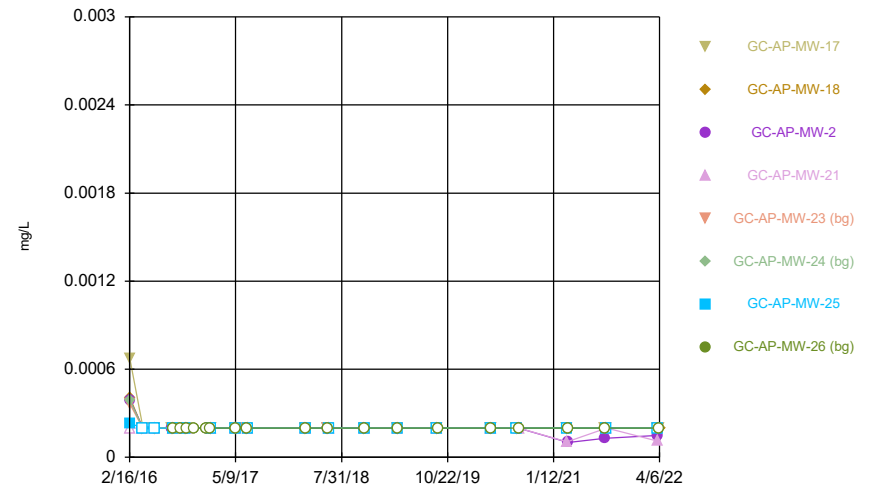
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Time Series



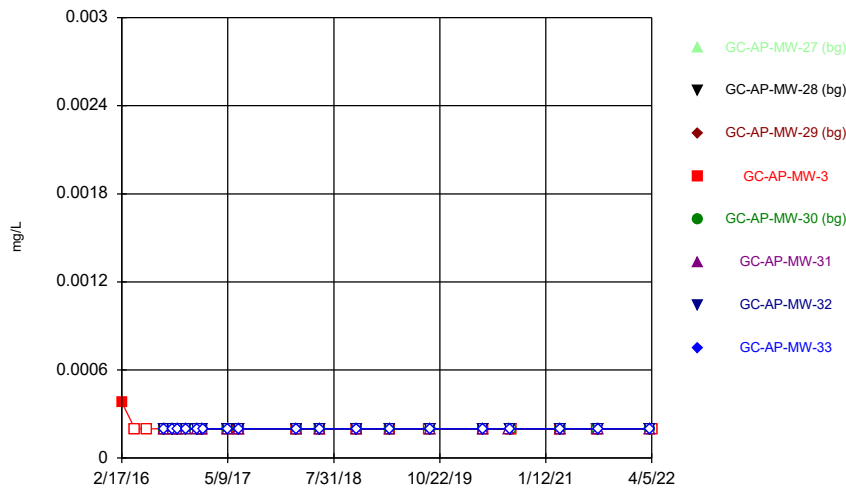
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Time Series



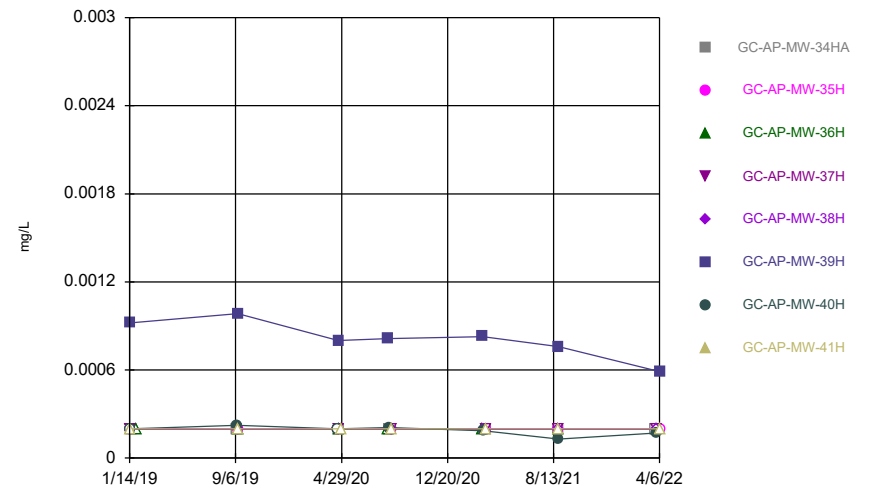
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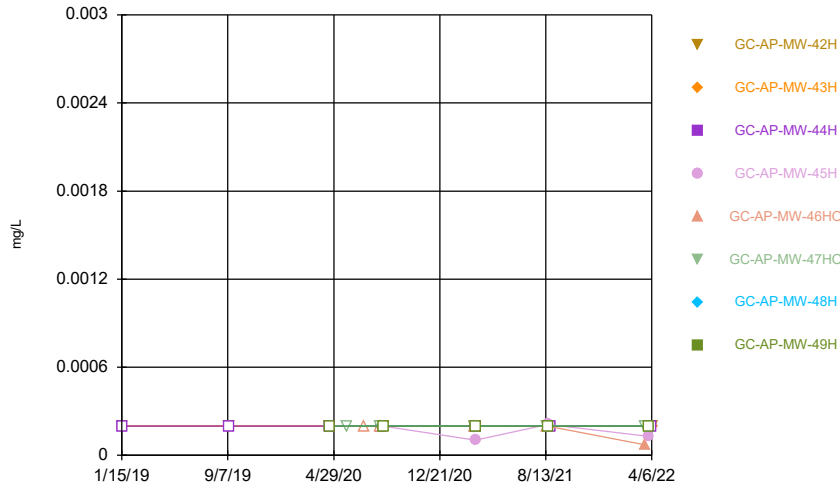
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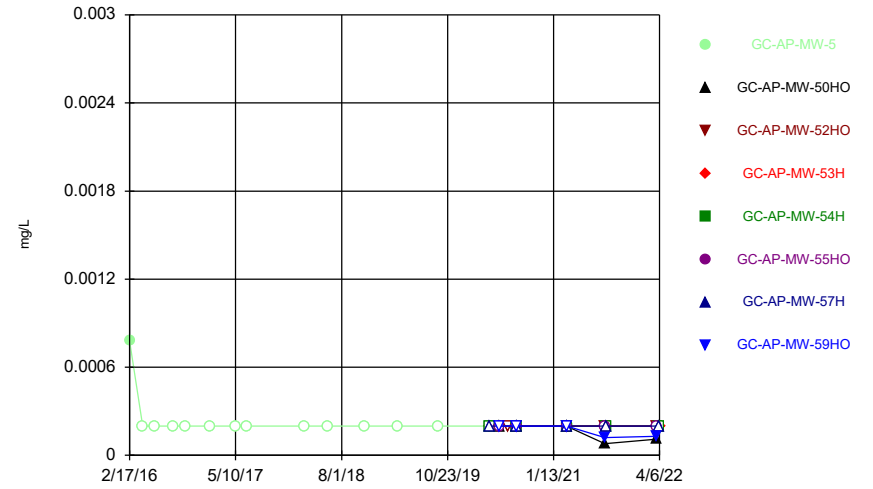
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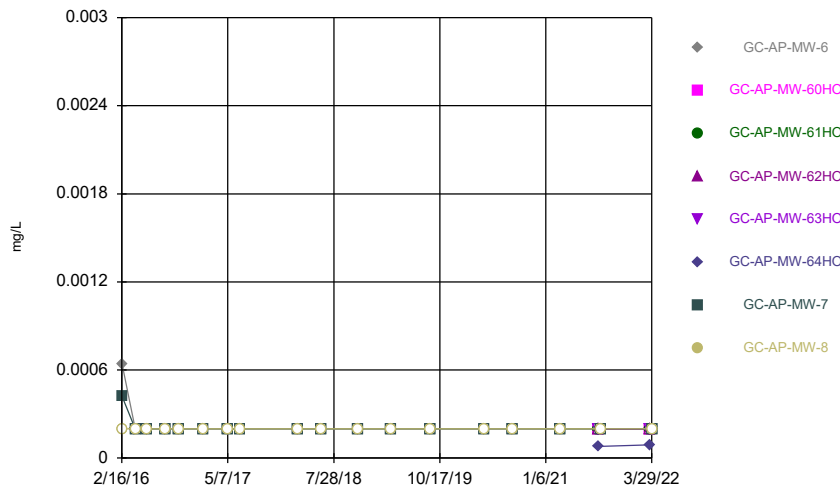
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Time Series



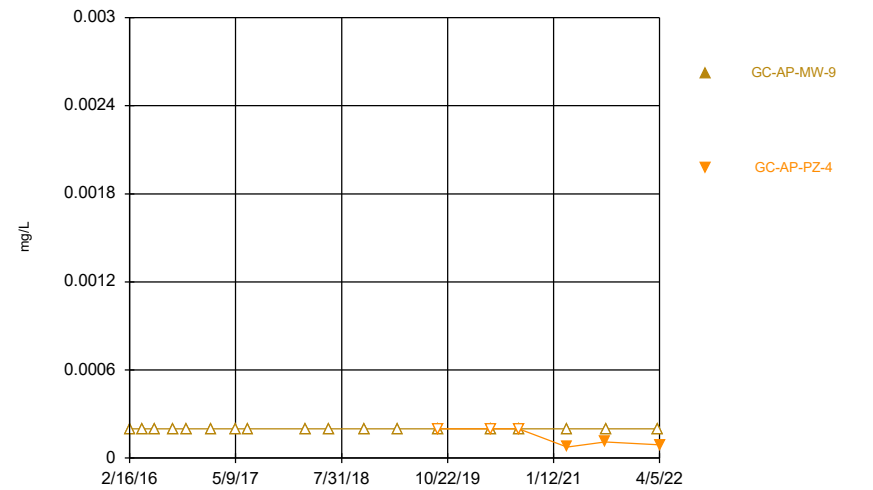
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Time Series



Constituent: Thallium Analysis Run 6/10/2022 12:56 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 6/10/2022 12:56 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
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2/17/2016	<0.00102		<0.00102				<0.00102	<0.00102
4/12/2016					<0.00102	<0.00102	<0.00102	
4/13/2016	<0.00102	<0.00102	<0.00102	<0.00102				<0.00102
5/31/2016		<0.00102	<0.00102	0.000834 (J)	0.000869 (J)	0.00062 (J)	<0.00102	
6/1/2016	<0.00102							<0.00102
8/15/2016	<0.00102							<0.00102
8/16/2016		<0.00102	<0.00102	0.00118 (J)	0.00128 (J)		<0.00102	
8/17/2016						<0.00102		
10/11/2016	<0.00102						<0.00102	
10/12/2016		<0.00102	<0.00102	0.000899 (J)	0.00114 (J)	<0.00102		<0.00102
1/24/2017	0.000799 (J)						0.00111 (J)	0.000935 (J)
1/25/2017		0.00128 (J)	0.000896 (J)	0.00136 (J)	0.00384	0.00106 (J)		
5/9/2017	<0.00102		<0.00102	<0.00102	0.00323	<0.00102		
5/10/2017		<0.00102					<0.00102	<0.00102
6/27/2017	<0.00102						<0.00102	<0.00102
6/28/2017		<0.00102	<0.00102	0.000683 (J)	0.00406	<0.00102		
2/27/2018	<0.00102	<0.00102	<0.00102			<0.00102		
2/28/2018				0.000656 (J)	0.00199 (J)		<0.00102	<0.00102
6/4/2018	<0.00102							
6/5/2018		<0.00102	<0.00102				<0.00102	<0.00102
6/6/2018				<0.00102	0.00261 (J)	<0.00102		
11/5/2018			<0.00102	<0.00102	0.00275 (J)			
11/6/2018	<0.00102						<0.00102	<0.00102
11/7/2018		<0.00102				<0.00102		
3/26/2019				0.00121 (J)	0.00219 (J)		<0.00102	<0.00102
3/27/2019	<0.00102	<0.00102	<0.00102			<0.00102		
9/10/2019	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102
9/11/2019					0.00261 (J)			
4/20/2020					0.00338		<0.00102	<0.00102
4/21/2020	<0.00102			<0.00102		<0.00102		
4/22/2020		<0.00102	<0.00102					
8/11/2020						<0.00102		<0.00102
8/12/2020							<0.00102	
8/17/2020	<0.00102							
8/18/2020		<0.00102	<0.00102	<0.00102	0.00388			
3/9/2021						<0.00102		<0.00102
3/10/2021			<0.00102	<0.00102			<0.00102	
3/15/2021		<0.00102			0.0016			
3/16/2021	<0.00102							
8/17/2021	<0.00102							<0.00102
8/24/2021		<0.00102						
8/25/2021			<0.00102	<0.00102	0.00263	<0.00102	<0.00102	
3/29/2022				<0.00102			<0.00102	
3/30/2022			<0.00102					
4/4/2022	<0.00102	<0.00102				<0.00102		
4/6/2022					0.002			<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.00102				
2/17/2016	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	
4/12/2016		<0.00102			<0.00102	<0.00102	<0.00102	
4/13/2016	<0.00102		<0.00102	<0.00102				
6/1/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
8/15/2016	<0.00102	<0.00102	<0.00102					
8/16/2016				<0.00102	<0.00102	<0.00102		
8/17/2016							<0.00102	<0.00102
9/20/2016								<0.00102
10/11/2016			<0.00102		<0.00102	<0.00102	<0.00102	
10/12/2016	<0.00102	<0.00102		<0.00102				<0.00102
11/15/2016								<0.00102
1/4/2017								<0.00102
1/23/2017								0.001 (J)
1/24/2017	0.000997 (J)	0.000984 (J)	0.00084 (J)		0.000886 (J)	0.000858 (J)	0.00111 (J)	
1/25/2017				0.00107 (J)				
5/9/2017			<0.00102	<0.00102	<0.00102		<0.00102	<0.00102
5/10/2017	<0.00102	<0.00102				<0.00102		
6/27/2017	<0.00102	<0.00102			<0.00102			<0.00102
6/28/2017			<0.00102	<0.00102		<0.00102	<0.00102	
2/27/2018			<0.00102		<0.00102	<0.00102		<0.00102
2/28/2018	<0.00102	<0.00102		<0.00102			<0.00102	
6/4/2018			<0.00102					
6/5/2018	<0.00102	<0.00102			<0.00102	<0.00102		<0.00102
6/6/2018				<0.00102			<0.00102	
11/5/2018				<0.00102				
11/6/2018	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102
11/7/2018					<0.00102	<0.00102		
3/26/2019	0.000897 (J)	<0.00102		0.000964 (J)	<0.00102	<0.00102		<0.00102
3/27/2019			<0.00102				<0.00102	
9/9/2019	<0.00102	<0.00102	<0.00102					
9/10/2019				<0.00102	<0.00102	<0.00102	<0.00102	
9/11/2019								<0.00102
4/21/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			<0.00102
4/22/2020						<0.00102	<0.00102	
8/11/2020	<0.00102						<0.00102	
8/12/2020		<0.00102			<0.00102	<0.00102		
8/17/2020			<0.00102					
8/18/2020				<0.00102				<0.00102
3/9/2021	<0.00102	<0.00102						
3/10/2021				<0.00102	<0.00102	<0.00102	<0.00102	
3/15/2021								<0.00102
3/16/2021			<0.00102					
8/17/2021	<0.00102	<0.00102	<0.00102					
8/18/2021								<0.00102
8/24/2021					<0.00102	<0.00102	<0.00102	
8/25/2021				<0.00102				
3/28/2022			<0.00102		<0.00102			
3/29/2022							<0.00102	
3/30/2022				<0.00102				
4/4/2022	<0.00102					<0.00102		<0.00102
4/6/2022		<0.00102						

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.00102				
4/12/2016				<0.00102				
6/1/2016				<0.00102				
8/15/2016				<0.00102				
8/16/2016			<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
8/17/2016	<0.00102	<0.00102						
9/19/2016						<0.00102	<0.00102	<0.00102
9/20/2016	<0.00102	<0.00102	<0.00102		<0.00102			
10/11/2016			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/12/2016	<0.00102	<0.00102						
11/14/2016						<0.00102	<0.00102	<0.00102
11/15/2016	<0.00102	<0.00102	<0.00102		<0.00102			
1/3/2017						<0.00102	<0.00102	<0.00102
1/4/2017	<0.00102	<0.00102	<0.00102		<0.00102			
1/23/2017	0.00083 (J)				0.000701 (J)			
1/24/2017		0.00096 (J)		0.000906 (J)		0.000928 (J)	0.00091 (J)	
1/25/2017								0.00112 (J)
1/26/2017			0.00092 (J)					
5/9/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			
5/10/2017						<0.00102	<0.00102	<0.00102
6/27/2017	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
6/28/2017				<0.00102				
2/27/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/4/2018				<0.00102				
6/5/2018	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
11/5/2018							<0.00102	
11/6/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
3/26/2019	0.00137 (J)	0.000975 (J)	<0.00102		0.000854 (J)			
3/27/2019				<0.00102		<0.00102	<0.00102	<0.00102
9/9/2019				<0.00102				
9/11/2019	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
4/20/2020				<0.00102				
4/21/2020	<0.00102	<0.00102	<0.00102		<0.00102			
4/22/2020						<0.00102	<0.00102	<0.00102
8/11/2020						<0.00102		
8/12/2020							<0.00102	<0.00102
8/17/2020				<0.00102				
8/18/2020	<0.00102	<0.00102	<0.00102		<0.00102			
3/15/2021	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
3/16/2021				<0.00102				
8/17/2021				<0.00102				
8/18/2021	<0.00102	<0.00102	<0.00102		<0.00102			
8/23/2021						<0.00102	<0.00102	<0.00102
3/28/2022	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
4/5/2022				<0.00102				

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.00102			
1/15/2019				<0.00102		<0.00102	<0.00102	<0.00102
1/16/2019		<0.00102						
1/17/2019	<0.00102							
1/30/2019			<0.00102					
9/10/2019	<0.00102						<0.00102	
9/11/2019		<0.00102	<0.00102		<0.00102	<0.00102		<0.00102
4/20/2020							<0.00102	
4/21/2020		<0.00102						
4/22/2020	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102		
4/29/2020								<0.00102
8/11/2020			<0.00102			<0.00102		
8/12/2020	<0.00102						<0.00102	
8/18/2020		<0.00102						<0.00102
8/19/2020				<0.00102	<0.00102			
3/9/2021			<0.00102			<0.00102		
3/10/2021					<0.00102		<0.00102	
3/15/2021	<0.00102							<0.00102
3/16/2021		<0.00102		<0.00102				
8/23/2021	<0.00102							
8/24/2021		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
8/25/2021							<0.00102	<0.00102
3/28/2022	<0.00102							
3/29/2022				<0.00102				
3/30/2022			<0.00102		<0.00102		<0.00102	
4/6/2022		<0.00102				<0.00102		<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.00102							
1/16/2019		<0.00102	<0.00102					
9/11/2019	<0.00102	<0.00102	<0.00102					
4/20/2020			<0.00102	<0.00102				
4/21/2020	<0.00102	<0.00102					<0.00102	<0.00102
5/28/2020						<0.00102		
7/6/2020					<0.00102			
8/11/2020					<0.00102	<0.00102		
8/12/2020			<0.00102					
8/17/2020				<0.00102			<0.00102	
8/19/2020	<0.00102	<0.00102						<0.00102
3/8/2021					<0.00102	<0.00102		
3/9/2021	<0.00102	<0.00102						
3/10/2021			<0.00102	<0.00102			<0.00102	<0.00102
8/17/2021					<0.00102	<0.00102		
8/18/2021	<0.00102	<0.00102		<0.00102			<0.00102	<0.00102
8/23/2021			<0.00102					
3/23/2022					<0.00102	<0.00102		
3/29/2022				<0.00102				
3/30/2022							<0.00102	<0.00102
4/4/2022			<0.00102					
4/6/2022	<0.00102	<0.00102						

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.00102							
4/12/2016	<0.00102							
5/31/2016	<0.00102							
8/17/2016	<0.00102							
10/11/2016	<0.00102							
1/24/2017	0.000728 (J)							
5/9/2017	<0.00102							
6/28/2017	<0.00102							
2/27/2018	<0.00102							
6/5/2018	<0.00102							
11/6/2018	<0.00102							
3/27/2019	<0.00102							
9/11/2019	<0.00102							
4/20/2020				<0.00102	<0.00102		<0.00102	
4/21/2020	<0.00102							
5/28/2020		<0.00102				<0.00102		<0.00102
7/6/2020			<0.00102					
8/11/2020		<0.00102	<0.00102	<0.00102		<0.00102		<0.00102
8/12/2020	<0.00102				<0.00102		<0.00102	
3/8/2021		<0.00102	<0.00102					
3/9/2021						<0.00102		<0.00102
3/10/2021				<0.00102	<0.00102		<0.00102	
3/16/2021	<0.00102							
8/16/2021			<0.00102					
8/17/2021		<0.00102				<0.00102		<0.00102
8/23/2021	<0.00102			<0.00102	<0.00102		<0.00102	
3/23/2022		<0.00102	<0.00102			<0.00102		<0.00102
4/4/2022	<0.00102							
4/5/2022					<0.00102		<0.00102	
4/6/2022				<0.00102				

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.00102
2/17/2016	<0.00102						<0.00102	
4/12/2016	<0.00102							
4/13/2016							<0.00102	<0.00102
5/31/2016	<0.00102						<0.00102	
6/1/2016								<0.00102
8/17/2016	<0.00102						<0.00102	<0.00102
10/11/2016	<0.00102							
10/12/2016							<0.00102	<0.00102
1/24/2017	0.000792 (J)							
1/25/2017							0.000839 (J)	0.000833 (J)
5/10/2017	<0.00102						<0.00102	<0.00102
6/28/2017	<0.00102						<0.00102	<0.00102
2/27/2018	<0.00102						<0.00102	<0.00102
6/5/2018	<0.00102						<0.00102	<0.00102
11/7/2018	<0.00102						<0.00102	<0.00102
3/26/2019	0.00141 (J)						<0.00102	<0.00102
9/10/2019	<0.00102						<0.00102	<0.00102
4/21/2020	<0.00102						<0.00102	<0.00102
8/19/2020	<0.00102						<0.00102	<0.00102
3/9/2021	<0.00102						<0.00102	<0.00102
8/17/2021		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
8/24/2021	<0.00102						0.00075 (J)	<0.00102
3/23/2022		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
3/29/2022	<0.00102						0.00066 (J)	<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.00102	
4/13/2016	<0.00102	
6/1/2016	<0.00102	
8/17/2016	<0.00102	
10/12/2016	<0.00102	
1/25/2017	0.000847 (J)	
5/10/2017	<0.00102	
6/28/2017	<0.00102	
2/27/2018	<0.00102	
6/5/2018	<0.00102	
11/7/2018	<0.00102	
3/26/2019	<0.00102	
9/10/2019	<0.00102	<0.00102
4/20/2020		<0.00102
4/21/2020	<0.00102	
8/17/2020		<0.00102
8/18/2020	<0.00102	
3/9/2021	<0.00102	
3/10/2021		<0.00102
8/17/2021		<0.00102
8/24/2021	<0.00102	
3/29/2022	<0.00102	
4/5/2022		<0.00102

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.0123		<0.0002	0.0141	0.0202		
2/17/2016	0.0181		0.00437 (J)				<0.0002	0.0788
4/12/2016					0.0144	0.0214	<0.0002	
4/13/2016	0.0178	0.0143	0.00695	<0.0002				0.0759
5/31/2016		0.0125	0.0063	<0.0002	0.00984	0.0156	<0.0002	
6/1/2016	0.016							0.292
8/15/2016	0.0182							0.105
8/16/2016		0.0128	0.0068	<0.0002	0.0126		<0.0002	
8/17/2016						0.0153		
10/11/2016	0.0186						<0.0002	
10/12/2016		0.0145	0.00709	<0.0002	0.0117	0.0254		0.0831
1/24/2017	0.0173						<0.0002	0.0472
1/25/2017		0.0122	0.00718	<0.0002	0.00316 (J)	0.0194		
5/9/2017	0.0176		0.00819	<0.0002	0.00393 (J)	0.0361		
5/10/2017		0.0135					<0.0002	0.0814
6/27/2017	0.0165						<0.0002	0.0693
6/28/2017		0.0131	0.00664	<0.0002	0.00406 (J)	0.022		
2/27/2018	0.0201	0.0146	0.00733			0.0265		
2/28/2018				<0.0002	0.00278 (J)		<0.0002	0.0852
6/4/2018	0.0195							
6/5/2018		0.0233	0.00637				<0.0002	0.0648
6/6/2018				<0.0002	0.00352 (J)	0.0372		
11/5/2018			0.00195 (J)	<0.0002	0.00497 (J)			
11/6/2018	0.0189						<0.0002	0.0701
11/7/2018		0.0152				0.0289		
3/26/2019				<0.0002	0.00251 (J)		<0.0002	0.0952
3/27/2019	0.0267	0.014	0.00573			0.0264		
9/10/2019	0.0226	0.0132	0.00378 (J)	<0.0002		0.0263	<0.0002	0.0786
9/11/2019					0.00664			
4/20/2020					0.00181 (J)		<0.0002	0.105
4/21/2020	0.0219			<0.0002		0.0178		
4/22/2020		0.0121	0.00616					
8/11/2020						0.0207		0.0698
8/12/2020							<0.0002	
8/17/2020	0.0265							
8/18/2020		0.0121	0.00457 (J)	<0.0002	0.00176 (J)			
3/9/2021						0.0292		0.113
3/10/2021			0.00317	0.000251			0.000349	
3/15/2021		0.0125			0.00207			
3/16/2021	0.0238							
8/17/2021	0.0206							0.0765
8/24/2021		0.0129						
8/25/2021			0.00518	0.00023	0.00302	0.0224	0.00046	
3/29/2022				0.00023			0.00032	
3/30/2022			0.00097					
4/4/2022	0.0164	0.0117				0.0241		
4/6/2022					0.00261			0.078

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.0002				
2/17/2016	0.177	0.133	0.0142		<0.0002	<0.0002	<0.0002	
4/12/2016		0.134			<0.0002	<0.0002	<0.0002	
4/13/2016	0.271		0.0145	<0.0002				
6/1/2016	0.251	0.11	0.0112	<0.0002	<0.0002	<0.0002	<0.0002	
8/15/2016	0.253	0.116	0.0154					
8/16/2016				<0.0002	<0.0002	<0.0002		
8/17/2016							<0.0002	0.0017 (J)
9/20/2016								0.00283 (J)
10/11/2016			0.0113		<0.0002	<0.0002	<0.0002	
10/12/2016	0.243	0.109		<0.0002				0.00218 (J)
11/15/2016								0.00124 (J)
1/4/2017								0.0028 (J)
1/23/2017								0.00257 (J)
1/24/2017	0.363	0.0825	0.0115		<0.0002	<0.0002	<0.0002	
1/25/2017				<0.0002				
5/9/2017			0.00989	<0.0002	<0.0002		<0.0002	0.00138 (J)
5/10/2017	0.499	0.0776				<0.0002		
6/27/2017	0.489	0.0672			<0.0002			<0.0002
6/28/2017			0.00848	<0.0002		<0.0002	<0.0002	
2/27/2018			0.0106		<0.0002	<0.0002		<0.0002
2/28/2018	0.532	0.063		<0.0002			<0.0002	
6/4/2018			0.0124					
6/5/2018	0.382	0.0661			<0.0002	<0.0002		<0.0002
6/6/2018				<0.0002			<0.0002	
11/5/2018				<0.0002				
11/6/2018	0.299	0.0509	0.0085				<0.0002	<0.0002
11/7/2018					<0.0002	<0.0002		
3/26/2019	0.32	0.0477		<0.0002	<0.0002	<0.0002		<0.0002
3/27/2019			0.0101				<0.0002	
9/9/2019	0.356	0.0498	0.022					
9/10/2019				<0.0002	<0.0002	<0.0002	<0.0002	
9/11/2019								<0.0002
4/21/2020	0.689	0.0478	0.013	<0.0002	<0.0002			<0.0002
4/22/2020						<0.0002	<0.0002	
8/11/2020	0.581						<0.0002	
8/12/2020		0.0485			<0.0002	<0.0002		
8/17/2020			0.00768					
8/18/2020				<0.0002				<0.0002
3/9/2021	0.86	0.0505						
3/10/2021				0.000216	<0.0002	0.00045	0.00033	
3/15/2021								0.000125 (J)
3/16/2021			0.0045					
8/17/2021	0.937	0.0509	0.00514					
8/18/2021								0.00016 (J)
8/24/2021					7E-05 (J)	0.00024	0.00028	
8/25/2021				0.00014 (J)				
3/28/2022			0.00381		<0.0002			
3/29/2022							0.00026	
3/30/2022				0.00017 (J)				
4/4/2022	0.861					0.00033		0.00011 (J)
4/6/2022		0.049						

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Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.00668				
4/12/2016				0.00827				
6/1/2016				0.00768				
8/15/2016				0.00798				
8/16/2016			0.00199 (J)		<0.0002	0.00185 (J)	<0.0002	0.00122 (J)
8/17/2016	<0.0002	<0.0002						
9/19/2016						0.00121 (J)	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	0.00155 (J)		<0.0002			
10/11/2016			0.00231 (J)	0.008	<0.0002	0.00111 (J)	<0.0002	<0.0002
10/12/2016	<0.0002	<0.0002						
11/14/2016						<0.0002	<0.0002	<0.0002
11/15/2016	<0.0002	<0.0002	0.0044 (J)		<0.0002			
1/3/2017						<0.0002	<0.0002	<0.0002
1/4/2017	<0.0002	<0.0002	0.00123 (J)		<0.0002			
1/23/2017	<0.0002				<0.0002			
1/24/2017		<0.0002		0.00722		<0.0002	<0.0002	
1/25/2017								<0.0002
1/26/2017			0.00169 (J)					
5/9/2017	<0.0002	<0.0002	<0.0002	0.00766	<0.0002			
5/10/2017						<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
6/28/2017				0.00745				
2/27/2018	<0.0002	<0.0002	<0.0002	0.00699	<0.0002	<0.0002	<0.0002	<0.0002
6/4/2018				0.00731				
6/5/2018	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
11/5/2018							<0.0002	
11/6/2018	<0.0002	<0.0002	<0.0002	0.00685	<0.0002	<0.0002		<0.0002
3/26/2019	<0.0002	<0.0002	<0.0002		<0.0002			
3/27/2019				0.00596		<0.0002	<0.0002	<0.0002
9/9/2019				0.00806				
9/11/2019	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
4/20/2020				0.00751				
4/21/2020	<0.0002	<0.0002	<0.0002		<0.0002			
4/22/2020						<0.0002	<0.0002	<0.0002
8/11/2020						<0.0002		
8/12/2020							<0.0002	<0.0002
8/17/2020				0.00909				
8/18/2020	<0.0002	<0.0002	<0.0002		<0.0002			
3/15/2021	<0.0002	<0.0002	<0.0002		<0.0002	0.000111 (J)	0.000142 (J)	<0.0002
3/16/2021				0.0112				
8/17/2021				0.0119				
8/18/2021	<0.0002	9E-05 (J)	9E-05 (J)		<0.0002			
8/23/2021						<0.0002	0.00019 (J)	<0.0002
3/28/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	0.00015 (J)
4/5/2022				0.01				

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Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.0002			
1/15/2019				<0.0002		0.0514	<0.0002	0.002 (J)
1/16/2019		<0.0002						
1/17/2019	<0.0002							
1/30/2019			0.0034 (J)					
9/10/2019	<0.0002						<0.0002	
9/11/2019		<0.0002	0.00222 (J)		<0.0002	0.053		0.00208 (J)
4/20/2020							<0.0002	
4/21/2020		<0.0002						
4/22/2020	<0.0002		0.00168 (J)	0.00768	<0.0002	0.0533		
4/29/2020								0.00182 (J)
8/11/2020			0.00223 (J)			0.0635		
8/12/2020	<0.0002						<0.0002	
8/18/2020		<0.0002						0.00171 (J)
8/19/2020				0.00618	<0.0002			
3/9/2021			0.00291			0.0697		
3/10/2021					<0.0002		0.000443	
3/15/2021	0.000158 (J)							0.00174
3/16/2021		0.0001 (J)		0.00685				
8/23/2021	0.00042							
8/24/2021		0.0001 (J)	0.00235	0.00811	0.00012 (J)	0.069		
8/25/2021							0.00043	0.00182
3/28/2022	0.00013 (J)							
3/29/2022				0.011				
3/30/2022			0.00263		9E-05 (J)		0.00027	
4/6/2022		0.00013 (J)				0.0524		0.00197

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Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.00372 (J)							
1/16/2019		0.00816	<0.0002					
9/11/2019	0.00583	0.0124	0.00269 (J)					
4/20/2020			0.00215 (J)	0.00153 (J)				
4/21/2020	0.00417 (J)	0.0101					0.0021 (J)	<0.0002
5/28/2020						<0.0002		
7/6/2020					<0.0002			
8/11/2020					<0.0002	<0.0002		
8/12/2020			0.00197 (J)					
8/17/2020				<0.0002			<0.0002	
8/19/2020	0.00445 (J)	0.0103						<0.0002
3/8/2021					0.000339	0.000152 (J)		
3/9/2021	0.00343	0.0117						
3/10/2021			0.00172	0.00147			0.000557	0.000592
8/17/2021					0.00027	0.00014 (J)		
8/18/2021	0.00456	0.0116		0.00143			0.00025	0.00074
8/23/2021			0.00263					
3/23/2022					0.00017 (J)	<0.0002		
3/29/2022				0.00106				
3/30/2022							0.00014 (J)	0.00041
4/4/2022			0.00187					
4/6/2022	0.00515	0.011						

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Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.353							
4/12/2016	0.402							
5/31/2016	0.33							
8/17/2016	0.369							
10/11/2016	0.378							
1/24/2017	0.386							
5/9/2017	0.406							
6/28/2017	0.353							
2/27/2018	0.425							
6/5/2018	0.454							
11/6/2018	0.432							
3/27/2019	0.455							
9/11/2019	0.406							
4/20/2020				0.0806	0.41		0.0375	
4/21/2020	0.42							
5/28/2020		<0.0002				<0.0002		0.00208 (J)
7/6/2020			<0.0002					
8/11/2020		<0.0002	<0.0002	0.0869		<0.0002		<0.0002
8/12/2020	0.415				0.467		0.0467	
3/8/2021		0.000267	0.00027					
3/9/2021						0.00013 (J)		0.00103
3/10/2021				0.213	0.45		0.0196	
3/16/2021	0.473							
8/16/2021			0.00014 (J)					
8/17/2021		0.00032				9E-05 (J)		0.0007
8/23/2021	0.368			0.225	0.454		0.029	
3/23/2022		0.00014 (J)	0.00026			<0.0002		0.00082
4/4/2022	0.432							
4/5/2022					0.401		0.00687	
4/6/2022				0.229				

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Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.0002
2/17/2016	<0.0002						<0.0002	
4/12/2016	<0.0002							
4/13/2016							<0.0002	<0.0002
5/31/2016	<0.0002						<0.0002	
6/1/2016								<0.0002
8/17/2016	<0.0002						<0.0002	<0.0002
10/11/2016	<0.0002							
10/12/2016							<0.0002	<0.0002
1/24/2017	<0.0002							
1/25/2017							<0.0002	<0.0002
5/10/2017	<0.0002						<0.0002	<0.0002
6/28/2017	<0.0002						<0.0002	<0.0002
2/27/2018	<0.0002						<0.0002	<0.0002
6/5/2018	<0.0002						<0.0002	<0.0002
11/7/2018	<0.0002						<0.0002	<0.0002
3/26/2019	<0.0002						<0.0002	<0.0002
9/10/2019	<0.0002						<0.0002	<0.0002
4/21/2020	<0.0002						<0.0002	<0.0002
8/19/2020	<0.0002						<0.0002	<0.0002
3/9/2021	0.000303						0.00015 (J)	0.000248
8/17/2021		<0.0002	0.00039	0.00026	0.00012 (J)	0.00051		
8/24/2021	0.00028						0.0001 (J)	0.00027
3/23/2022		<0.0002	0.00025	0.00011 (J)	<0.0002	0.0003		
3/29/2022	0.00013 (J)						8E-05 (J)	0.00015 (J)

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Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.00507	
4/13/2016	0.00556	
6/1/2016	0.00625	
8/17/2016	0.00648	
10/12/2016	0.00772	
1/25/2017	0.00728	
5/10/2017	0.00818	
6/28/2017	0.00718	
2/27/2018	0.00946	
6/5/2018	0.00921	
11/7/2018	0.0098	
3/26/2019	0.00969	
9/10/2019	0.0108	0.00176 (J)
4/20/2020		0.0029 (J)
4/21/2020	0.0102	
8/17/2020		0.00191 (J)
8/18/2020	0.0108	
3/9/2021	0.0105	
3/10/2021		0.00597
8/17/2021		0.0021
8/24/2021	0.00695	
3/29/2022	0.00316	
4/5/2022		0.00404

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Constituent: Barium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.179		0.0231	0.113	0.0447		
2/17/2016	0.0364		0.105				0.022	0.0368
4/12/2016					0.0912	0.043	0.0242	
4/13/2016	0.0344	0.185	0.106	0.02				0.044
5/31/2016		0.158	0.0907	0.0175	0.0963	0.0383	0.0224	
6/1/2016	0.0353							0.0357
8/15/2016	0.0395							0.0377
8/16/2016		0.16	0.0989	0.0182	0.0878		0.0243	
8/17/2016						0.0332		
10/11/2016	0.0455						0.0291	
10/12/2016		0.17	0.113	0.0221	0.112	0.0454		0.0431
1/24/2017	0.0428						0.0223	0.0418
1/25/2017		0.156	0.103	0.0187	0.114	0.0567		
5/9/2017	0.0399		0.125	0.0232	0.1	0.069		
5/10/2017		0.169					0.0281	0.0449
6/27/2017	0.0348						0.0223	0.042
6/28/2017		0.144	0.103	0.0178	0.0874	0.0764		
2/27/2018	0.0398	0.172	0.0718			0.0908		
2/28/2018				0.0197	0.0984		0.0271	0.0595
6/4/2018	0.0314							
6/5/2018		0.173	0.0643				0.0269	0.0471
6/6/2018				0.0204	0.0951	0.064		
11/5/2018			0.0588	0.0255	0.113			
11/6/2018	0.0348						0.0271	0.0574
11/7/2018		0.171				0.0575		
3/26/2019				0.0218	0.109		0.0282	0.0626
3/27/2019	0.0286	0.167	0.0678			0.0768		
9/10/2019	0.0283	0.199	0.0651	0.0233		0.0685	0.0348	0.0754
9/11/2019					0.275			
4/20/2020					0.104		0.0338	0.0921
4/21/2020	0.0206			0.0325		0.102		
4/22/2020		0.186	0.0967					
8/11/2020						0.0806		0.0948
8/12/2020							0.0352	
8/17/2020	0.0218							
8/18/2020		0.223	0.0866	0.021	0.199			
3/9/2021						0.125		0.102
3/10/2021			0.0637	0.0373			0.0365	
3/15/2021		0.261			0.0699			
3/16/2021	0.024							
8/17/2021	0.0211							0.101
8/24/2021		0.287						
8/25/2021			0.104	0.0323	0.114	0.11	0.0402	
3/29/2022				0.0355			0.0381	
3/30/2022			0.0485					
4/4/2022	0.0235	0.26				0.103		
4/6/2022					0.0701			0.103

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Constituent: Barium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.0379				
2/17/2016	0.0402	0.12	0.0311		0.0285	0.0305	0.0895	
4/12/2016		0.131			0.035	0.0312	0.0966	
4/13/2016	0.0637		0.0334	0.0291				
6/1/2016	0.0786	0.114	0.029	0.0254	0.0328	0.0298	0.0872	
8/15/2016	0.0634	0.113	0.0317					
8/16/2016				0.0385	0.033	0.0308		
8/17/2016							0.0875	0.0476
9/20/2016								0.0436
10/11/2016			0.0339		0.0352	0.042	0.1	
10/12/2016	0.0995	0.126		0.0486				0.0397
11/15/2016								0.0369
1/4/2017								0.0518
1/23/2017								0.0662
1/24/2017	0.117	0.126	0.0276		0.0286	0.0446	0.0856	
1/25/2017				0.0371				
5/9/2017			0.0285	0.0454	0.0257		0.093	0.0691
5/10/2017	0.158	0.138				0.0568		
6/27/2017	0.139	0.12			0.0246			0.0603
6/28/2017			0.0273	0.0352		0.0663	0.0829	
2/27/2018			0.0292		0.0287	0.101		0.0386
2/28/2018	0.199	0.143		0.0376			0.0958	
6/4/2018			0.0298					
6/5/2018	0.149	0.128			0.0279	0.108		0.0356
6/6/2018				0.0355			0.0892	
11/5/2018				0.0509				
11/6/2018	0.202	0.109	0.0286				0.0807	0.0387
11/7/2018					0.0281	0.1		
3/26/2019	0.242	0.117		0.047	0.0295	0.0978		0.0419
3/27/2019			0.0311				0.0901	
9/9/2019	0.319	0.101	0.035					
9/10/2019				0.0568	0.0338	0.0967	0.101	
9/11/2019								0.0468
4/21/2020	0.306	0.0926	0.0335	0.0763	0.0296			0.0439
4/22/2020						0.0738	0.11	
8/11/2020	0.29						0.111	
8/12/2020		0.0815			0.0311	0.0788		
8/17/2020			0.0376					
8/18/2020				0.0517				0.0409
3/9/2021	0.352	0.0849						
3/10/2021				0.111	0.0305	0.0873	0.0797	
3/15/2021								0.0351
3/16/2021			0.033					
8/17/2021	0.254	0.0763	0.0347					
8/18/2021								0.0311
8/24/2021					0.0311	0.07	0.0988	
8/25/2021				0.0865				
3/28/2022			0.0301		0.0264			
3/29/2022							0.0717	
3/30/2022				0.112				
4/4/2022	0.27					0.0635		0.0335
4/6/2022		0.0769						

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Constituent: Barium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.0896				
4/12/2016				0.0994				
6/1/2016				0.104				
8/15/2016				0.102				
8/16/2016			0.0527		0.0376	0.0226	0.0134	0.0304
8/17/2016	0.0803	0.336						
9/19/2016						0.0202	0.0125	0.0215
9/20/2016	0.0679	0.341	0.0698		0.0348			
10/11/2016			0.0799	0.11	0.0396	0.0219	0.0128	0.0236
10/12/2016	0.0644	0.347						
11/14/2016						0.0215	0.0129	0.0206
11/15/2016	0.0628	0.332	0.0479		0.0359			
1/3/2017						0.019	0.0116	0.0409
1/4/2017	0.0477	0.299	0.0513		0.0238			
1/23/2017	0.0482				0.029			
1/24/2017		0.264		0.0942		0.0167	0.0118	
1/25/2017								0.0455
1/26/2017			0.0674					
5/9/2017	0.0611	0.322	0.0836	0.105	0.0409			
5/10/2017						0.0246	0.0142	0.0798
6/27/2017	0.0492	0.278	0.0661		0.0303	0.0238	0.0127	0.0679
6/28/2017				0.104				
2/27/2018	0.0463	0.312	0.05	0.0989	0.0383	0.0231	0.0135	0.0856
6/4/2018				0.0936				
6/5/2018	0.0298	0.243	0.0433		0.0633	0.0228	0.0126	0.0875
11/5/2018							0.0123	
11/6/2018	0.0582	0.249	0.0379	0.0936	0.0463	0.0211		0.0726
3/26/2019	0.0499	0.232	0.0348		0.101			
3/27/2019				0.0951		0.025	0.0134	0.0912
9/9/2019				0.111				
9/11/2019	0.0574	0.246	0.0404		0.0855	0.0267	0.0147	0.0824
4/20/2020				0.109				
4/21/2020	0.0827	0.219	0.0542		0.0485			
4/22/2020						0.0285	0.0133	0.102
8/11/2020						0.0264		
8/12/2020							0.0127	0.0601
8/17/2020				0.139				
8/18/2020	0.0734	0.211	0.0442		0.0529			
3/15/2021	0.069	0.222	0.0545		0.0462	0.0316	0.0692	0.0144
3/16/2021				0.159				
8/17/2021				0.15				
8/18/2021	0.0607	0.198	0.0554		0.0329			
8/23/2021						0.0317	0.0764	0.0141
3/28/2022	0.0625	0.186	0.0337		0.0286	0.0325	0.0132	0.0773
4/5/2022				0.145				

Time Series

Constituent: Barium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.0814			
1/15/2019				0.0454		0.185	0.0361	0.13
1/16/2019		0.0492						
1/17/2019	0.0714							
1/30/2019			0.00776 (J)					
9/10/2019	0.0554						0.0294	
9/11/2019		0.0369	0.00323 (J)		0.0581	0.173		0.1
4/20/2020							0.0282	
4/21/2020		0.0473						
4/22/2020	0.0578		0.0027 (J)	0.0248	0.0607	0.192		
4/29/2020								0.0998
8/11/2020			0.00393 (J)			0.177		
8/12/2020	0.0467						0.0295	
8/18/2020		0.033						0.0879
8/19/2020				0.0591	0.0678			
3/9/2021			0.00297			0.206		
3/10/2021					0.0719		0.0322	
3/15/2021	0.0532							0.116
3/16/2021		0.04		0.0347				
8/23/2021	0.0478							
8/24/2021		0.0336	0.00261	0.037	0.0872	0.213		
8/25/2021							0.0296	0.128
3/28/2022	0.0481							
3/29/2022				0.0235				
3/30/2022			0.00372		0.0702		0.0277	
4/6/2022		0.0385				0.178		0.145

Time Series

Constituent: Barium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.162							
1/16/2019		0.12	0.131					
9/11/2019	0.123	0.127	0.0797					
4/20/2020			0.0594	0.0898				
4/21/2020	0.108	0.156					0.028	0.0437
5/28/2020						0.0267		
7/6/2020					0.0613			
8/11/2020					0.0653	0.0204		
8/12/2020			0.0589					
8/17/2020				0.0632			0.027	
8/19/2020	0.119	0.168						0.0394
3/8/2021					0.0523	0.0229		
3/9/2021	0.135	0.211						
3/10/2021			0.064	0.0543			0.0281	0.0406
8/17/2021					0.0563	0.0297		
8/18/2021	0.145	0.187		0.0942			0.0239	0.0492
8/23/2021			0.0596					
3/23/2022					0.0595	0.0332		
3/29/2022				0.0534				
3/30/2022							0.0253	0.0642
4/4/2022			0.0482					
4/6/2022	0.147	0.168						

Time Series

Constituent: Barium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.397							
4/12/2016	0.434							
5/31/2016	0.354							
8/17/2016	0.397							
10/11/2016	0.485							
1/24/2017	0.472							
5/9/2017	0.512							
6/28/2017	0.48							
2/27/2018	0.269							
6/5/2018	0.27							
11/6/2018	0.306							
3/27/2019	0.251							
9/11/2019	0.323							
4/20/2020				0.278	0.259		0.0771	
4/21/2020	0.138							
5/28/2020		0.0701				0.0389		0.127
7/6/2020			0.129					
8/11/2020		0.064	0.116	0.246		0.0337		0.0909
8/12/2020	0.134				0.221		0.0796	
3/8/2021		0.0685	0.131					
3/9/2021						0.0404		0.0795
3/10/2021				0.393	0.19		0.103	
3/16/2021	0.143							
8/16/2021			0.129					
8/17/2021		0.0707				0.0317		0.0669
8/23/2021	0.139			0.377	0.2		0.084	
3/23/2022		0.0762	0.149			0.0352		0.0627
4/4/2022	0.131							
4/5/2022					0.18		0.088	
4/6/2022				0.382				

Time Series

Constituent: Barium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								0.117
2/17/2016	0.0455						0.0772	
4/12/2016	0.0455							
4/13/2016							0.0886	0.113
5/31/2016	0.0407						0.0823	
6/1/2016								0.105
8/17/2016	0.0434						0.0789	0.105
10/11/2016	0.0514							
10/12/2016							0.0883	0.111
1/24/2017	0.0476							
1/25/2017							0.067	0.0963
5/10/2017	0.0543						0.0644	0.103
6/28/2017	0.0402						0.0582	0.0935
2/27/2018	0.0463						0.0669	0.0808
6/5/2018	0.051						0.0672	0.0789
11/7/2018	0.0527						0.0739	0.0855
3/26/2019	0.0682						0.0796	0.0911
9/10/2019	0.0789						0.0887	0.11
4/21/2020	0.0728						0.0762	0.116
8/19/2020	0.0784						0.0816	0.119
3/9/2021	0.0664						0.083	0.15
8/17/2021		0.0379	0.0383	0.0727	0.0597	0.0762		
8/24/2021	0.0737						0.0782	0.122
3/23/2022		0.0338	0.0411	0.0807	0.0498	0.094		
3/29/2022	0.0614						0.0639	0.104

Time Series

Constituent: Barium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.0637	
4/13/2016	0.0552	
6/1/2016	0.0555	
8/17/2016	0.0745	
10/12/2016	0.0897	
1/25/2017	0.0864	
5/10/2017	0.105	
6/28/2017	0.0897	
2/27/2018	0.118	
6/5/2018	0.111	
11/7/2018	0.141	
3/26/2019	0.175	
9/10/2019	0.206	0.0787
4/20/2020		0.0801
4/21/2020	0.175	
8/17/2020		0.0718
8/18/2020	0.165	
3/9/2021	0.16	
3/10/2021		0.0759
8/17/2021		0.0781
8/24/2021	0.168	
3/29/2022	0.139	
4/5/2022		0.0665

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.00102		<0.00102	<0.00102	<0.00102		
2/17/2016	<0.00102		<0.00102				<0.00102	<0.00102
4/12/2016					<0.00102	<0.00102	<0.00102	
4/13/2016	<0.00102	<0.00102	<0.00102	<0.00102				<0.00102
5/31/2016		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
6/1/2016	<0.00102							<0.00102
8/15/2016	<0.00102							<0.00102
8/16/2016		<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	
8/17/2016						<0.00102		
10/11/2016	<0.00102						<0.00102	
10/12/2016		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
1/24/2017	<0.00102						<0.00102	<0.00102
1/25/2017		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
5/9/2017	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102		
5/10/2017		<0.00102					<0.00102	<0.00102
6/27/2017	<0.00102						<0.00102	<0.00102
6/28/2017		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
2/27/2018	<0.00102	<0.00102	<0.00102			<0.00102		
2/28/2018				<0.00102	<0.00102		<0.00102	<0.00102
6/4/2018	<0.00102							
6/5/2018		<0.00102	<0.00102				<0.00102	<0.00102
6/6/2018				<0.00102	<0.00102	<0.00102		
11/5/2018			<0.00102	<0.00102	<0.00102			
11/6/2018	<0.00102						<0.00102	<0.00102
11/7/2018		<0.00102				<0.00102		
3/26/2019				<0.00102	<0.00102		<0.00102	<0.00102
3/27/2019	<0.00102	<0.00102	<0.00102			<0.00102		
9/10/2019	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102
9/11/2019					<0.00102			
4/20/2020					<0.00102		<0.00102	<0.00102
4/21/2020	<0.00102			<0.00102		<0.00102		
4/22/2020		<0.00102	<0.00102					
8/11/2020						<0.00102		<0.00102
8/12/2020							<0.00102	
8/17/2020	<0.00102							
8/18/2020		<0.00102	<0.00102	<0.00102	<0.00102			
3/9/2021						<0.00102		<0.00102
3/10/2021			<0.00102	<0.00102			<0.00102	
3/15/2021		<0.00102			<0.00102			
3/16/2021	<0.00102							
8/17/2021	<0.00102							<0.00102
8/24/2021		<0.00102						
8/25/2021			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
3/29/2022				<0.00102			<0.00102	
3/30/2022			<0.00102					
4/4/2022	<0.00102	<0.00102				<0.00102		
4/6/2022					<0.00102			<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.00102				
2/17/2016	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	
4/12/2016		<0.00102			<0.00102	<0.00102	<0.00102	
4/13/2016	<0.00102		<0.00102	<0.00102				
6/1/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
8/15/2016	<0.00102	<0.00102	<0.00102					
8/16/2016				<0.00102	<0.00102	<0.00102		
8/17/2016							<0.00102	0.00161 (J)
9/20/2016								0.00155 (J)
10/11/2016			<0.00102		<0.00102	<0.00102	0.000715 (J)	
10/12/2016	<0.00102	<0.00102		<0.00102				0.00138 (J)
11/15/2016								0.00109 (J)
1/4/2017								0.00141 (J)
1/23/2017								0.00171 (J)
1/24/2017	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	
1/25/2017				<0.00102				
5/9/2017			<0.00102	<0.00102	<0.00102		<0.00102	0.00226 (J)
5/10/2017	<0.00102	<0.00102				<0.00102		
6/27/2017	<0.00102	<0.00102			<0.00102			0.0017 (J)
6/28/2017			<0.00102	<0.00102		<0.00102	<0.00102	
2/27/2018			<0.00102		<0.00102	<0.00102		0.00147 (J)
2/28/2018	<0.00102	<0.00102		<0.00102			<0.00102	
6/4/2018			<0.00102					
6/5/2018	<0.00102	<0.00102			<0.00102	<0.00102		0.000821 (J)
6/6/2018				<0.00102			<0.00102	
11/5/2018				<0.00102				
11/6/2018	<0.00102	<0.00102	<0.00102				<0.00102	0.000757 (J)
11/7/2018					<0.00102	<0.00102		
3/26/2019	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102		0.00092 (J)
3/27/2019			<0.00102				<0.00102	
9/9/2019	<0.00102	<0.00102	<0.00102					
9/10/2019				<0.00102	<0.00102	<0.00102	<0.00102	
9/11/2019								<0.00102
4/21/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			0.000756 (J)
4/22/2020						<0.00102	<0.00102	
8/11/2020	<0.00102						<0.00102	
8/12/2020		<0.00102			<0.00102	<0.00102		
8/17/2020			<0.00102					
8/18/2020				<0.00102				0.000828 (J)
3/9/2021	<0.00102	<0.00102						
3/10/2021				<0.00102	<0.00102	<0.00102	<0.00102	
3/15/2021								0.000453 (J)
3/16/2021			<0.00102					
8/17/2021	<0.00102	<0.00102	<0.00102					
8/18/2021								0.00041 (J)
8/24/2021					<0.00102	<0.00102	<0.00102	
8/25/2021				<0.00102				
3/28/2022			<0.00102		<0.00102			
3/29/2022							<0.00102	
3/30/2022				<0.00102				
4/4/2022	<0.00102					<0.00102		<0.00102
4/6/2022		<0.00102						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.00102				
4/12/2016				<0.00102				
6/1/2016				<0.00102				
8/15/2016				<0.00102				
8/16/2016			<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
8/17/2016	<0.00102	<0.00102						
9/19/2016						<0.00102	<0.00102	<0.00102
9/20/2016	<0.00102	<0.00102	<0.00102		<0.00102			
10/11/2016			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/12/2016	<0.00102	<0.00102						
11/14/2016						<0.00102	<0.00102	<0.00102
11/15/2016	<0.00102	<0.00102	<0.00102		<0.00102			
1/3/2017						<0.00102	<0.00102	<0.00102
1/4/2017	<0.00102	<0.00102	<0.00102		<0.00102			
1/23/2017	<0.00102				<0.00102			
1/24/2017		<0.00102		<0.00102		<0.00102	<0.00102	
1/25/2017								<0.00102
1/26/2017			<0.00102					
5/9/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			
5/10/2017						<0.00102	<0.00102	<0.00102
6/27/2017	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
6/28/2017				<0.00102				
2/27/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/4/2018				<0.00102				
6/5/2018	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
11/5/2018							<0.00102	
11/6/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
3/26/2019	<0.00102	<0.00102	<0.00102		<0.00102			
3/27/2019				<0.00102		<0.00102	<0.00102	<0.00102
9/9/2019				<0.00102				
9/11/2019	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
4/20/2020				<0.00102				
4/21/2020	<0.00102	<0.00102	<0.00102		<0.00102			
4/22/2020						<0.00102	<0.00102	<0.00102
8/11/2020						<0.00102		
8/12/2020							<0.00102	<0.00102
8/17/2020				<0.00102				
8/18/2020	<0.00102	<0.00102	<0.00102		<0.00102			
3/15/2021	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
3/16/2021				<0.00102				
8/17/2021				<0.00102				
8/18/2021	<0.00102	<0.00102	<0.00102		<0.00102			
8/23/2021						<0.00102	<0.00102	<0.00102
3/28/2022	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
4/5/2022				<0.00102				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.00102			
1/15/2019				<0.00102		<0.00102	<0.00102	<0.00102
1/16/2019		<0.00102						
1/17/2019	<0.00102							
1/30/2019			<0.00102					
9/10/2019	<0.00102						<0.00102	
9/11/2019		<0.00102	<0.00102		<0.00102	<0.00102		<0.00102
4/20/2020							<0.00102	
4/21/2020		<0.00102						
4/22/2020	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102		
4/29/2020								<0.00102
8/11/2020			<0.00102			<0.00102		
8/12/2020	<0.00102						<0.00102	
8/18/2020		<0.00102						<0.00102
8/19/2020				<0.00102	<0.00102			
3/9/2021			<0.00102			<0.00102		
3/10/2021					<0.00102		<0.00102	
3/15/2021	<0.00102							<0.00102
3/16/2021		<0.00102		<0.00102				
8/23/2021	<0.00102							
8/24/2021		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
8/25/2021							<0.00102	<0.00102
3/28/2022	<0.00102							
3/29/2022				<0.00102				
3/30/2022			<0.00102		<0.00102		<0.00102	
4/6/2022		<0.00102				<0.00102		<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.00102							
1/16/2019		<0.00102	<0.00102					
9/11/2019	<0.00102	<0.00102	<0.00102					
4/20/2020			<0.00102	<0.00102				
4/21/2020	<0.00102	<0.00102					<0.00102	<0.00102
5/28/2020						<0.00102		
7/6/2020					<0.00102			
8/11/2020					<0.00102	<0.00102		
8/12/2020			<0.00102					
8/17/2020				<0.00102			<0.00102	
8/19/2020	<0.00102	<0.00102						<0.00102
3/8/2021					<0.00102	<0.00102		
3/9/2021	<0.00102	<0.00102						
3/10/2021			<0.00102	<0.00102			<0.00102	<0.00102
8/17/2021					<0.00102	<0.00102		
8/18/2021	<0.00102	<0.00102		<0.00102			<0.00102	<0.00102
8/23/2021			<0.00102					
3/23/2022					<0.00102	<0.00102		
3/29/2022				<0.00102				
3/30/2022							<0.00102	<0.00102
4/4/2022			<0.00102					
4/6/2022	<0.00102	<0.00102						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.00102							
4/12/2016	<0.00102							
5/31/2016	<0.00102							
8/17/2016	<0.00102							
10/11/2016	<0.00102							
1/24/2017	<0.00102							
5/9/2017	<0.00102							
6/28/2017	<0.00102							
2/27/2018	<0.00102							
6/5/2018	<0.00102							
11/6/2018	<0.00102							
3/27/2019	<0.00102							
9/11/2019	<0.00102							
4/20/2020				<0.00102	<0.00102		<0.00102	
4/21/2020	<0.00102							
5/28/2020		<0.00102				<0.00102		0.000799 (J)
7/6/2020			<0.00102					
8/11/2020		<0.00102	<0.00102	<0.00102		<0.00102		<0.00102
8/12/2020	<0.00102				<0.00102		<0.00102	
3/8/2021		<0.00102	<0.00102					
3/9/2021						<0.00102		<0.00102
3/10/2021				<0.00102	<0.00102		<0.00102	
3/16/2021	<0.00102							
8/16/2021			<0.00102					
8/17/2021		<0.00102				<0.00102		<0.00102
8/23/2021	<0.00102			<0.00102	<0.00102		<0.00102	
3/23/2022		<0.00102	<0.00102			<0.00102		<0.00102
4/4/2022	<0.00102							
4/5/2022					<0.00102		<0.00102	
4/6/2022				<0.00102				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.00102
2/17/2016	<0.00102						<0.00102	
4/12/2016	<0.00102							
4/13/2016							<0.00102	<0.00102
5/31/2016	<0.00102						<0.00102	
6/1/2016								<0.00102
8/17/2016	<0.00102						<0.00102	<0.00102
10/11/2016	<0.00102							
10/12/2016							<0.00102	<0.00102
1/24/2017	<0.00102							
1/25/2017							<0.00102	<0.00102
5/10/2017	<0.00102						<0.00102	<0.00102
6/28/2017	<0.00102						<0.00102	<0.00102
2/27/2018	<0.00102						<0.00102	<0.00102
6/5/2018	<0.00102						<0.00102	<0.00102
11/7/2018	<0.00102						<0.00102	<0.00102
3/26/2019	<0.00102						<0.00102	<0.00102
9/10/2019	<0.00102						<0.00102	<0.00102
4/21/2020	<0.00102						<0.00102	<0.00102
8/19/2020	<0.00102						<0.00102	<0.00102
3/9/2021	<0.00102						<0.00102	<0.00102
8/17/2021		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
8/24/2021	<0.00102						<0.00102	<0.00102
3/23/2022		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
3/29/2022	<0.00102						<0.00102	<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.00102	
4/13/2016	<0.00102	
6/1/2016	<0.00102	
8/17/2016	<0.00102	
10/12/2016	<0.00102	
1/25/2017	<0.00102	
5/10/2017	<0.00102	
6/28/2017	<0.00102	
2/27/2018	<0.00102	
6/5/2018	<0.00102	
11/7/2018	<0.00102	
3/26/2019	<0.00102	
9/10/2019	<0.00102	<0.00102
4/20/2020		<0.00102
4/21/2020	<0.00102	
8/17/2020		<0.00102
8/18/2020	<0.00102	
3/9/2021	<0.00102	
3/10/2021		<0.00102
8/17/2021		<0.00102
8/24/2021	<0.00102	
3/29/2022	<0.00102	
4/5/2022		<0.00102

Time Series

Constituent: Boron (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		1.44		0.273	0.26	0.739		
2/17/2016	0.219		0.581				0.454	1.47
4/12/2016					0.26	0.733	0.444	
4/13/2016	0.211	0.373	0.61	0.276				1.48
5/31/2016		1.26	0.615	0.291	0.318	0.603	0.424	
6/1/2016	0.2							1.22
8/15/2016	0.211							1.31
8/16/2016		1.34	0.554	0.268	0.322		0.438	
8/17/2016						0.509		
10/11/2016	0.23						0.456	
10/12/2016		1.34	0.537	0.252	0.244	0.569		1.37
1/24/2017	0.218						0.458	1.38
1/25/2017		1.38	0.562	0.167	0.188	0.671		
5/9/2017	0.235		0.528	0.32	0.281	0.622		
5/10/2017		1.23					0.486	1.41
6/27/2017	0.206						0.454	1.43
6/28/2017		1.05	0.313	0.231	0.153	0.695		
8/29/2017		1.17	0.241	0.191	0.112	1		
8/30/2017	0.138						0.441	1.36
6/4/2018	0.242							
6/5/2018		1.31	0.311				0.543	1.36
6/6/2018				0.26	0.244	1.01		
11/5/2018			0.262	0.127	0.104			
11/6/2018	0.247						0.614	1.47
11/7/2018		1.26				0.908		
3/26/2019				0.111	0.213		0.697	1.38
3/27/2019	0.488	1.11	0.298			1.33		
9/10/2019	0.398	1.27	0.141	0.153		1.49	0.73	1.69
9/11/2019					0.535			
4/20/2020					0.642		0.791	1.83
4/21/2020	0.347			0.872		1.55		
4/22/2020		1.23	0.447					
8/11/2020						1.44		1.93
8/12/2020							0.813	
8/17/2020	0.496							
8/18/2020		1.37	0.358	0.748	0.501			
3/9/2021						1.81		1.94
3/10/2021			0.502	0.389			0.825	
3/15/2021		1.79			0.523			
3/16/2021	0.313							
8/17/2021	0.281							1.98
8/24/2021		1.93						
8/25/2021			0.601	0.393	0.438	1.33	0.83	
3/29/2022				0.416			0.848	
3/30/2022			0.472					
4/4/2022	0.269	1.92				1.89		
4/6/2022					0.26			2.17

Time Series

Constituent: Boron (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.286				
2/17/2016	1.66	1.94	0.146		0.0271 (J)	<0.1015	0.0922 (J)	
4/12/2016		2.03			<0.1015	<0.1015	0.0935 (J)	
4/13/2016	1.64		0.125	0.26				
6/1/2016	1.66	1.74	0.114	0.283	<0.1015	<0.1015	0.0826 (J)	
8/15/2016	1.83	1.66	0.128					
8/16/2016				0.292	<0.1015	<0.1015		
8/17/2016							0.092 (J)	<0.1015
9/20/2016								<0.1015
10/11/2016			0.129		0.024 (J)	<0.1015	0.0976 (J)	
10/12/2016	2.12	1.77		0.254				<0.1015
11/15/2016								<0.1015
1/4/2017								<0.1015
1/23/2017								0.0217 (J)
1/24/2017	1.94	1.49	0.124		0.0333 (J)	<0.1015	0.0877 (J)	
1/25/2017				0.133				
5/9/2017			0.121	0.304	<0.1015		0.0953 (J)	<0.1015
5/10/2017	1.99	1.65				<0.1015		
6/27/2017	2.18	1.66			<0.1015			<0.1015
6/28/2017			0.111	0.243		<0.1015	0.0835 (J)	
8/29/2017				0.249	<0.1015	<0.1015	0.0914 (J)	<0.1015
8/30/2017	1.71	1.53	0.0915 (J)					
6/4/2018			0.134					
6/5/2018	1.76	1.36			<0.1015	<0.1015		<0.1015
6/6/2018				0.245			0.102	
11/5/2018				0.151				
11/6/2018	1.74	1.48	0.131				0.0995 (J)	<0.1015
11/7/2018					<0.1015	<0.1015		
3/26/2019	1.74	1.63		0.0834 (J)	<0.1015	<0.1015		<0.1015
3/27/2019			0.138				0.113	
9/9/2019	2.33	1.73	0.157					
9/10/2019				0.16	<0.1015	<0.1015	0.105	
9/11/2019								<0.1015
4/21/2020	1.97	1.51	0.14	0.586	<0.1015			<0.1015
4/22/2020						<0.1015	0.104	
8/11/2020	2.03						0.11	
8/12/2020		1.53			<0.1015	<0.1015		
8/17/2020			0.152					
8/18/2020				0.211				<0.1015
3/9/2021	2.45	1.52						
3/10/2021				0.528	<0.1015	<0.1015	0.146	
3/15/2021								<0.1015
3/16/2021			0.134					
8/17/2021	2.18	1.45	0.131					
8/18/2021								<0.1015
8/24/2021					<0.1015	<0.1015	0.115	
8/25/2021				0.288				
3/28/2022			0.125		<0.1015			
3/29/2022							0.122	
3/30/2022				0.696				
4/4/2022	2.32					<0.1015		<0.1015
4/6/2022		1.6						

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Constituent: Boron (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.0288 (J)				
4/12/2016				0.0293 (J)				
6/1/2016				0.0279 (J)				
8/15/2016				0.0332 (J)				
8/16/2016			<0.1015		<0.1015	<0.1015	<0.1015	0.0268 (J)
8/17/2016	<0.1015	<0.1015						
9/19/2016						<0.1015	<0.1015	0.0225 (J)
9/20/2016	<0.1015	<0.1015	<0.1015		<0.1015			
10/11/2016			<0.1015	0.0328 (J)	<0.1015	<0.1015	<0.1015	0.0304 (J)
10/12/2016	0.02 (J)	<0.1015						
11/14/2016						<0.1015	<0.1015	0.0355 (J)
11/15/2016	<0.1015	<0.1015	0.0229 (J)		<0.1015			
1/3/2017						<0.1015	<0.1015	0.0304 (J)
1/4/2017	<0.1015	<0.1015	<0.1015		<0.1015			
1/23/2017	0.0287 (J)				<0.1015			
1/24/2017		0.0331 (J)		0.0262 (J)		0.0282 (J)	<0.1015	
1/25/2017								<0.1015
1/26/2017			<0.1015					
5/9/2017	<0.1015	<0.1015	<0.1015	0.0298 (J)	<0.1015			
5/10/2017						<0.1015	<0.1015	<0.1015
6/27/2017	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
6/28/2017				0.0226 (J)				
8/29/2017	<0.1015							
8/30/2017		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/4/2018				0.0296 (J)				
6/5/2018	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
11/5/2018							<0.1015	
11/6/2018	<0.1015	<0.1015	<0.1015	0.0268 (J)	<0.1015	<0.1015		<0.1015
3/26/2019	<0.1015	<0.1015	<0.1015		<0.1015			
3/27/2019				0.0316 (J)		<0.1015	<0.1015	<0.1015
9/9/2019				0.035 (J)				
9/11/2019	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
4/20/2020				<0.1015				
4/21/2020	<0.1015	<0.1015	<0.1015		<0.1015			
4/22/2020						<0.1015	<0.1015	<0.1015
8/11/2020						<0.1015		
8/12/2020							<0.1015	<0.1015
8/17/2020				0.0636 (J)				
8/18/2020	<0.1015	<0.1015	<0.1015		<0.1015			
3/15/2021	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
3/16/2021				0.0445 (J)				
8/17/2021				0.0518 (J)				
8/18/2021	<0.1015	<0.1015	<0.1015		<0.1015			
8/23/2021						<0.1015	<0.1015	<0.1015
3/28/2022	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
4/5/2022				0.0453 (J)				

Time Series

Constituent: Boron (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.148			
1/15/2019				0.224		1.68	0.702	0.762
1/16/2019		0.0284 (J)						
1/17/2019	<0.1015							
1/30/2019			0.164					
9/10/2019	<0.1015						0.734	
9/11/2019		<0.1015	0.147		0.175	1.67		0.758
4/20/2020							0.821	
4/21/2020		<0.1015						
4/22/2020	<0.1015		0.143	0.186	0.118	1.89		
4/29/2020								0.699
8/11/2020			0.145			1.84		
8/12/2020	<0.1015						0.807	
8/18/2020		<0.1015						0.689
8/19/2020				0.229	0.135			
3/9/2021			0.159			1.81		
3/10/2021					0.104		0.807	
3/15/2021	<0.1015							0.659
3/16/2021		<0.1015		0.159				
8/23/2021	<0.1015							
8/24/2021		<0.1015	0.139	0.179	0.105	2		
8/25/2021							0.627	0.632
3/28/2022	<0.1015							
3/29/2022				0.157				
3/30/2022			0.145		0.102		0.506	
4/6/2022		<0.1015				2.21		0.607

Time Series

Constituent: Boron (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	1.73							
1/16/2019		0.835	0.173					
9/11/2019	1.88	1.07	0.199					
4/20/2020			0.2	0.426				
4/21/2020	1.76	1.08					0.172	0.272
5/28/2020						0.143		
7/6/2020				0.274				
8/11/2020				0.252		0.0903 (J)		
8/12/2020			0.197					
8/17/2020				0.57			0.218	
8/19/2020	1.26	1.15						0.213
3/8/2021					0.658	0.0769 (J)		
3/9/2021	1.26	1.14						
3/10/2021			0.218	0.625			0.188	0.224
8/17/2021					0.392	0.105		
8/18/2021	1.03	1.23		0.646			0.131	0.157
8/23/2021			0.208					
3/23/2022					0.355	0.159		
3/29/2022				0.567				
3/30/2022							0.0985 (J)	0.33
4/4/2022			0.202					
4/6/2022	1.46	1.29						

Time Series

Constituent: Boron (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.478							
4/12/2016	0.467							
5/31/2016	0.443							
8/17/2016	0.477							
10/11/2016	0.489							
1/24/2017	0.475							
5/9/2017	0.479							
6/28/2017	0.448							
8/30/2017	0.407							
6/5/2018	0.489							
11/6/2018	0.508							
3/27/2019	0.502							
9/11/2019	0.595							
4/20/2020				0.309	0.626		0.252	
4/21/2020	0.72							
5/28/2020		0.343				0.0435 (J)		0.208
7/6/2020			1.2					
8/11/2020		0.329	1.25	0.493		0.0406 (J)		0.209
8/12/2020	0.695				0.76		0.338	
3/8/2021		0.302	1.25					
3/9/2021						0.0397 (J)		0.192
3/10/2021				0.338	0.53		0.126	
3/16/2021	0.694							
8/16/2021			1.35					
8/17/2021		0.281				<0.1015		0.192
8/23/2021	0.628			0.517	0.458		0.211	
3/23/2022		0.508	1.33			0.0337 (J)		0.197
4/4/2022	0.615							
4/5/2022					0.462		0.104	
4/6/2022				0.329				

Time Series

Constituent: Boron (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								1.54
2/17/2016	2.12						0.503	
4/12/2016	2.06							
4/13/2016							0.478	1.56
5/31/2016	1.97						0.452	
6/1/2016								1.49
8/17/2016	2.01						0.492	1.57
10/11/2016	1.91							
10/12/2016							0.487	1.65
1/24/2017	1.62							
1/25/2017							0.529	1.89
5/10/2017	1.62						0.533	1.94
6/28/2017	1.71						0.501	1.72
8/29/2017	1.7						0.51	1.63
6/5/2018	1.56						0.605	1.73
11/7/2018	1.6						0.677	1.8
3/26/2019	1.63						0.727	1.81
9/10/2019	1.83						0.764	1.82
4/21/2020	1.77						0.793	1.89
8/19/2020	1.86						0.561	1.94
3/9/2021	1.49						0.397	1.57
8/17/2021		<0.1015	<0.1015	<0.1015	<0.1015	0.571		
8/24/2021	1.36						0.216	1.23
3/23/2022		<0.1015	<0.1015	0.0339 (J)	0.0339 (J)	0.567		
3/29/2022	1.39						0.0842 (J)	1.08

Time Series

Constituent: Boron (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.412	
4/13/2016	0.376	
6/1/2016	0.338	
8/17/2016	0.412	
10/12/2016	0.46	
1/25/2017	0.586	
5/10/2017	0.661	
6/28/2017	0.673	
8/29/2017	0.723	
6/5/2018	0.954	
11/7/2018	1.11	
3/26/2019	1.14	
9/10/2019	1.23	0.293
4/20/2020		0.308
4/21/2020	1.27	
8/17/2020		0.344
8/18/2020	1.24	
3/9/2021	1.12	
3/10/2021		0.338
8/17/2021		0.296
8/24/2021	1.14	
3/29/2022	0.71	
4/5/2022		0.351

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.0002		<0.0002	<0.0002	<0.0002		
2/17/2016	<0.0002		<0.0002				<0.0002	<0.0002
4/12/2016					<0.0002	<0.0002	<0.0002	
4/13/2016	<0.0002	<0.0002	<0.0002	<0.0002				<0.0002
5/31/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
6/1/2016	<0.0002							<0.0002
8/15/2016	<0.0002							<0.0002
8/16/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/17/2016						<0.0002		
10/11/2016	<0.0002						<0.0002	
10/12/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
1/24/2017	<0.0002						<0.0002	<0.0002
1/25/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
5/9/2017	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
5/10/2017		<0.0002					<0.0002	<0.0002
6/27/2017	<0.0002						<0.0002	<0.0002
6/28/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/27/2018	<0.0002	<0.0002	<0.0002			<0.0002		
2/28/2018				<0.0002	<0.0002		<0.0002	<0.0002
6/4/2018	<0.0002							
6/5/2018		<0.0002	<0.0002				<0.0002	<0.0002
6/6/2018				<0.0002	<0.0002	<0.0002		
11/5/2018			<0.0002	<0.0002	<0.0002			
11/6/2018	<0.0002						<0.0002	<0.0002
11/7/2018		<0.0002				<0.0002		
3/26/2019				<0.0002	<0.0002		<0.0002	<0.0002
3/27/2019	<0.0002	<0.0002	<0.0002			<0.0002		
9/10/2019	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
9/11/2019					<0.0002			
4/20/2020					<0.0002		<0.0002	<0.0002
4/21/2020	<0.0002			<0.0002		<0.0002		
4/22/2020		<0.0002	<0.0002					
8/11/2020						<0.0002		<0.0002
8/12/2020							<0.0002	
8/17/2020	<0.0002							
8/18/2020		<0.0002	<0.0002	<0.0002	<0.0002			
3/9/2021						<0.0002		<0.0002
3/10/2021			0.000347	<0.0002			0.00012 (J)	
3/15/2021		<0.0002			<0.0002			
3/16/2021	<0.0002							
8/17/2021	<0.0002							<0.0002
8/24/2021		<0.0002						
8/25/2021			<0.0002	<0.0002	<0.0002	<0.0002	0.00014 (J)	
3/29/2022				<0.0002			0.00046	
3/30/2022			<0.0002					
4/4/2022	<0.0002	<0.0002				<0.0002		
4/6/2022					8E-05 (J)			<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.0002				
2/17/2016	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
4/12/2016		<0.0002			<0.0002	<0.0002	<0.0002	
4/13/2016	<0.0002		<0.0002	<0.0002				
6/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/15/2016	<0.0002	<0.0002	<0.0002					
8/16/2016				<0.0002	<0.0002	<0.0002		
8/17/2016							<0.0002	<0.0002
9/20/2016								<0.0002
10/11/2016			<0.0002		<0.0002	<0.0002	<0.0002	
10/12/2016	<0.0002	<0.0002		<0.0002				<0.0002
11/15/2016								<0.0002
1/4/2017								<0.0002
1/23/2017								<0.0002
1/24/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
1/25/2017				<0.0002				
5/9/2017			<0.0002	<0.0002	<0.0002		<0.0002	0.000706 (J)
5/10/2017	<0.0002	<0.0002				<0.0002		
6/27/2017	<0.0002	<0.0002			<0.0002			0.000429 (J)
6/28/2017			<0.0002	<0.0002		<0.0002	<0.0002	
2/27/2018			<0.0002		<0.0002	<0.0002		<0.0002
2/28/2018	<0.0002	<0.0002		<0.0002			<0.0002	
6/4/2018			<0.0002					
6/5/2018	<0.0002	<0.0002			<0.0002	<0.0002		<0.0002
6/6/2018				<0.0002			<0.0002	
11/5/2018				<0.0002				
11/6/2018	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002
11/7/2018					<0.0002	<0.0002		
3/26/2019	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002
3/27/2019			<0.0002				<0.0002	
9/9/2019	<0.0002	<0.0002	<0.0002					
9/10/2019				<0.0002	<0.0002	<0.0002	<0.0002	
9/11/2019								<0.0002
4/21/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
4/22/2020						<0.0002	<0.0002	
8/11/2020	<0.0002						<0.0002	
8/12/2020		<0.0002			<0.0002	<0.0002		
8/17/2020			<0.0002					
8/18/2020				<0.0002				<0.0002
3/9/2021	<0.0002	<0.0002						
3/10/2021				7.02E-05 (J)	<0.0002	<0.0002	<0.0002	
3/15/2021								<0.0002
3/16/2021			0.00013 (J)					
8/17/2021	<0.0002	<0.0002	<0.0002					
8/18/2021								<0.0002
8/24/2021					<0.0002	<0.0002	9E-05 (J)	
8/25/2021				<0.0002				
3/28/2022			0.00012 (J)		<0.0002			
3/29/2022							7E-05 (J)	
3/30/2022				7E-05 (J)				
4/4/2022	<0.0002					<0.0002		<0.0002
4/6/2022		<0.0002						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.0002				
4/12/2016				<0.0002				
6/1/2016				<0.0002				
8/15/2016				<0.0002				
8/16/2016			<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
8/17/2016	0.000211 (J)	0.000742 (J)						
9/19/2016						<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	0.000857 (J)	<0.0002		<0.0002			
10/11/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/12/2016	<0.0002	0.000912 (J)						
11/14/2016						<0.0002	<0.0002	<0.0002
11/15/2016	0.000216 (J)	0.000821 (J)	<0.0002		<0.0002			
1/3/2017						<0.0002	<0.0002	<0.0002
1/4/2017	<0.0002	0.000718 (J)	<0.0002		<0.0002			
1/23/2017	0.000231 (J)				<0.0002			
1/24/2017		0.000716 (J)		<0.0002		<0.0002	<0.0002	
1/25/2017								<0.0002
1/26/2017			0.000228 (J)					
5/9/2017	<0.0002	0.000746 (J)	0.000277 (J)	<0.0002	<0.0002			
5/10/2017						<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002	0.00065 (J)	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
6/28/2017				<0.0002				
2/27/2018	<0.0002	0.000752 (J)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/4/2018				<0.0002				
6/5/2018	<0.0002	0.000731 (J)	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
11/5/2018							<0.0002	
11/6/2018	<0.0002	0.000646 (J)	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/26/2019	<0.0002	0.000582 (J)	<0.0002		<0.0002			
3/27/2019				<0.0002		<0.0002	<0.0002	<0.0002
9/9/2019				<0.0002				
9/11/2019	<0.0002	0.000573 (J)	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
4/20/2020				<0.0002				
4/21/2020	<0.0002	0.00052 (J)	<0.0002		<0.0002			
4/22/2020						<0.0002	<0.0002	<0.0002
8/11/2020						<0.0002		
8/12/2020							<0.0002	<0.0002
8/17/2020				<0.0002				
8/18/2020	<0.0002	0.000476 (J)	<0.0002		<0.0002			
3/15/2021	0.0001 (J)	0.000536	0.000204		8.19E-05 (J)	<0.0002	<0.0002	<0.0002
3/16/2021				<0.0002				
8/17/2021				<0.0002				
8/18/2021	0.00018 (J)	0.00042	0.00019 (J)		8E-05 (J)			
8/23/2021						<0.0002	<0.0002	<0.0002
3/28/2022	0.00018 (J)	0.00043	0.00016 (J)		<0.0002	<0.0002	<0.0002	<0.0002
4/5/2022				<0.0002				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.0002			
1/15/2019				<0.0002		<0.0002	<0.0002	<0.0002
1/16/2019		<0.0002						
1/17/2019	<0.0002							
1/30/2019			<0.0002					
9/10/2019	<0.0002						<0.0002	
9/11/2019		<0.0002	<0.0002		<0.0002	<0.0002		<0.0002
4/20/2020							<0.0002	
4/21/2020		<0.0002						
4/22/2020	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
4/29/2020								<0.0002
8/11/2020			<0.0002			<0.0002		
8/12/2020	<0.0002						<0.0002	
8/18/2020		<0.0002						<0.0002
8/19/2020				<0.0002	<0.0002			
3/9/2021			<0.0002			<0.0002		
3/10/2021					<0.0002		0.000171 (J)	
3/15/2021	<0.0002							<0.0002
3/16/2021		<0.0002		<0.0002				
8/23/2021	<0.0002							
8/24/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
8/25/2021							8E-05 (J)	<0.0002
3/28/2022	<0.0002							
3/29/2022				<0.0002				
3/30/2022			<0.0002		<0.0002		0.00018 (J)	
4/6/2022		<0.0002				<0.0002		<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.0002							
1/16/2019		<0.0002	<0.0002					
9/11/2019	<0.0002	<0.0002	<0.0002					
4/20/2020			<0.0002	<0.0002				
4/21/2020	<0.0002	<0.0002					<0.0002	<0.0002
5/28/2020						<0.0002		
7/6/2020					<0.0002			
8/11/2020					<0.0002	<0.0002		
8/12/2020			<0.0002					
8/17/2020				<0.0002			<0.0002	
8/19/2020	<0.0002	<0.0002						0.000334 (J)
3/8/2021					<0.0002	<0.0002		
3/9/2021	0.000682	<0.0002						
3/10/2021			0.000411	<0.0002			<0.0002	0.00017 (J)
8/17/2021					0.0001 (J)	<0.0002		
8/18/2021	9E-05 (J)	<0.0002		<0.0002			7E-05 (J)	0.00021
8/23/2021			0.00032					
3/23/2022					<0.0002	<0.0002		
3/29/2022				<0.0002				
3/30/2022							<0.0002	0.00029
4/4/2022			0.0003					
4/6/2022	0.00024	<0.0002						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.0002							
4/12/2016	<0.0002							
5/31/2016	<0.0002							
8/17/2016	<0.0002							
10/11/2016	<0.0002							
1/24/2017	<0.0002							
5/9/2017	<0.0002							
6/28/2017	<0.0002							
2/27/2018	<0.0002							
6/5/2018	<0.0002							
11/6/2018	<0.0002							
3/27/2019	<0.0002							
9/11/2019	<0.0002							
4/20/2020				<0.0002	<0.0002		<0.0002	
4/21/2020	<0.0002							
5/28/2020		<0.0002				<0.0002		<0.0002
7/6/2020			0.000366 (J)					
8/11/2020		<0.0002	0.00042 (J)	<0.0002		<0.0002		<0.0002
8/12/2020	<0.0002				<0.0002		<0.0002	
3/8/2021		0.000287	0.000227					
3/9/2021						<0.0002		7.08E-05 (J)
3/10/2021				<0.0002	<0.0002		<0.0002	
3/16/2021	<0.0002							
8/16/2021			0.00022					
8/17/2021		0.00024				<0.0002		<0.0002
8/23/2021	<0.0002			<0.0002	<0.0002		<0.0002	
3/23/2022		0.00037	0.00014 (J)			<0.0002		0.00012 (J)
4/4/2022	<0.0002							
4/5/2022					<0.0002		<0.0002	
4/6/2022				<0.0002				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.0002
2/17/2016	<0.0002						<0.0002	
4/12/2016	<0.0002							
4/13/2016							<0.0002	<0.0002
5/31/2016	<0.0002						<0.0002	
6/1/2016								<0.0002
8/17/2016	<0.0002						<0.0002	<0.0002
10/11/2016	<0.0002							
10/12/2016							<0.0002	<0.0002
1/24/2017	<0.0002							
1/25/2017							<0.0002	<0.0002
5/10/2017	<0.0002						<0.0002	<0.0002
6/28/2017	<0.0002						<0.0002	<0.0002
2/27/2018	<0.0002						<0.0002	<0.0002
6/5/2018	<0.0002						<0.0002	<0.0002
11/7/2018	<0.0002						<0.0002	<0.0002
3/26/2019	<0.0002						<0.0002	<0.0002
9/10/2019	<0.0002						<0.0002	<0.0002
4/21/2020	<0.0002						<0.0002	<0.0002
8/19/2020	<0.0002						<0.0002	<0.0002
3/9/2021	0.00278						<0.0002	0.000241
8/17/2021		<0.0002	<0.0002	<0.0002	0.00012 (J)	<0.0002		
8/24/2021	0.00018 (J)						<0.0002	<0.0002
3/23/2022		<0.0002	<0.0002	7E-05 (J)	0.0001 (J)	0.00013 (J)		
3/29/2022	0.0005						<0.0002	<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.0002	
4/13/2016	<0.0002	
6/1/2016	<0.0002	
8/17/2016	<0.0002	
10/12/2016	<0.0002	
1/25/2017	<0.0002	
5/10/2017	<0.0002	
6/28/2017	<0.0002	
2/27/2018	<0.0002	
6/5/2018	<0.0002	
11/7/2018	<0.0002	
3/26/2019	<0.0002	
9/10/2019	<0.0002	<0.0002
4/20/2020		<0.0002
4/21/2020	<0.0002	
8/17/2020		<0.0002
8/18/2020	<0.0002	
3/9/2021	<0.0002	
3/10/2021		<0.0002
8/17/2021		<0.0002
8/24/2021	<0.0002	
3/29/2022	<0.0002	
4/5/2022		8E-05 (J)

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		76.3		34.6	29.8	44.4		
2/17/2016	204		18.6				47.7	57
4/12/2016					23.3	43.2	44.4	
4/13/2016	152	30.5	17.8	32.2				62.5
5/31/2016		65.9	17.7	28.8	25.9	43	45.3	
6/1/2016	183							54.4
8/15/2016	197							56.2
8/16/2016		65.6	18.4	24	25.5		49.4	
8/17/2016						35.9		
10/11/2016	186						52.7	
10/12/2016		63.4	17.3	27.8	29.5	31.1		56.6
1/24/2017	193						49.4	59.1
1/25/2017		64.2	16.6	33.7	33.6	42.7		
5/9/2017	184		18	35.5	30.4	48.1		
5/10/2017		62.6					47.4	62.5
6/27/2017	184						44.9	63.6
6/28/2017		60.8	22.6	28	26	55		
8/29/2017		61.4	23.9	26.4	22.3	83.6		
8/30/2017	182						44.4	65.7
6/4/2018	157							
6/5/2018		65.5	25.7				45.1	66.8
6/6/2018				30.1	23.7	167		
9/10/2018	219		27.2					
9/11/2018		66.1		27.4	26.8		48.5	
9/12/2018						109		76.3
11/5/2018			24.1	28.8	29.4			
11/6/2018	186						49.2	77.4
11/7/2018		68.5				105		
3/26/2019				33.7	34.1		54	90
3/27/2019	73.8	71.8	31			162		
9/10/2019	147	69.3	27.7	30.5		125	57.2	86.3
9/11/2019					53.9			
4/20/2020					40.3		61	90.8
4/21/2020	90.5			51		113		
4/22/2020		62.9	36.7					
8/11/2020						118		101
8/12/2020							72.2	
8/17/2020	81.5							
8/18/2020		74.4	37.6	42.9	95.3			
3/9/2021						115		101
3/10/2021			39.9	55.1			67.4	
3/15/2021		73.8			68.9			
3/16/2021	109							
8/17/2021	103							103
8/24/2021		83.4						
8/25/2021			57.6	45.2	74.2	134	74.8	
3/29/2022				52			75.7	
3/30/2022			39.6					
4/4/2022	106	93.7				117		
4/6/2022					55.5			101

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/30/2022				51				
4/4/2022	104					37		6.7
4/6/2022		96.1						

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				106				
4/12/2016				95.2				
6/1/2016				86.1				
8/15/2016				89.7				
8/16/2016			2.02		1.24	39.5	9.33	5.54
8/17/2016	1.1	7.74						
9/19/2016						34.5	9.26	3.01
9/20/2016	0.771	2.43	1.22		1.11			
10/11/2016			1.48	90.6	1.22	32.4	9.31	2.74
10/12/2016	0.711	2.46						
11/14/2016						26.5	9.17	2.47
11/15/2016	0.641	2.28	1.36		1.34			
1/3/2017						22.6	9.66	2.94
1/4/2017	0.797	2.7	1.11		2.39			
1/23/2017	0.655				1.83			
1/24/2017		4.19		94.2		19.5	9.67	
1/25/2017								2.91
1/26/2017			1.03					
5/9/2017	0.538	3.28	0.289 (J)	90.3	0.823			
5/10/2017						15.7	9.81	2.27
6/27/2017	0.413 (J)	3.76	0.292 (J)		0.956	13.8	9.88	2.2
6/28/2017				80.7				
8/29/2017	0.504							
8/30/2017		2.31	0.336 (J)	84	1.04	11.1	10.3	2.26
6/4/2018				98.8				
6/5/2018	0.339 (J)	2.76	0.2 (J)		1.18	9.12	11.4	2.97
9/11/2018	0.776	2.04	0.171 (J)		1.5	7.5	10.5	2.6
9/12/2018				109				
11/5/2018							10.5	
11/6/2018	0.746	2	0.193 (J)	110	1.64	7.39		2.42
3/26/2019	0.526	2.13	0.223 (J)		1.33			
3/27/2019				111		7.65	11.6	2.75
9/9/2019				98.5				
9/11/2019	0.638	1.98	0.158 (J)		0.925	6.96	9.95	2.17
4/20/2020				91.2				
4/21/2020	1.15	2.41	0.287 (J)		0.864			
4/22/2020						5.92	9.87	3.15
8/11/2020						7.46		
8/12/2020							9.48	1.78
8/17/2020				78.9				
8/18/2020	0.884	2.23	0.231 (J)		0.926			
3/15/2021	0.745	1.73	0.239 (J)		0.646	5.9	2.02	9.77
3/16/2021				66.6				
8/17/2021				55.4				
8/18/2021	1.11	1.94	0.283 (J)		0.716			
8/23/2021						7.11	2.16	9.48
3/28/2022	1.37	1.94	0.172 (J)		0.542	5.95	9.61	2.21
4/5/2022				67.4				

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					123			
1/15/2019				231		97.6	60.7	115
1/16/2019		19.6						
1/17/2019	25.3							
1/30/2019			2.85					
9/10/2019	12.8						97.5	
9/11/2019		22.2	1.16		84	91.6		72.1
4/20/2020							88.2	
4/21/2020		47.3						
4/22/2020	12		0.941	175	83.9	102		
4/29/2020								70.8
8/11/2020			1.06			111		
8/12/2020	9.68						115	
8/18/2020		22.9						66.7
8/19/2020				143	96			
3/9/2021			0.99			108		
3/10/2021					96.2		109	
3/15/2021	12.6							70.4
3/16/2021		24.9		148				
8/23/2021	11.1							
8/24/2021		21	1.07	143	109	115		
8/25/2021							108	78.3
3/28/2022	10.8							
3/29/2022				118				
3/30/2022			1.01		93.5		96	
4/6/2022		22.5				119		110

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	70							
1/16/2019		54.9	174					
9/11/2019	57.2	60.7	179					
4/20/2020			167	64.9				
4/21/2020	56.5	81.4					28.9	36.8
5/28/2020						38.6		
7/6/2020				51.1				
8/11/2020				57.8		15.9		
8/12/2020			173					
8/17/2020				57.2			27.6	
8/19/2020	59.3	99.7						27.4
3/8/2021					47.1	12.9		
3/9/2021	69.5	102						
3/10/2021			159	39.3			22.1	27.3
8/17/2021					55	16.4		
8/18/2021	74.4	106		122			17.9	19.5
8/23/2021			138					
3/23/2022					53.1	21.1		
3/29/2022				110				
3/30/2022							13.4	27.8
4/4/2022			137					
4/6/2022	69.6	110						

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	59.8							
4/12/2016	56.1							
5/31/2016	56.6							
8/17/2016	61							
10/11/2016	61.3							
1/24/2017	61							
5/9/2017	61.7							
6/28/2017	66.1							
8/30/2017	78.9							
6/5/2018	64.8							
9/11/2018	72.2							
11/6/2018	78.9							
3/27/2019	69.1							
9/11/2019	90.8							
4/20/2020				93.1	98.8		69.5	
4/21/2020	93							
5/28/2020		40.1				2.61		72.4
7/6/2020			75.6					
8/11/2020		39.5	73.1	92.8		2.43		76.7
8/12/2020	92.2				101		79.1	
3/8/2021		32.7	63.3					
3/9/2021						2.62		60.5
3/10/2021				80.8	92.8		29	
3/16/2021	99.7							
8/16/2021			61.7					
8/17/2021		38.1				1.96		69.8
8/23/2021	87.6			79.2	78.2		41.4	
3/23/2022		38.7	66			2.26		63.2
4/4/2022	98.8							
4/5/2022					95.6		17.8	
4/6/2022				78.5				

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								75.9
2/17/2016	128						158	
4/12/2016	115							
4/13/2016							151	74.1
5/31/2016	118						158	
6/1/2016								76.4
8/17/2016	120						152	74.2
10/11/2016	119							
10/12/2016							150	75.7
1/24/2017	110							
1/25/2017							137	76.1
5/10/2017	104						111	78.6
6/28/2017	98						108	76.4
8/29/2017	108						113	74.1
6/5/2018	121						186	58
9/11/2018	119						209	64.9
11/7/2018	124						175	68.1
3/26/2019	148						193	72
9/10/2019	164						188	91
4/21/2020	142						155	84.8
8/19/2020	162						147	98.6
3/9/2021	119						160	100
8/17/2021		3.97	35.7	20.3	8.92	54.6		
8/24/2021	129						123	86.4
3/23/2022		2.95	22.4	8.23	6.43	63.2		
3/29/2022	128						126	92.8

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	33.9	
4/13/2016	32.5	
6/1/2016	33.9	
8/17/2016	50.3	
10/12/2016	53.3	
1/25/2017	59.9	
5/10/2017	66.5	
6/28/2017	69.8	
8/29/2017	72	
6/5/2018	95.1	
9/11/2018	122	
9/12/2018		172
11/7/2018	107	
3/26/2019	132	
9/10/2019	116	160
4/20/2020		147
4/21/2020	111	
8/17/2020		153
8/18/2020	109	
3/9/2021	82.1	
3/10/2021		157
8/17/2021		149
8/24/2021	93.1	
3/29/2022	72.1	
4/5/2022		209

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		18.4		10.8	6.52	16.4		
2/17/2016	16		16.6				11.8	12.5
4/12/2016					4.47	15.9	12.6	
4/13/2016	21.5	19	17	8.2				13.6
5/31/2016		19.2	19	7.74	10.8	13.6	12.9	
6/1/2016	52.5							14.2
8/15/2016	33.3							13.6
8/16/2016		17.7	17	12.5	16.6		10.2	
8/17/2016						12.8		
10/11/2016	22.2						10.2	
10/12/2016		16.8	16.2	15.7	18.5	16.3		13.8
1/24/2017	18.4						11.2	14.2
1/25/2017		18.6	18	24.4	22	16.4		
5/9/2017	30		23	15	10	19		
5/10/2017		22					14	18
6/27/2017	29						14	17
6/28/2017		20	24	12	9.4	17		
8/29/2017		20	15	10	9.3	17		
8/30/2017	23						14	16
6/4/2018	22							
6/5/2018		18	16				13	15
6/6/2018				11	6.1	14		
9/10/2018	22		13					
9/11/2018		19		12	14		14	
9/12/2018						14		17
11/5/2018			13	17	18			
11/6/2018	17						14	15
11/7/2018		19				15		
3/26/2019				14.5	4.7		13	9.27
3/27/2019	18	17.1	14.2			14.9		
9/10/2019	18.1	16.5	8.88	10.9		13.5	12.8	12.7
9/11/2019					12.3			
4/20/2020					4.7		12	12.1
4/21/2020	19.5			9.49		14.8		
4/22/2020		17.6	20.5					
8/11/2020						12.7		12.1
8/12/2020							11.4	
8/17/2020	23.2							
8/18/2020		21.3	16.2	6.46	8.24			
3/9/2021						10.4		12
3/10/2021			17.1	9.3			11.9	
3/15/2021		23.2			7.68			
3/16/2021	16.6							
8/17/2021	34.4							10.4
8/24/2021		22.4						
8/25/2021			14.4	7.43	6.37	11.5	10.3	
3/29/2022				11.8			10.3	
3/30/2022			12.7					
4/4/2022	41.75 (D)	16.8 (D)				9.875 (D)		
4/6/2022					3.71			11.8 (D)

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/30/2022				12.1				
4/4/2022	8.06 (D)					3.09		2.93
4/6/2022		24.35 (D)						

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				25.2			
4/12/2016				24.6			
6/1/2016				24.5			
8/15/2016				24.2			
8/16/2016			2.21	2.54	5.32	4.24	4.88
8/17/2016	1.78	1.77					
9/19/2016					5.29	4.13	4.45
9/20/2016	1.61	1.56	2.12	2.51			
10/11/2016			2.24	24.4	2.34	5.26	4.07
10/12/2016	1.51	1.54					
11/14/2016					5.28	4.08	4.42
11/15/2016	1.5	1.53	6.65	2.1			
1/3/2017					5.18	4.06	5.18
1/4/2017	1.53	1.58	2.15	2.44			
1/23/2017	1.62			2.37			
1/24/2017		1.71		24.6	5.41	4.4	
1/25/2017							5.66
1/26/2017			2.31				
5/9/2017	2.2	2.1	2.3	27	2.8		
5/10/2017					5.8	4.4	8
6/27/2017	1.9 (J)	2	2.1		2.1	5.4	4
6/28/2017				26			
8/29/2017	2						
8/30/2017		1.5 (J)	2.8	26	3	6	4.8
6/4/2018				27			
6/5/2018	1.9 (J)	1.2 (J)	1.8 (J)		2.3	5.2	3.8
9/11/2018	<2	<2	<2		1.5 (J)	5.5	4.1
9/12/2018				26			
11/5/2018						3.9	
11/6/2018	1.9 (J)	<2	<2	26	1.4 (J)	5.1	
3/26/2019	2.18	1.2	1.07		2.42		
3/27/2019				24.8		5.26	3.9
9/9/2019				23.8			
9/11/2019	1.7	1.26	1.19		3.72	5.31	4.21
4/20/2020				24.5			
4/21/2020	1.9	1.32	1.09		3.89		
4/22/2020						5.37	4
8/11/2020						5.45	
8/12/2020							4.17
8/17/2020				24.6			
8/18/2020	1.63	1.38	1.05		3.8		
3/15/2021	2.46	1.27	1.25		4.38	5.47	5.57
3/16/2021				24.4			
8/17/2021				21.3			
8/18/2021	2.45	1.42	1.42		4.46		
8/23/2021						6.37	5.61
3/28/2022	1.96	1.35	1.24		4.12	6	3.98
4/5/2022				21.1 (D)			

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					37.9			
1/15/2019				13.4		14.3	13	16.6
1/16/2019		3.1						
1/17/2019	7.87							
1/30/2019			3.04					
9/10/2019	5.54						10.5	
9/11/2019		1.15	3.95		3.82	14.1		16.5
4/20/2020							10.8	
4/21/2020		3.62						
4/22/2020	7.6		4.4	10.3	2.25	12.9		
4/29/2020								16.1
8/11/2020			3.28			7.85		
8/12/2020	2.07						8.34	
8/18/2020		1.12						15.9
8/19/2020				13.9	3.4			
3/9/2021			2.9			8.06		
3/10/2021					2.3		6.74	
3/15/2021	5.81							15.9
3/16/2021		1.91		13				
8/23/2021	4.36							
8/24/2021		2.79	2.91	9.19	4.46	7.38		
8/25/2021							6.66	14.4
3/28/2022	3.52							
3/29/2022				5.57				
3/30/2022			3.04		3.8		5.72	
4/6/2022		1.48				8.39 (D)		13.6

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	19.9							
1/16/2019		26.1	12.3					
9/11/2019	20.7	31.4	11.8					
4/20/2020			12	10.9				
4/21/2020	19.9	40.4					12.3	11.3
5/28/2020						4.92		
7/6/2020				4.5				
8/11/2020				4.27		3.18		
8/12/2020			10.8					
8/17/2020				8.99			11.9	
8/19/2020	18.2	46.9						7.53
3/8/2021					8.51	8.78		
3/9/2021	18.4	41.6						
3/10/2021			11.9	6.5			8.31	7.57
8/17/2021					7.84	8.79		
8/18/2021	17	35.8		9.94			4.07	5.3
8/23/2021			13.1					
3/23/2022					7.84	8.8		
3/29/2022				9.58				
3/30/2022							3.44	8.12
4/4/2022			13.7					
4/6/2022	15.65 (D)	37.7 (D)						

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	16.4							
4/12/2016	16.6							
5/31/2016	16.8							
8/17/2016	16.4							
10/11/2016	15.2							
1/24/2017	15.1							
5/9/2017	17							
6/28/2017	17							
8/30/2017	17							
6/5/2018	15							
9/11/2018	14							
11/6/2018	13							
3/27/2019	16.1							
9/11/2019	11.6							
4/20/2020				23.9	9.74		7.88	
4/21/2020	12.3							
5/28/2020		13.4				6.88		12.1
7/6/2020			103					
8/11/2020		11.2	87.4	21.2		6.21		12.1
8/12/2020	13				10.8		6.3	
3/8/2021		13.7	90					
3/9/2021						5.06		10.4
3/10/2021				19.4	11.5		55.3	
3/16/2021	10.9							
8/16/2021			60.9					
8/17/2021		14.5				4.25		10.8
8/23/2021	11.6			21.1	6.89		8.41	
3/23/2022		17.7	123			4.56		9.19
4/4/2022	9.63							
4/5/2022					8.175 (D)		19.55 (D)	
4/6/2022				8.09 (D)				

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								67.9
2/17/2016	31.8						62.7	
4/12/2016	28.9							
4/13/2016							57.8	64.1
5/31/2016	28.7						55.6	
6/1/2016								66.3
8/17/2016	32.2						53.3	56.7
10/11/2016	34.2							
10/12/2016							51.2	56.1
1/24/2017	38.1							
1/25/2017							44.8	53.6
5/10/2017	41						44	48
6/28/2017	36						45	49
8/29/2017	35						43	52
6/5/2018	32						49	38
9/11/2018	36						52	37
11/7/2018	30						58	41
3/26/2019	31.9						71	39.7
9/10/2019	27.3						67	56.1
4/21/2020	37.4						66.2	69.5
8/19/2020	39.6						123	70.5
3/9/2021	47.5						80.7	106
8/17/2021		4.94	3.13	3.28	3.37	10.9		
8/24/2021	56.6						91.7	90.8
3/23/2022		4.08	2.07	3.19	2.42	16.1		
3/29/2022	45.3						94.7	95.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	15.6	
4/13/2016	14.3	
6/1/2016	12.6	
8/17/2016	14.4	
10/12/2016	16.4	
1/25/2017	20	
5/10/2017	24	
6/28/2017	25	
8/29/2017	25	
6/5/2018	25	
9/11/2018	26	
9/12/2018		12
11/7/2018	25	
3/26/2019	25.3	
9/10/2019	28	10.9
4/20/2020		9.87
4/21/2020	24.2	
8/17/2020		9.78
8/18/2020	31.4	
3/9/2021	53.9	
3/10/2021		8.48
8/17/2021		8.13
8/24/2021	90.7	
3/29/2022	225	
4/5/2022		7.86 (D)

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.00102		<0.00102	<0.00102	<0.00102		
2/17/2016	<0.00102		<0.00102				<0.00102	<0.00102
4/12/2016					<0.00102	<0.00102	<0.00102	
4/13/2016	<0.00102	<0.00102	<0.00102	<0.00102				<0.00102
5/31/2016		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
6/1/2016	<0.00102							<0.00102
8/15/2016	<0.00102							<0.00102
8/16/2016		<0.00102	<0.00102	<0.00102	0.00381 (J)		<0.00102	
8/17/2016						<0.00102		
10/11/2016	<0.00102						<0.00102	
10/12/2016		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
1/24/2017	<0.00102						<0.00102	<0.00102
1/25/2017		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
5/9/2017	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102		
5/10/2017		<0.00102					<0.00102	<0.00102
6/27/2017	<0.00102						<0.00102	<0.00102
6/28/2017		<0.00102	<0.00102	<0.00102	0.00219 (J)	<0.00102		
2/27/2018	<0.00102	<0.00102	<0.00102			<0.00102		
2/28/2018				<0.00102	<0.00102		<0.00102	<0.00102
6/4/2018	<0.00102							
6/5/2018		<0.00102	<0.00102				<0.00102	<0.00102
6/6/2018				<0.00102	<0.00102	<0.00102		
11/5/2018			<0.00102	<0.00102	<0.00102			
11/6/2018	<0.00102						<0.00102	<0.00102
11/7/2018		<0.00102				<0.00102		
3/26/2019				<0.00102	<0.00102		<0.00102	<0.00102
3/27/2019	<0.00102	<0.00102	<0.00102			<0.00102		
9/10/2019	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102
9/11/2019					<0.00102			
4/20/2020					<0.00102		<0.00102	<0.00102
4/21/2020	<0.00102			<0.00102		<0.00102		
4/22/2020		<0.00102	<0.00102					
8/11/2020						<0.00102		<0.00102
8/12/2020							<0.00102	
8/17/2020	<0.00102							
8/18/2020		<0.00102	<0.00102	<0.00102	<0.00102			
3/9/2021						0.000357 (J)		0.000444 (J)
3/10/2021			<0.00102	0.000224 (J)			0.000301 (J)	
3/15/2021		0.000357 (J)			0.000311 (J)			
3/16/2021	0.000341 (J)							
8/17/2021	0.00034 (J)							0.0004 (J)
8/24/2021		0.00036 (J)						
8/25/2021			0.00027 (J)	0.00035 (J)	0.00026 (J)	0.00023 (J)	0.00027 (J)	
3/29/2022				0.00043 (J)			<0.00102	
3/30/2022			0.00023 (J)					
4/4/2022	0.00045 (J)	<0.00102				0.00025 (J)		
4/6/2022					0.0003 (J)			0.00034 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.00102				
2/17/2016	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	
4/12/2016		<0.00102			<0.00102	<0.00102	<0.00102	
4/13/2016	<0.00102		<0.00102	<0.00102				
6/1/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
8/15/2016	<0.00102	<0.00102	<0.00102					
8/16/2016				<0.00102	<0.00102	<0.00102		
8/17/2016							<0.00102	<0.00102
9/20/2016								<0.00102
10/11/2016			<0.00102		<0.00102	<0.00102	<0.00102	
10/12/2016	<0.00102	<0.00102		<0.00102				<0.00102
11/15/2016								<0.00102
1/4/2017								<0.00102
1/23/2017								<0.00102
1/24/2017	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	
1/25/2017				<0.00102				
5/9/2017			<0.00102	<0.00102	<0.00102		<0.00102	<0.00102
5/10/2017	<0.00102	<0.00102				<0.00102		
6/27/2017	<0.00102	<0.00102			<0.00102			<0.00102
6/28/2017			<0.00102	<0.00102		<0.00102	<0.00102	
2/27/2018			<0.00102		<0.00102	<0.00102		<0.00102
2/28/2018	<0.00102	<0.00102		<0.00102			<0.00102	
6/4/2018			<0.00102					
6/5/2018	<0.00102	<0.00102			<0.00102	<0.00102		<0.00102
6/6/2018				<0.00102			<0.00102	
11/5/2018				<0.00102				
11/6/2018	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102
11/7/2018					<0.00102	<0.00102		
3/26/2019	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102		<0.00102
3/27/2019			<0.00102				<0.00102	
9/9/2019	<0.00102	<0.00102	<0.00102					
9/10/2019				<0.00102	<0.00102	<0.00102	<0.00102	
9/11/2019								<0.00102
4/21/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			<0.00102
4/22/2020						<0.00102	<0.00102	
8/11/2020	<0.00102						<0.00102	
8/12/2020		<0.00102			<0.00102	<0.00102		
8/17/2020			<0.00102					
8/18/2020				<0.00102				<0.00102
3/9/2021	0.000216 (J)	0.000346 (J)						
3/10/2021				0.000333 (J)	0.000432 (J)	0.000433 (J)	0.0003 (J)	
3/15/2021								0.000474 (J)
3/16/2021			0.0004 (J)					
8/17/2021	0.00022 (J)	0.00023 (J)	0.00267					
8/18/2021								0.00022 (J)
8/24/2021					0.00043 (J)	0.00034 (J)	0.00028 (J)	
8/25/2021				0.00027 (J)				
3/28/2022			0.0003 (J)		0.00034 (J)			
3/29/2022							0.00041 (J)	
3/30/2022				0.00022 (J)				
4/4/2022	0.00022 (J)					0.00037 (J)		0.0003 (J)
4/6/2022		0.00031 (J)						

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.00102				
4/12/2016				<0.00102				
6/1/2016				<0.00102				
8/15/2016				<0.00102				
8/16/2016			<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
8/17/2016	<0.00102	<0.00102						
9/19/2016						<0.00102	<0.00102	<0.00102
9/20/2016	<0.00102	<0.00102	<0.00102		<0.00102			
10/11/2016			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/12/2016	<0.00102	<0.00102						
11/14/2016						<0.00102	<0.00102	<0.00102
11/15/2016	<0.00102	<0.00102	<0.00102		<0.00102			
1/3/2017						<0.00102	<0.00102	<0.00102
1/4/2017	<0.00102	<0.00102	<0.00102		<0.00102			
1/23/2017	<0.00102				<0.00102			
1/24/2017		<0.00102		<0.00102		<0.00102	<0.00102	
1/25/2017								<0.00102
1/26/2017			<0.00102					
5/9/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			
5/10/2017						<0.00102	<0.00102	<0.00102
6/27/2017	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
6/28/2017				<0.00102				
2/27/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/4/2018				<0.00102				
6/5/2018	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
11/5/2018							<0.00102	
11/6/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
3/26/2019	<0.00102	<0.00102	<0.00102		<0.00102			
3/27/2019				<0.00102		<0.00102	<0.00102	<0.00102
9/9/2019				<0.00102				
9/11/2019	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
4/20/2020				<0.00102				
4/21/2020	<0.00102	<0.00102	<0.00102		<0.00102			
4/22/2020						<0.00102	<0.00102	<0.00102
8/11/2020						<0.00102		
8/12/2020							<0.00102	<0.00102
8/17/2020				<0.00102				
8/18/2020	<0.00102	<0.00102	<0.00102		<0.00102			
3/15/2021	0.000541 (J)	0.000995 (J)	0.000393 (J)		0.000502 (J)	0.000468 (J)	0.000431 (J)	0.000679 (J)
3/16/2021				0.000347 (J)				
8/17/2021				0.00032 (J)				
8/18/2021	0.00032 (J)	0.00071 (J)	0.00026 (J)		0.00033 (J)			
8/23/2021						0.00042 (J)	0.00038 (J)	0.0005 (J)
3/28/2022	0.00031 (J)	0.00072 (J)	0.00039 (J)		0.0004 (J)	0.00039 (J)	0.00042 (J)	0.00044 (J)
4/5/2022				0.00039 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.0117			
1/15/2019				<0.00102		<0.00102	<0.00102	<0.00102
1/16/2019		<0.00102						
1/17/2019	<0.00102							
1/30/2019			<0.00102					
9/10/2019	<0.00102						<0.00102	
9/11/2019		<0.00102	0.0155		<0.00102	<0.00102		<0.00102
4/20/2020							<0.00102	
4/21/2020		<0.00102						
4/22/2020	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102		
4/29/2020								<0.00102
8/11/2020			<0.00102			<0.00102		
8/12/2020	<0.00102						<0.00102	
8/18/2020		<0.00102						<0.00102
8/19/2020				<0.00102	<0.00102			
3/9/2021			0.00143			0.000342 (J)		
3/10/2021					0.000421 (J)		0.000226 (J)	
3/15/2021	0.000473 (J)							0.000553 (J)
3/16/2021		0.000912 (J)		0.000381 (J)				
8/23/2021	0.0003 (J)							
8/24/2021		0.00075 (J)	0.00096 (J)	0.00026 (J)	0.00038 (J)	0.00033 (J)		
8/25/2021							0.00023 (J)	0.00039 (J)
3/28/2022	0.00035 (J)							
3/29/2022				0.00037 (J)				
3/30/2022			0.00108		0.00037 (J)		0.0003 (J)	
4/6/2022		0.00051 (J)				0.00029 (J)		0.00052 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.00102							
1/16/2019		<0.00102	<0.00102					
9/11/2019	0.00325 (J)	<0.00102	<0.00102					
4/20/2020			<0.00102	<0.00102				
4/21/2020	<0.00102	<0.00102					<0.00102	<0.00102
5/28/2020						<0.00102		
7/6/2020					<0.00102			
8/11/2020					<0.00102	<0.00102		
8/12/2020			<0.00102					
8/17/2020				<0.00102			<0.00102	
8/19/2020	<0.00102	<0.00102						<0.00102
3/8/2021					<0.00102	<0.00102		
3/9/2021	0.000286 (J)	0.000227 (J)						
3/10/2021			0.000428 (J)	0.000314 (J)			0.00026 (J)	0.000366 (J)
8/17/2021					0.00028 (J)	0.00039 (J)		
8/18/2021	<0.00102	<0.00102		0.0003 (J)			0.00022 (J)	0.0004 (J)
8/23/2021			0.0003 (J)					
3/23/2022					0.00032 (J)	0.0004 (J)		
3/29/2022				0.00026 (J)				
3/30/2022							0.00024 (J)	0.00021 (J)
4/4/2022			0.00022 (J)					
4/6/2022	0.00028 (J)	0.00026 (J)						

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.00102							
4/12/2016	<0.00102							
5/31/2016	<0.00102							
8/17/2016	<0.00102							
10/11/2016	<0.00102							
1/24/2017	<0.00102							
5/9/2017	<0.00102							
6/28/2017	<0.00102							
2/27/2018	<0.00102							
6/5/2018	<0.00102							
11/6/2018	<0.00102							
3/27/2019	<0.00102							
9/11/2019	<0.00102							
4/20/2020				<0.00102	<0.00102		<0.00102	
4/21/2020	<0.00102							
5/28/2020		<0.00102				<0.00102		0.00515 (J)
7/6/2020			<0.00102					
8/11/2020		<0.00102	<0.00102	<0.00102		<0.00102		<0.00102
8/12/2020	<0.00102				<0.00102		<0.00102	
3/8/2021		0.00028 (J)	<0.00102					
3/9/2021						0.000619 (J)		0.000256 (J)
3/10/2021				0.000474 (J)	0.000574 (J)		0.000271 (J)	
3/16/2021	0.000285 (J)							
8/16/2021			0.00038 (J)					
8/17/2021		0.00081 (J)				0.00064 (J)		0.00057 (J)
8/23/2021	0.00027 (J)			0.00046 (J)	0.00039 (J)		0.00029 (J)	
3/23/2022		0.00051 (J)	0.00035 (J)			0.00107		0.00031 (J)
4/4/2022	0.00025 (J)							
4/5/2022					0.0003 (J)		0.00042 (J)	
4/6/2022				0.00047 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.00102
2/17/2016	<0.00102						<0.00102	
4/12/2016	<0.00102							
4/13/2016							<0.00102	<0.00102
5/31/2016	<0.00102						<0.00102	
6/1/2016								<0.00102
8/17/2016	<0.00102						<0.00102	<0.00102
10/11/2016	<0.00102							
10/12/2016							<0.00102	<0.00102
1/24/2017	<0.00102							
1/25/2017							<0.00102	<0.00102
5/10/2017	<0.00102						<0.00102	<0.00102
6/28/2017	<0.00102						<0.00102	<0.00102
2/27/2018	<0.00102						<0.00102	<0.00102
6/5/2018	<0.00102						<0.00102	<0.00102
11/7/2018	<0.00102						<0.00102	<0.00102
3/26/2019	<0.00102						<0.00102	<0.00102
9/10/2019	<0.00102						<0.00102	<0.00102
4/21/2020	<0.00102						<0.00102	<0.00102
8/19/2020	<0.00102						<0.00102	<0.00102
3/9/2021	0.000347 (J)						0.000351 (J)	0.000346 (J)
8/17/2021		0.00065 (J)	0.00057 (J)	0.00067 (J)	0.00035 (J)	0.00086 (J)		
8/24/2021	0.00026 (J)						0.00036 (J)	0.00031 (J)
3/23/2022		0.00111	0.00065 (J)	0.00072 (J)	0.00045 (J)	0.00061 (J)		
3/29/2022	<0.00102						0.00024 (J)	0.00027 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.00102	
4/13/2016	<0.00102	
6/1/2016	<0.00102	
8/17/2016	<0.00102	
10/12/2016	<0.00102	
1/25/2017	<0.00102	
5/10/2017	<0.00102	
6/28/2017	<0.00102	
2/27/2018	<0.00102	
6/5/2018	<0.00102	
11/7/2018	<0.00102	
3/26/2019	<0.00102	
9/10/2019	<0.00102	<0.00102
4/20/2020		<0.00102
4/21/2020	<0.00102	
8/17/2020		<0.00102
8/18/2020	<0.00102	
3/9/2021	0.000381 (J)	
3/10/2021		0.000247 (J)
8/17/2021		0.00033 (J)
8/24/2021	0.0003 (J)	
3/29/2022	0.00027 (J)	
4/5/2022		0.00047 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.0135		<0.0002	<0.0002	0.00732 (J)		
2/17/2016	0.0395		0.0504				0.0169	0.016
4/12/2016					<0.0002	0.00785 (J)	0.0158	
4/13/2016	0.0452	0.0155	0.0448	<0.0002				0.0139
5/31/2016		0.0146	0.0405	<0.0002	<0.0002	0.00712 (J)	0.014	
6/1/2016	0.0576							0.0117
8/15/2016	0.0573							0.0133
8/16/2016		0.016	0.0464	<0.0002	<0.0002		0.0153	
8/17/2016						0.00545 (J)		
10/11/2016	0.0531						0.0162	
10/12/2016		0.0154	0.0489	<0.0002	<0.0002	0.00497 (J)		0.0147
1/24/2017	0.0539						0.0132	0.0122
1/25/2017		0.0139	0.0417	<0.0002	<0.0002	0.00454 (J)		
5/9/2017	0.057		0.0471	<0.0002	<0.0002	0.00488 (J)		
5/10/2017		0.0144					0.014	0.0133
6/27/2017	0.0664						0.0163	0.0141
6/28/2017		0.0134	0.0664	<0.0002	<0.0002	0.00805 (J)		
2/27/2018	0.0652	0.0148	0.0438			0.016		
2/28/2018				<0.0002	<0.0002		0.0157	0.014
6/4/2018	0.0758							
6/5/2018		0.0139	0.036				0.0148	0.0114
6/6/2018				<0.0002	<0.0002	0.024		
11/5/2018			0.0171	<0.0002	<0.0002			
11/6/2018	0.0898						0.0158	0.0141
11/7/2018		0.015				0.0124		
3/26/2019				<0.0002	<0.0002		0.0184	0.0177
3/27/2019	0.176	0.014	0.0292			0.0303		
9/10/2019	0.104	0.0191	0.02	<0.0002		0.0278	0.0201	0.0162
9/11/2019					<0.0002			
4/20/2020					<0.0002		0.0189	0.0146
4/21/2020	0.206			<0.0002		0.0339		
4/22/2020		0.0233	0.0319					
8/11/2020						0.0373		0.0148
8/12/2020							0.0184	
8/17/2020	0.195							
8/18/2020		0.0287	0.0298	<0.0002	<0.0002			
3/9/2021						0.0302		0.0162
3/10/2021			0.0197	0.00118			0.0189	
3/15/2021		0.0475			0.000312			
3/16/2021	0.257							
8/17/2021	0.24							0.0155
8/24/2021		0.0514						
8/25/2021			0.0507	0.00094	7E-05 (J)	0.0436	0.0181	
3/29/2022				0.00088			0.0172	
3/30/2022			0.0157					
4/4/2022	0.296	0.0218				0.0423		
4/6/2022					0.00126			0.0147

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Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.0002				
2/17/2016	0.0101	0.0227	0.00989 (J)		<0.0002	0.00219 (J)	0.00683 (J)	
4/12/2016		0.0209			<0.0002	<0.0002	0.00656 (J)	
4/13/2016	0.0109		0.0106	<0.0002				
6/1/2016	0.0134	0.02	0.011	<0.0002	<0.0002	<0.0002	0.00637 (J)	
8/15/2016	0.0134	0.0225	0.0117					
8/16/2016				<0.0002	<0.0002	<0.0002		
8/17/2016							0.00659 (J)	0.0167
9/20/2016								0.0122
10/11/2016			0.0117		<0.0002	<0.0002	0.00687 (J)	
10/12/2016	0.0204	0.0206		<0.0002				0.00839 (J)
11/15/2016								0.00562 (J)
1/4/2017								0.00655 (J)
1/23/2017								0.0116
1/24/2017	0.0157	0.015	0.00863 (J)		<0.0002	<0.0002	0.00522 (J)	
1/25/2017				<0.0002				
5/9/2017			0.00975 (J)	<0.0002	<0.0002		0.00646 (J)	0.0167
5/10/2017	0.0179	0.0141				<0.0002		
6/27/2017	0.0166	0.0144			<0.0002			0.0109
6/28/2017			0.0102	<0.0002		<0.0002	0.00721 (J)	
2/27/2018			0.00924 (J)		<0.0002	<0.0002		0.00278 (J)
2/28/2018	0.0251	0.0136		<0.0002			0.00771 (J)	
6/4/2018			0.00866 (J)					
6/5/2018	0.0456	0.0138			<0.0002	<0.0002		0.00223 (J)
6/6/2018				<0.0002			0.00712 (J)	
11/5/2018				<0.0002				
11/6/2018	0.0321	0.0158	0.0101				0.00791	0.00202 (J)
11/7/2018					<0.0002	<0.0002		
3/26/2019	0.0192	0.0161		<0.0002	<0.0002	<0.0002		<0.0002
3/27/2019			0.0131				0.0114	
9/9/2019	0.0121	0.0174	0.0154					
9/10/2019				<0.0002	<0.0002	<0.0002	0.0127	
9/11/2019								<0.0002
4/21/2020	0.0158	0.0173	0.0194	<0.0002	<0.0002			<0.0002
4/22/2020						<0.0002	0.0133	
8/11/2020	0.0122						0.0126	
8/12/2020		0.0152			<0.0002	<0.0002		
8/17/2020			0.0249					
8/18/2020				<0.0002				0.00279 (J)
3/9/2021	0.0151	0.017						
3/10/2021				0.00204	<0.0002	0.000676	0.0115	
3/15/2021								0.000606
3/16/2021			0.0272					
8/17/2021	0.0109	0.0175	0.0296					
8/18/2021								0.00067
8/24/2021					<0.0002	0.00073	0.0117	
8/25/2021				0.00147				
3/28/2022			0.0309		<0.0002			
3/29/2022							0.0101	
3/30/2022				0.00284				
4/4/2022	0.0115					0.00073		0.00045
4/6/2022		0.0183						

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Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.00507 (J)				
4/12/2016				0.0047 (J)				
6/1/2016				0.00372 (J)				
8/15/2016				0.0039 (J)				
8/16/2016			0.0122		0.00548 (J)	<0.0002	<0.0002	0.00923 (J)
8/17/2016	0.00692 (J)	0.00599 (J)						
9/19/2016						0.00242 (J)	<0.0002	0.00539 (J)
9/20/2016	0.00232 (J)	0.00466 (J)	0.012		0.0026 (J)			
10/11/2016			0.0135	0.00415 (J)	0.00214 (J)	0.0024 (J)	<0.0002	0.00506 (J)
10/12/2016	<0.0002	0.00394 (J)						
11/14/2016						<0.0002	<0.0002	0.00399 (J)
11/15/2016	<0.0002	0.00296 (J)	0.00938 (J)		<0.0002			
1/3/2017						0.00217 (J)	<0.0002	0.0037 (J)
1/4/2017	<0.0002	0.00448 (J)	0.00859 (J)		<0.0002			
1/23/2017	0.00203 (J)				<0.0002			
1/24/2017		0.00259 (J)		0.00383 (J)		0.00239 (J)	<0.0002	
1/25/2017								0.0077 (J)
1/26/2017			0.0104					
5/9/2017	<0.0002	<0.0002	0.0119	0.00396 (J)	<0.0002			
5/10/2017						<0.0002	<0.0002	0.00291 (J)
6/27/2017	<0.0002	<0.0002	0.0106		<0.0002	<0.0002	<0.0002	0.00247 (J)
6/28/2017				0.00336 (J)				
2/27/2018	<0.0002	<0.0002	0.0027 (J)	0.00442 (J)	<0.0002	<0.0002	<0.0002	<0.0002
6/4/2018				0.0038 (J)				
6/5/2018	<0.0002	<0.0002	0.00317 (J)		<0.0002	<0.0002	<0.0002	<0.0002
11/5/2018						<0.0002		
11/6/2018	<0.0002	<0.0002	0.00367 (J)	0.00439 (J)	<0.0002	<0.0002		<0.0002
3/26/2019	<0.0002	<0.0002	<0.0002		<0.0002			
3/27/2019				0.00463 (J)		<0.0002	<0.0002	<0.0002
9/9/2019				0.00413 (J)				
9/11/2019	<0.0002	<0.0002	0.00265 (J)		<0.0002	<0.0002	<0.0002	<0.0002
4/20/2020				0.00396 (J)				
4/21/2020	<0.0002	<0.0002	<0.0002		<0.0002			
4/22/2020						<0.0002	<0.0002	<0.0002
8/11/2020						<0.0002		
8/12/2020							<0.0002	<0.0002
8/17/2020				<0.0002				
8/18/2020	<0.0002	<0.0002	0.00224 (J)		<0.0002			
3/15/2021	0.000139 (J)	0.000452	0.00145		0.000137 (J)	0.000624	0.000908	<0.0002
3/16/2021				0.00076				
8/17/2021				0.00039				
8/18/2021	0.00016 (J)	0.00036	0.0019		0.00011 (J)			
8/23/2021						0.0006	0.00105	<0.0002
3/28/2022	0.00014 (J)	0.00052	0.00079		7E-05 (J)	0.00061	<0.0002	0.00099
4/5/2022				0.00083				

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Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.0002			
1/15/2019				0.0407		0.0173	0.0203	0.0044 (J)
1/16/2019		<0.0002						
1/17/2019	0.033							
1/30/2019			<0.0002					
9/10/2019	0.0131						0.0139	
9/11/2019		<0.0002	<0.0002		0.00363 (J)	0.0194		0.00897
4/20/2020							0.0132	
4/21/2020		<0.0002						
4/22/2020	0.00675		<0.0002	0.0327	<0.0002	0.0192		
4/29/2020								0.00777
8/11/2020			<0.0002			0.0176		
8/12/2020	0.00222 (J)						0.00717	
8/18/2020		<0.0002						0.00814
8/19/2020				0.0176	<0.0002			
3/9/2021			0.000522			0.0178		
3/10/2021					0.000455		0.00791	
3/15/2021	0.00198							0.00472
3/16/2021		<0.0002		0.0225				
8/23/2021	0.00159							
8/24/2021		<0.0002	0.00032	0.0228	0.00071	0.0183		
8/25/2021							0.00901	0.0101
3/28/2022	0.00117							
3/29/2022				0.0198				
3/30/2022			0.0007		0.00034		0.0103	
4/6/2022		8E-05 (J)				0.0173		0.0185

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.0281							
1/16/2019		0.0131	0.106					
9/11/2019	0.0449	0.0143	0.106					
4/20/2020			0.324	0.00451 (J)				
4/21/2020	0.0359	0.0162					0.00236 (J)	0.00799
5/28/2020						<0.0002		
7/6/2020					<0.0002			
8/11/2020					<0.0002	<0.0002		
8/12/2020			0.273					
8/17/2020				0.00458 (J)			<0.0002	
8/19/2020	0.037	0.0173						0.00853
3/8/2021					0.00155	<0.0002		
3/9/2021	0.0559	0.0175						
3/10/2021			0.415	0.00442			0.000388	0.00662
8/17/2021					0.00295	0.00025		
8/18/2021	0.0436	0.0196		0.0119			0.0004	0.00507
8/23/2021			0.428					
3/23/2022					0.0053	0.00025		
3/29/2022				0.0108				
3/30/2022							0.00018 (J)	0.00562
4/4/2022			0.323					
4/6/2022	0.0651	0.0184						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.0216							
4/12/2016	0.0205							
5/31/2016	0.0196							
8/17/2016	0.0169							
10/11/2016	0.0157							
1/24/2017	0.00858 (J)							
5/9/2017	0.00755 (J)							
6/28/2017	0.0069 (J)							
2/27/2018	0.00471 (J)							
6/5/2018	0.00481 (J)							
11/6/2018	0.00545							
3/27/2019	0.00614							
9/11/2019	0.00767							
4/20/2020				0.119	0.0203		0.0862	
4/21/2020	0.00601							
5/28/2020		0.00801				<0.0002		0.0445
7/6/2020			0.0158					
8/11/2020		0.0056	0.0129	0.0859		<0.0002		0.022
8/12/2020	0.00678				0.0272		0.0857	
3/8/2021		0.00553	0.0153					
3/9/2021						0.000738		0.0263
3/10/2021				0.0204	0.0239		0.0345	
3/16/2021	0.00857							
8/16/2021			0.0146					
8/17/2021		0.00608				0.00095		0.0216
8/23/2021	0.00645			0.0233	0.031		0.0477	
3/23/2022		0.0096	0.0164			0.00102		0.0281
4/4/2022	0.0104							
4/5/2022					0.0265		0.0191	
4/6/2022				0.00706				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								0.0129
2/17/2016	<0.0002						<0.0002	
4/12/2016	<0.0002							
4/13/2016							0.00218 (J)	0.0139
5/31/2016	0.00389 (J)						0.00328 (J)	
6/1/2016								0.0139
8/17/2016	0.00234 (J)						0.00217 (J)	0.0138
10/11/2016	0.00202 (J)							
10/12/2016							0.00225 (J)	0.0138
1/24/2017	<0.0002							
1/25/2017							<0.0002	0.0115
5/10/2017	<0.0002						<0.0002	0.0125
6/28/2017	<0.0002						<0.0002	0.0137
2/27/2018	<0.0002						<0.0002	0.00698 (J)
6/5/2018	0.00237 (J)						<0.0002	0.00478 (J)
11/7/2018	0.00258 (J)						0.00277 (J)	0.00651
3/26/2019	0.00223 (J)						0.0024 (J)	0.00445 (J)
9/10/2019	0.00306 (J)						0.0034 (J)	0.0108
4/21/2020	0.00228 (J)						0.00206 (J)	0.0111
8/19/2020	0.00278 (J)						0.0046 (J)	0.00975
3/9/2021	0.00367						0.00181	0.00707
8/17/2021		0.00077	0.00049	0.00033	0.00081	0.00348		
8/24/2021	0.00419						0.00333	0.00898
3/23/2022		0.0007	0.00037	0.00038	0.00031	0.00419		
3/29/2022	0.00223						0.0014	0.00619

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.00869 (J)	
4/13/2016	0.00936 (J)	
6/1/2016	0.00976 (J)	
8/17/2016	0.012	
10/12/2016	0.0127	
1/25/2017	0.0109	
5/10/2017	0.0129	
6/28/2017	0.0125	
2/27/2018	0.013	
6/5/2018	0.0113	
11/7/2018	0.0145	
3/26/2019	0.0167	
9/10/2019	0.0177	0.146
4/20/2020		0.157
4/21/2020	0.0166	
8/17/2020		0.148
8/18/2020	0.0164	
3/9/2021	0.0247	
3/10/2021		0.167
8/17/2021		0.211
8/24/2021	0.0323	
3/29/2022	0.0267	
4/5/2022		0.39

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<3		<3	<3	<3		
2/17/2016	<3		<3				<3	<3
4/12/2016					<3	<3	<3	
4/13/2016	1.0468 (U)	<3	<3	<3				<3
5/31/2016		0.899	0.145 (U)	0.21 (U)	0.313 (U)	0.624	0.41 (U)	
6/1/2016	1.43							0.515
8/15/2016	1.42							0.843
8/16/2016		0.82	0.521 (U)	0.697	0.435 (U)		0.399 (U)	
8/17/2016						0.49 (U)		
10/11/2016	1.6						0.00389 (U)	
10/12/2016		0.92	0.669 (U)	0.421 (U)	-0.0137 (U)	-0.0237 (U)		0.397 (U)
1/24/2017	1.3						0.35 (U)	0.269 (U)
1/25/2017		1.2	0.789	0.265 (U)	0.309 (U)	0.455 (U)		
5/9/2017	0.844		0.647	-0.132 (U)	0.42	0.451		
5/10/2017		0.665					0.0662 (U)	0.454
6/27/2017	1.32						0.793	1.25
6/28/2017		0.29 (U)	0.415	0.493	0.373	0.63		
2/27/2018			0.864	1.89	1.25	1.59		
2/28/2018	0.815	0.558					3.99	1.17
6/4/2018	1.01							
6/5/2018		0.698	0.244 (U)				-0.365 (U)	0.337 (U)
6/6/2018				0.114 (U)	0.258 (U)	0.943		
11/5/2018			0.682	0.048 (U)	0.441 (U)			
11/6/2018	0.938						0.391 (U)	0.661
11/7/2018		0.568				0.888		
3/26/2019				0.381	0.471		0.535	1.18
3/27/2019	1.17	0.988	0.564			1.1		
9/10/2019	1.39	1.1	0.57	0.434 (U)		0.852	0.3 (U)	0.516 (U)
9/11/2019					0.557 (U)			
4/20/2020					0.256 (U)		0.693	0.493 (U)
4/21/2020	0.712			-0.0655 (U)		0.653		
4/22/2020		1.11	0.502 (U)					
8/11/2020						1.64		1.48
8/12/2020							0.983	
8/17/2020	1.46							
8/18/2020		1.08	0.457 (U)	0.135 (U)	0.568 (U)			
3/9/2021						1.28 (U)		1.2 (U)
3/10/2021			0.666 (U)	0.481 (U)			0.335 (U)	
3/15/2021		1.12 (U)			0.537 (U)			
3/16/2021	1.45							
8/17/2021	1.36							0.49 (U)
8/24/2021		1.45						
8/25/2021			0.729 (U)	0.113 (U)	0.3 (U)	1.01	0.314 (U)	
3/29/2022				1.37			0.273 (U)	
3/30/2022			0.597 (U)					
4/4/2022	0.899	2.08				1.03		
4/6/2022					0.338 (U)			1 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<3				
2/17/2016	<3	<3	<3		<3	<3	<3	
4/12/2016		<3			<3	<3	<3	
4/13/2016	<3		<3	<3				
6/1/2016	0.972	1.55	0.758	0.126 (U)	0.044 (U)	0.407	0.1 (U)	
8/15/2016	1.43	1.85	0.638					
8/16/2016				0.477	0.213 (U)	0.547 (U)		
8/17/2016							0.372 (U)	0.66
9/20/2016								0.582
10/11/2016			0.701		0.184 (U)	0.845	0.277 (U)	
10/12/2016	0.246 (U)	0.481		0.137 (U)				-0.183 (U)
11/15/2016								0.262 (U)
1/4/2017								0.255 (U)
1/23/2017								0.871
1/24/2017	0.918	0.889	0.515 (U)		0.251 (U)	0.403 (U)	0.585	
1/25/2017				0.55				
5/9/2017			0.393 (U)	0.182 (U)	0.631		0.489	0.575
5/10/2017	1.27	1.01				0.645		
6/27/2017	1.51	1.17			0.145 (U)			0.459
6/28/2017			0.374	0.228 (U)		0.93	0.333	
2/27/2018		0.702	0.334 (U)	0.293 (U)	0.402 (U)	1.88	1.08	1.3
2/28/2018	1.05							
6/4/2018			0.64					
6/5/2018	1.07	0.999			0.313 (U)	1.13		0.269 (U)
6/6/2018				-0.056 (U)			0.016 (U)	
11/5/2018				0.637				
11/6/2018	1.05	0.913	0.803				0.0751 (U)	0.328 (U)
11/7/2018					0.496 (U)	1.72		
3/26/2019	1.57	1.35		0.405	0.315 (U)	1.21		0.571
3/27/2019			0.77				0.309 (U)	
9/9/2019	1.29	1.08	0.3 (U)					
9/10/2019				0.0889 (U)	0.219 (U)	1.21	0.578	
9/11/2019								0.561
4/21/2020	0.859	0.888	0.663 (U)	0.271 (U)	0.166 (U)			0.215 (U)
4/22/2020						0.791	0.218 (U)	
8/11/2020	2.14						0.511 (U)	
8/12/2020		1.17				0.986	0.919	
8/17/2020			0.817					
8/18/2020				-0.0105 (U)				2.3
3/9/2021	2.27	1.11 (U)						
3/10/2021				0.418 (U)	1.01 (U)	2.15	1.03 (U)	
3/15/2021								0.347 (U)
3/16/2021			1.05 (U)					
8/17/2021	1.97	2.04	2.01					
8/18/2021								0.327 (U)
8/24/2021					0.735 (U)	1.23	0.693 (U)	
8/25/2021				0.305 (U)				
3/28/2022			0.745 (U)		0.99 (U)			
3/29/2022							0.37 (U)	
3/30/2022				1.04				
4/4/2022	2.17					1.43		0.55 (U)
4/6/2022		1.18 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<3				
4/12/2016				<3				
6/1/2016				1.06				
8/15/2016				0.972				
8/16/2016			0.522		0.434 (U)	1.34	0.951	0.534 (U)
8/17/2016	0.386 (U)	1.47						
9/19/2016						0.561 (U)	0.242 (U)	0.238 (U)
9/20/2016	0.794	1.24	0.746		0.51			
10/11/2016			0.819	0.802	0.166 (U)	0.118 (U)	0.34 (U)	0.158 (U)
10/12/2016	0.81	0.899						
11/14/2016						0.984	0.447 (U)	0.641
11/15/2016	0.366 (U)	0.933	0.516		0.589			
1/3/2017						0.473 (U)	0.729	0.834
1/4/2017	0.356 (U)	1.54	0.648 (U)		0.659			
1/23/2017	0.429 (U)				0.227 (U)			
1/24/2017		0.868		1.1		-0.422 (U)	0.184 (U)	
1/25/2017								0.605
1/26/2017			0.852					
5/9/2017	0.62	1.22	0.148 (U)	0.74	0.436 (U)			
5/10/2017						0.706		0.563
5/31/2017							0.454	
6/27/2017	0.319 (U)	0.925	0.393		0.197 (U)	0.412	-0.111 (U)	0.937
6/28/2017				0.867				
2/27/2018	0.271 (U)	0.0271 (U)	0.695	0.905	0.896	0.314 (U)	0.146 (U)	0.475
6/4/2018				0.954				
6/5/2018	0.391	0.792	0.145 (U)		0.342 (U)	0.218 (U)	-0.128 (U)	1.65
11/5/2018							0.0946 (U)	
11/6/2018	0.646	0.926	0.513 (U)	1.27	0.928	0.566 (U)		1.55
3/26/2019	0.498	1.08	0.598		1.3			
3/27/2019				1.47		0.29 (U)	0.5	1.83
9/9/2019				1.12				
9/11/2019	0.368 (U)	0.995	0.237 (U)		0.995	0.28 (U)	-0.464 (U)	1.02
4/20/2020				0.899				
4/21/2020	0.55	0.307 (U)	0.201 (U)		0.00976 (U)			
4/22/2020						0.0983 (U)	0.474 (U)	1.08
8/11/2020						0.767		
8/12/2020							3.18	3.41
8/17/2020				0.738				
8/18/2020	0.504 (U)	0.797	3.88		3.33			
3/15/2021	0.578 (U)	1.5	0.618 (U)		0.601 (U)	0.817 (U)	1.11 (U)	0.771 (U)
3/16/2021				0.553 (U)				
8/17/2021				1.09				
8/18/2021	0.941 (U)	0.779 (U)	0.937 (U)		1.22 (U)			
8/23/2021						0.345 (U)	1.09	1.01 (U)
3/28/2022	0.733 (U)	0.554 (U)	0.529 (U)		0.714 (U)	0.413 (U)	0.682 (U)	1.36
4/5/2022				0.532 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.359 (U)			
1/15/2019				0.354 (U)		0.901	0.387 (U)	0.839
1/16/2019		0.0207 (U)						
1/17/2019	0.628							
1/30/2019			0.479 (U)					
9/10/2019	0.656						0.519 (U)	
9/11/2019		0.734	0.412 (U)		1.22	1.16		0.13 (U)
4/20/2020							0.66	
4/21/2020		0.423 (U)						
4/22/2020	0.473 (U)		-0.103 (U)	0.273 (U)	0.413 (U)	1.48		
4/29/2020								0.684
8/11/2020			0.223 (U)			2.02		
8/12/2020	2.1						0.928	
8/18/2020		0.636 (U)						0.742
8/19/2020				0.994	0.347 (U)			
3/9/2021			0.296 (U)			1.62		
3/10/2021					0.566 (U)		0.522 (U)	
3/15/2021	0.858 (U)							0.946 (U)
3/16/2021		0.536 (U)		0.954 (U)				
8/23/2021	0.336 (U)							
8/24/2021		0.492 (U)	0.253 (U)	0.282 (U)	0.417 (U)	0.823 (U)		
8/25/2021							1.09 (U)	0.938 (U)
3/28/2022	0.466 (U)			0.405 (U)				
3/29/2022				0.405 (U)				
3/30/2022			0.174 (U)		0.248 (U)		0.745 (U)	
4/6/2022		0.108 (U)				1.24		1.12

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.739							
1/16/2019		0.426 (U)	0.422 (U)					
9/11/2019	0.195 (U)	0.558 (U)	0.637 (U)					
4/20/2020			0.386 (U)	0.529				
4/21/2020	0.678	1.89					0.251 (U)	0.594
5/28/2020						-0.0036 (U)		
7/6/2020					0.292 (U)			
8/11/2020					0.477 (U)	0.208 (U)		
8/12/2020			4.07					
8/17/2020				1.16			1.11	
8/19/2020	0.687	1.99						0.0107 (U)
3/8/2021					0.291 (U)	0.568 (U)		
3/9/2021	0.618 (U)	1.54						
3/10/2021			0.923 (U)	0.21 (U)			0.57 (U)	0.261 (U)
8/17/2021					0.651 (U)	0.339 (U)		
8/18/2021	1.9	1.64		1.1			0.595 (U)	1.11 (U)
8/23/2021			1.13					
3/23/2022					0.547 (U)	0.214 (U)		
3/29/2022				0.661 (U)				
3/30/2022							0.315 (U)	0.254 (U)
4/4/2022			0.795 (U)					
4/6/2022	1.01	1.84						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<3							
4/12/2016	<3							
5/31/2016	2.11							
8/17/2016	2.28							
10/11/2016	1.83							
1/24/2017	1.92							
5/9/2017	3.05							
6/28/2017	2.24							
2/27/2018	1.01							
6/5/2018	1.39							
11/6/2018	1.72							
3/27/2019	1.56							
9/11/2019	1.46							
4/20/2020				1.13	1		1.5	
4/21/2020	0.882							
5/28/2020		0.612				0.0544 (U)		2.27
7/6/2020			0.432 (U)					
8/11/2020		0.883	0.777	1.56		0.462 (U)		0.997
8/12/2020	2.08				2.14		0.991	
3/8/2021		1 (U)	2.06					
3/9/2021						1.02 (U)		1.6
3/10/2021				1.29 (U)	1.41		1.25 (U)	
3/16/2021	1.71							
8/16/2021			1.3					
8/17/2021		0.939 (U)				0.442 (U)		1.19 (U)
8/23/2021	2.11			2.06	0.978 (U)		1.52	
3/23/2022		0.908 (U)	0.999			0.748 (U)		1.02 (U)
4/4/2022	1.13							
4/5/2022					0.963 (U)		0.689 (U)	
4/6/2022				1.59				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<3
2/17/2016	<3						<3	
4/12/2016	<3							
4/13/2016							<3	<3
5/31/2016	0.453 (U)						0.658	
6/1/2016								0.884
8/17/2016	0.381 (U)						0.936	1.06
10/11/2016	0.139 (U)							
10/12/2016							0.668	0.269 (U)
1/24/2017	0.496							
1/25/2017							0.718	1.12
5/10/2017	0.278 (U)						0.56	0.887
6/28/2017	0.724						0.526	0.908
2/27/2018	0.214 (U)						0.803	
2/28/2018								0.131 (U)
6/5/2018	0.176 (U)						0.577	0.564
11/7/2018	1.39						1.51	0.34 (U)
3/26/2019	0.904						0.841	0.507
9/10/2019	1.14						0.569 (U)	0.898
4/21/2020	0.679 (U)						0.549 (U)	1.09
8/19/2020	0.96						1.04	0.6 (U)
3/9/2021	1.12 (U)						0.545 (U)	1.6
8/17/2021		0.612 (U)	0.404 (U)	0.437 (U)	0.219 (U)	0.56 (U)		
8/24/2021	0.645 (U)						0.865 (U)	1.67
3/23/2022		0.932 (U)	0.201 (U)	0.829 (U)	0.207 (U)	1.03		
3/29/2022	0.394 (U)						0.575 (U)	0.621 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<3	
4/13/2016	<3	
6/1/2016	0.532	
8/17/2016	1.07	
10/12/2016	1.07	
1/25/2017	1.46	
5/10/2017	1.21	
6/28/2017	0.821	
2/28/2018	0.232 (U)	
6/5/2018	0.722	
11/7/2018	0.82	
3/26/2019	1.49	
3/27/2019		1.69
9/10/2019	1.75	1.89
4/20/2020		1.59
4/21/2020	1.31	
8/17/2020		1.16
8/18/2020	1.59	
3/9/2021	1.16 (U)	
3/10/2021		1.36 (U)
8/17/2021		1.76
8/24/2021	1.43	
3/29/2022	1.25	
4/5/2022		1.73

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.23 (J)		0.16 (J)	0.14 (J)	0.13 (J)		
2/17/2016	0.05 (J)		0.11 (J)				0.09 (J)	0.2 (J)
4/12/2016					0.119 (J)	0.137 (J)	0.107 (J)	
4/13/2016	0.061 (J)	0.236 (J)	0.119 (J)	0.163 (J)				0.173 (J)
5/31/2016		0.255 (J)	0.134 (J)	0.19 (J)	0.132 (J)	0.149 (J)	0.145 (J)	
6/1/2016	0.079 (J)							0.253 (J)
8/15/2016	0.081 (J)							0.224 (J)
8/16/2016		0.238 (J)	0.116 (J)	0.219 (J)	0.177 (J)		0.135 (J)	
8/17/2016						0.147 (J)		
10/11/2016	0.049 (J)						0.096 (J)	
10/12/2016		0.198 (J)	0.076 (J)	0.163 (J)	0.149 (J)	0.115 (J)		0.187 (J)
3/14/2017	0.04 (J)		0.09 (J)			0.11	0.09 (J)	0.23
3/15/2017		0.22		0.13	0.16			
5/9/2017	0.05 (J)		0.11	0.15	0.18	0.14		
5/10/2017		0.25					0.11	0.23
6/27/2017	0.04 (J)						0.1	0.22
6/28/2017		0.09 (J)	0.17	0.17	0.18	0.13		
8/29/2017		0.26	0.14	0.22	0.19	0.14		
8/30/2017	0.04 (J)						0.13	0.28
2/27/2018	0.07 (J)	0.26	0.14			0.13		
2/28/2018				0.19	0.14		0.09 (J)	0.23
6/4/2018	0.07 (J)							
6/5/2018		0.24	0.16				0.13	0.28
6/6/2018				0.19	0.13	0.15		
11/5/2018			0.15	0.2	0.15			
11/6/2018	0.04 (J)						0.12	0.24
11/7/2018		0.25				0.19		
3/26/2019				0.196	0.0775 (J)		0.113	0.316
3/27/2019	0.192	0.206	0.104			0.248		
9/10/2019	0.179	0.226	0.191	0.26		0.209	0.122	0.267
9/11/2019					0.118			
4/20/2020					0.0844 (J)		0.14	0.245
4/21/2020	0.12			0.198		0.254		
4/22/2020		0.224	0.167					
8/11/2020						0.278		0.294
8/12/2020							0.147	
8/17/2020	0.115							
8/18/2020		0.203	0.165	0.223	0.108			
3/9/2021						0.263		0.286
3/10/2021			0.0749 (J)	0.161			0.115	
3/15/2021		0.324			0.0737 (J)			
3/16/2021	0.129							
8/17/2021	0.158							0.286
8/24/2021		0.277						
8/25/2021			0.135	0.188	0.111	0.239	0.167	
3/29/2022				0.107 (J)			0.117 (J)	
3/30/2022			<0.125					
4/4/2022	0.124 (D)	0.2785 (D)				0.226 (D)		
4/6/2022					<0.125			0.2395 (D)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.18 (J)				
2/17/2016	0.53	0.15 (J)	0.09 (J)		0.08 (J)	0.02 (J)	0.02 (J)	
4/12/2016		0.168 (J)			0.077 (J)	0.026 (J)	0.021 (J)	
4/13/2016	0.437		0.092 (J)	0.191 (J)				
6/1/2016	0.376	0.178 (J)	0.108 (J)	0.201 (J)	0.101 (J)	0.057 (J)	0.051 (J)	
8/15/2016	0.362	0.149 (J)	0.105 (J)					
8/16/2016				0.218 (J)	0.093 (J)	0.046 (J)		
8/17/2016							0.037 (J)	0.159 (J)
9/20/2016								0.126 (J)
10/11/2016			0.062 (J)		0.059 (J)	<0.125	<0.125	
10/12/2016	0.377	0.12 (J)		0.171 (J)				0.1 (J)
11/15/2016								0.016 (J)
1/4/2017								<0.125
3/13/2017								0.31 (o)
3/14/2017	0.41	0.17	<0.125		0.07 (J)	<0.125	<0.125	
3/15/2017				0.16				
5/9/2017			0.07 (J)	0.17	0.08 (J)		<0.125	0.25 (o)
5/10/2017	0.36	0.17				<0.125		
6/27/2017	0.38	0.18			0.08 (J)			0.22 (o)
6/28/2017			0.09 (J)	0.18		<0.125	0.04 (J)	
8/29/2017				0.23	0.1	0.04 (J)	<0.125	0.22 (o)
8/30/2017	0.38	0.21	0.07 (J)					
2/27/2018			0.08 (J)		0.08 (J)	<0.125		0.08 (J)
2/28/2018	0.58	0.17		0.2			<0.125	
6/4/2018			0.09 (J)					
6/5/2018	0.41	0.17			0.09 (J)	0.04 (J)		0.07 (J)
6/6/2018				0.19			<0.125	
11/5/2018				0.22				
11/6/2018	0.45	0.17	0.07 (J)				<0.125	0.07 (J)
11/7/2018					0.08 (J)	<0.125		
3/26/2019	0.573	0.192		0.219	0.123	<0.125		<0.125
3/27/2019			0.089 (J)				<0.125	
9/9/2019	0.477	0.157	0.163					
9/10/2019				0.194	0.0914 (J)	0.0545 (J)	<0.125	
9/11/2019								0.0716 (J)
4/21/2020	0.565	0.171	0.126	0.173	0.095 (J)			<0.125
4/22/2020						<0.125	<0.125	
8/11/2020	0.515						<0.125	
8/12/2020		0.198			0.0867 (J)	<0.125		
8/17/2020			0.0753 (J)					
8/18/2020				0.18				<0.125
3/9/2021	0.628	0.205						
3/10/2021				0.113	0.085 (J)	<0.125	0.104	
3/15/2021								<0.125
3/16/2021			0.185					
8/17/2021	0.494	0.212	0.0974 (J)					
8/18/2021								<0.125
8/24/2021					0.0713 (J)	<0.125	0.0914 (J)	
8/25/2021				0.117				
3/28/2022			0.105 (J)		<0.125			
3/29/2022							0.0724 (J)	
3/30/2022				<0.125				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
4/4/2022	0.5855 (D)					<0.125		<0.125
4/6/2022		0.1385 (D)						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.08 (J)				
4/12/2016				0.083 (J)				
6/1/2016				0.118 (J)				
8/15/2016				0.109 (J)				
8/16/2016			0.05 (J)		0.036 (J)	0.087 (J)	0.054 (J)	0.061 (J)
8/17/2016	0.039 (J)	0.055 (J)						
9/19/2016						0.045 (J)	0.023 (J)	0.018 (J)
9/20/2016	0.01 (o)	0.021 (o)	0.015 (J)		<0.125			
10/11/2016			<0.125	0.066 (J)	<0.125	0.034 (J)	0.011 (J)	<0.125
10/12/2016	<0.125	<0.125						
11/14/2016						<0.125	<0.125	<0.125
11/15/2016	<0.125	<0.125	<0.125		<0.125			
1/3/2017						<0.125	<0.125	<0.125
1/4/2017	<0.125	<0.125	<0.125		<0.125			
3/13/2017			<0.125					
3/14/2017	<0.125	<0.125		0.07 (J)	<0.125	<0.125	<0.125	<0.125
5/9/2017	<0.125	<0.125	<0.125	0.09 (J)	<0.125			
5/10/2017						0.05 (J)	0.05 (J)	0.06 (J)
6/27/2017	<0.125	<0.125	<0.125		<0.125	0.05 (J)	0.04 (J)	0.07 (J)
6/28/2017				0.1				
8/29/2017	<0.125							
8/30/2017		<0.125	<0.125	0.12	<0.125	<0.125	0.04 (J)	0.08 (J)
2/27/2018	<0.125	<0.125	<0.125	0.09 (J)	<0.125	<0.125	0.04 (J)	0.07 (J)
6/4/2018				0.1				
6/5/2018	<0.125	<0.125	<0.125		<0.125	<0.125	0.04 (J)	0.1
11/5/2018							<0.125	
11/6/2018	<0.125	<0.125	<0.125	0.1	<0.125	<0.125		0.08 (J)
3/26/2019	<0.125	<0.125	<0.125		<0.125			
3/27/2019				0.13		<0.125	<0.125	<0.125
9/9/2019				0.121				
9/11/2019	<0.125	0.0649 (J)	<0.125		<0.125	<0.125	0.0518 (J)	<0.125
4/20/2020				0.112				
4/21/2020	<0.125	<0.125	<0.125		<0.125			
4/22/2020						<0.125	<0.125	<0.125
8/11/2020						<0.125		
8/12/2020							<0.125	<0.125
8/17/2020				0.148				
8/18/2020	<0.125	<0.125	<0.125		<0.125			
3/15/2021	<0.125	<0.125	<0.125		<0.125	<0.125	<0.125	<0.125
3/16/2021				0.23				
8/17/2021				0.184				
8/18/2021	<0.125	<0.125	<0.125		<0.125			
8/23/2021						<0.125	<0.125	<0.125
3/28/2022	<0.125	<0.125	<0.125		<0.125	<0.125	<0.125	<0.125
4/5/2022				0.146 (D)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.0841 (J)			
1/15/2019				0.0512 (J)		0.465	0.0981 (J)	0.0859 (J)
1/16/2019		<0.125						
1/17/2019	<0.125							
1/30/2019			0.264					
9/10/2019	<0.125						0.18	
9/11/2019		0.082 (J)	0.289		0.142	0.443		0.0609 (J)
4/20/2020							0.0952 (J)	
4/21/2020		0.16						
4/22/2020	<0.125		0.279	0.197	0.135	0.446		
4/29/2020								0.0857 (J)
8/11/2020			0.325			0.494		
8/12/2020	<0.125						0.145	
8/18/2020		0.0766 (J)						0.092 (J)
8/19/2020				0.141	0.149			
3/9/2021			0.365			0.458		
3/10/2021					0.131		0.112	
3/15/2021	<0.125							0.0721 (J)
3/16/2021		0.0841 (J)		0.263				
8/23/2021	<0.125							
8/24/2021		0.0681 (J)	0.318	0.194	0.197	0.508		
8/25/2021							0.142	0.074 (J)
3/28/2022	<0.125							
3/29/2022				0.189				
3/30/2022			0.301		0.0661 (J)		<0.125	
4/6/2022		<0.125				0.3765 (D)		<0.125

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.125							
1/16/2019		0.0888 (J)	0.0727 (J)					
9/11/2019	0.063 (J)	0.127	0.0783 (J)					
4/20/2020			0.0638 (J)	0.176				
4/21/2020	0.0701 (J)	0.147					<0.125	0.075 (J)
5/28/2020						0.0647 (J)		
7/6/2020					0.185			
8/11/2020					0.169	<0.125		
8/12/2020			0.0867 (J)					
8/17/2020				0.195			<0.125	
8/19/2020	0.077 (J)	0.154						0.0823 (J)
3/8/2021					0.187	<0.125		
3/9/2021	0.0697 (J)	0.135						
3/10/2021			0.0611 (J)	0.176			<0.125	<0.125
8/17/2021					0.177	<0.125		
8/18/2021	0.111	0.166		0.172			<0.125	0.0638 (J)
8/23/2021			0.11					
3/23/2022					0.158	<0.125		
3/29/2022				0.162				
3/30/2022							<0.125	0.0724 (J)
4/4/2022			<0.125					
4/6/2022	0.06445 (D)	0.11535 (D)						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.22 (J)							
4/12/2016	0.214 (J)							
5/31/2016	0.232 (J)							
8/17/2016	0.225 (J)							
10/11/2016	0.19 (J)							
3/14/2017	0.22							
5/9/2017	0.21							
6/28/2017	0.21							
8/30/2017	0.25							
2/27/2018	0.23							
6/5/2018	0.24							
11/6/2018	0.22							
3/27/2019	0.208							
9/11/2019	0.2							
4/20/2020				0.154	0.25		0.189	
4/21/2020	0.224							
5/28/2020		0.138				<0.125		0.0914 (J)
7/6/2020			0.0721 (J)					
8/11/2020		0.16	0.0762 (J)	0.133		<0.125		0.137
8/12/2020	0.221				0.275		0.165	
3/8/2021		0.127	0.0628 (J)					
3/9/2021						<0.125		0.0715 (J)
3/10/2021				0.135	0.25		0.112	
3/16/2021	0.282							
8/16/2021			0.0613 (J)					
8/17/2021		0.155				<0.125		0.096 (J)
8/23/2021	0.322			0.245	0.328		0.244	
3/23/2022		0.16	0.0894 (J)			<0.125		0.0775 (J)
4/4/2022	0.216							
4/5/2022					0.2325 (D)		<0.125 (D)	
4/6/2022				0.0946 (JD)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								0.08 (J)
2/17/2016	0.17 (J)						0.07 (J)	
4/12/2016	0.203 (J)							
4/13/2016							0.081 (J)	0.088 (J)
5/31/2016	0.212 (J)						0.103 (J)	
6/1/2016								0.109 (J)
8/17/2016	0.19 (J)						0.078 (J)	0.089 (J)
10/11/2016	0.15 (J)							
10/12/2016							0.041 (J)	0.048 (J)
3/14/2017	0.18						0.07 (J)	
3/15/2017								0.08 (J)
5/10/2017	0.19						0.09 (J)	0.1
6/28/2017	0.18						0.08 (J)	0.09 (J)
8/29/2017	0.22						0.09 (J)	0.11
2/27/2018	0.22						0.08 (J)	0.11
6/5/2018	0.23						0.08 (J)	0.11
11/7/2018	0.22						0.08 (J)	0.11
3/26/2019	0.253						0.106	0.162
9/10/2019	0.227						0.086 (J)	0.113
4/21/2020	0.218						0.0951 (J)	0.114
8/19/2020	0.223						0.103	0.116
3/9/2021	0.17						0.0949 (J)	0.109
8/17/2021		<0.125	0.142	0.0716 (J)	<0.125	0.225		
8/24/2021	0.161						0.1	0.141
3/23/2022		<0.125	0.0871 (J)	<0.125	<0.125	0.251		
3/29/2022	0.193						0.104 (J)	0.108 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.16 (J)	
4/13/2016	0.15 (J)	
6/1/2016	0.19 (J)	
8/17/2016	0.171 (J)	
10/12/2016	0.137 (J)	
3/15/2017	0.15	
5/10/2017	0.17	
6/28/2017	0.16	
8/29/2017	0.19	
2/27/2018	0.19	
6/5/2018	0.19	
11/7/2018	0.2	
3/26/2019	0.223	
9/10/2019	0.178	0.0831 (J)
4/20/2020		0.132
4/21/2020	0.181	
8/17/2020		0.0959 (J)
8/18/2020	0.177	
3/9/2021	0.147	
3/10/2021		0.118
8/17/2021		0.117
8/24/2021	0.164	
3/29/2022	<0.125	
4/5/2022		0.12105 (D)

Time Series

Constituent: Lead (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.0002		<0.0002	<0.0002	<0.0002		
2/17/2016	<0.0002		<0.0002				<0.0002	<0.0002
4/12/2016					<0.0002	<0.0002	<0.0002	
4/13/2016	<0.0002	<0.0002	<0.0002	<0.0002				<0.0002
5/31/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
6/1/2016	<0.0002							<0.0002
8/15/2016	<0.0002							<0.0002
8/16/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
8/17/2016						<0.0002		
10/11/2016	<0.0002						<0.0002	
10/12/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
1/24/2017	<0.0002						<0.0002	<0.0002
1/25/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
5/9/2017	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
5/10/2017		<0.0002					<0.0002	<0.0002
6/27/2017	<0.0002						<0.0002	<0.0002
6/28/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/27/2018	<0.0002	<0.0002	<0.0002			<0.0002		
2/28/2018				<0.0002	<0.0002		<0.0002	<0.0002
6/4/2018	<0.0002							
6/5/2018		<0.0002	<0.0002				<0.0002	<0.0002
6/6/2018				<0.0002	<0.0002	<0.0002		
11/5/2018			<0.0002	<0.0002	<0.0002			
11/6/2018	<0.0002						<0.0002	<0.0002
11/7/2018		<0.0002				<0.0002		
3/26/2019				<0.0002	<0.0002		<0.0002	<0.0002
3/27/2019	<0.0002	<0.0002	<0.0002			<0.0002		
9/10/2019	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
9/11/2019					<0.0002			
4/20/2020					<0.0002		<0.0002	<0.0002
4/21/2020	<0.0002			<0.0002		<0.0002		
4/22/2020		<0.0002	<0.0002					
8/11/2020						<0.0002		<0.0002
8/12/2020							<0.0002	
8/17/2020	<0.0002							
8/18/2020		<0.0002	<0.0002	<0.0002	<0.0002			
3/9/2021						<0.0002		0.000109 (J)
3/10/2021			<0.0002	<0.0002			<0.0002	
3/15/2021		<0.0002			<0.0002			
3/16/2021	<0.0002							
8/17/2021	<0.0002							0.00011 (J)
8/24/2021		<0.0002						
8/25/2021			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/29/2022				<0.0002			<0.0002	
3/30/2022			<0.0002					
4/4/2022	<0.0002	<0.0002				<0.0002		
4/6/2022					<0.0002			9E-05 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.0002				
2/17/2016	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
4/12/2016		<0.0002			<0.0002	<0.0002	<0.0002	
4/13/2016	<0.0002		<0.0002	<0.0002				
6/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/15/2016	<0.0002	<0.0002	0.00104 (J)					
8/16/2016				<0.0002	<0.0002	<0.0002		
8/17/2016							<0.0002	<0.0002
9/20/2016								<0.0002
10/11/2016			<0.0002		<0.0002	<0.0002	<0.0002	
10/12/2016	<0.0002	<0.0002		<0.0002				<0.0002
11/15/2016								<0.0002
1/4/2017								<0.0002
1/23/2017								<0.0002
1/24/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
1/25/2017				<0.0002				
5/9/2017			<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
5/10/2017	<0.0002	<0.0002				<0.0002		
6/27/2017	<0.0002	<0.0002			<0.0002			<0.0002
6/28/2017			<0.0002	<0.0002		<0.0002	<0.0002	
2/27/2018			<0.0002		<0.0002	<0.0002		<0.0002
2/28/2018	<0.0002	<0.0002		<0.0002			<0.0002	
6/4/2018			<0.0002					
6/5/2018	<0.0002	<0.0002			<0.0002	<0.0002		<0.0002
6/6/2018				<0.0002			<0.0002	
11/5/2018				<0.0002				
11/6/2018	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002
11/7/2018					<0.0002	<0.0002		
3/26/2019	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002
3/27/2019			<0.0002				<0.0002	
9/9/2019	<0.0002	<0.0002	<0.0002					
9/10/2019				<0.0002	<0.0002	<0.0002	<0.0002	
9/11/2019								<0.0002
4/21/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
4/22/2020						<0.0002	<0.0002	
8/11/2020	<0.0002						<0.0002	
8/12/2020		<0.0002			<0.0002	<0.0002		
8/17/2020			<0.0002					
8/18/2020				<0.0002				<0.0002
3/9/2021	<0.0002	<0.0002						
3/10/2021				<0.0002	<0.0002	<0.0002	8.84E-05 (J)	
3/15/2021								6.99E-05 (J)
3/16/2021			0.000736					
8/17/2021	<0.0002	<0.0002	0.00059					
8/18/2021								7E-05 (J)
8/24/2021					<0.0002	<0.0002	<0.0002	
8/25/2021				<0.0002				
3/28/2022			0.00066		<0.0002			
3/29/2022							<0.0002	
3/30/2022				<0.0002				
4/4/2022	<0.0002					<0.0002		<0.0002
4/6/2022		<0.0002						

Time Series

Constituent: Lead (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.0002				
4/12/2016				<0.0002				
6/1/2016				<0.0002				
8/15/2016				<0.0002				
8/16/2016			<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002						
9/19/2016						<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002		<0.0002			
10/11/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/12/2016	<0.0002	<0.0002						
11/14/2016						<0.0002	<0.0002	<0.0002
11/15/2016	<0.0002	<0.0002	<0.0002		<0.0002			
1/3/2017						<0.0002	<0.0002	<0.0002
1/4/2017	<0.0002	<0.0002	<0.0002		<0.0002			
1/23/2017	<0.0002				<0.0002			
1/24/2017		<0.0002		<0.0002		<0.0002	<0.0002	
1/25/2017								<0.0002
1/26/2017			<0.0002					
5/9/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
5/10/2017						<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
6/28/2017				<0.0002				
2/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/4/2018				<0.0002				
6/5/2018	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
11/5/2018							<0.0002	
11/6/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/26/2019	<0.0002	<0.0002	<0.0002		<0.0002			
3/27/2019				<0.0002		<0.0002	<0.0002	<0.0002
9/9/2019				<0.0002				
9/11/2019	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
4/20/2020				<0.0002				
4/21/2020	<0.0002	<0.0002	<0.0002		<0.0002			
4/22/2020						<0.0002	<0.0002	<0.0002
8/11/2020						<0.0002		
8/12/2020							<0.0002	<0.0002
8/17/2020				<0.0002				
8/18/2020	<0.0002	<0.0002	<0.0002		<0.0002			
3/15/2021	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	0.000121 (J)	<0.0002
3/16/2021				<0.0002				
8/17/2021				<0.0002				
8/18/2021	<0.0002	<0.0002	<0.0002		<0.0002			
8/23/2021						<0.0002	0.00015 (J)	<0.0002
3/28/2022	<0.0002	<0.0002	<0.0002		<0.0002	0.00015 (J)	<0.0002	0.00015 (J)
4/5/2022				<0.0002				

Time Series

Constituent: Lead (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.0002			
1/15/2019				<0.0002		<0.0002	<0.0002	<0.0002
1/16/2019		<0.0002						
1/17/2019	<0.0002							
1/30/2019			<0.0002					
9/10/2019	<0.0002						<0.0002	
9/11/2019		<0.0002	<0.0002		<0.0002	<0.0002		<0.0002
4/20/2020							<0.0002	
4/21/2020		<0.0002						
4/22/2020	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002		
4/29/2020								<0.0002
8/11/2020			<0.0002			<0.0002		
8/12/2020	<0.0002						<0.0002	
8/18/2020		<0.0002						<0.0002
8/19/2020				<0.0002	<0.0002			
3/9/2021			0.000447			<0.0002		
3/10/2021					<0.0002		<0.0002	
3/15/2021	<0.0002							<0.0002
3/16/2021		<0.0002		<0.0002				
8/23/2021	<0.0002							
8/24/2021		<0.0002	0.00031	<0.0002	<0.0002	<0.0002		
8/25/2021							<0.0002	<0.0002
3/28/2022	<0.0002							
3/29/2022				<0.0002				
3/30/2022			0.00037		<0.0002		<0.0002	
4/6/2022		<0.0002				<0.0002		8E-05 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.0002							
1/16/2019		<0.0002	<0.0002					
9/11/2019	<0.0002	<0.0002	<0.0002					
4/20/2020			<0.0002	<0.0002				
4/21/2020	<0.0002	<0.0002					<0.0002	<0.0002
5/28/2020						<0.0002		
7/6/2020					<0.0002			
8/11/2020					<0.0002	<0.0002		
8/12/2020			<0.0002					
8/17/2020				<0.0002			<0.0002	
8/19/2020	<0.0002	<0.0002						<0.0002
3/8/2021					<0.0002	<0.0002		
3/9/2021	<0.0002	<0.0002						
3/10/2021			<0.0002	<0.0002			<0.0002	<0.0002
8/17/2021					<0.0002	<0.0002		
8/18/2021	<0.0002	<0.0002		<0.0002			<0.0002	<0.0002
8/23/2021			<0.0002					
3/23/2022					<0.0002	<0.0002		
3/29/2022				<0.0002				
3/30/2022							<0.0002	<0.0002
4/4/2022			<0.0002					
4/6/2022	<0.0002	<0.0002						

Time Series

Constituent: Lead (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.0002							
4/12/2016	<0.0002							
5/31/2016	<0.0002							
8/17/2016	<0.0002							
10/11/2016	<0.0002							
1/24/2017	<0.0002							
5/9/2017	<0.0002							
6/28/2017	<0.0002							
2/27/2018	<0.0002							
6/5/2018	<0.0002							
11/6/2018	<0.0002							
3/27/2019	<0.0002							
9/11/2019	<0.0002							
4/20/2020				<0.0002	<0.0002		<0.0002	
4/21/2020	<0.0002							
5/28/2020		<0.0002				<0.0002		0.0026 (J)
7/6/2020			<0.0002					
8/11/2020		<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
8/12/2020	<0.0002				<0.0002		<0.0002	
3/8/2021		0.000122 (J)	<0.0002					
3/9/2021						8.75E-05 (J)		<0.0002
3/10/2021				<0.0002	9.49E-05 (J)		<0.0002	
3/16/2021	<0.0002							
8/16/2021			<0.0002					
8/17/2021		0.00029				<0.0002		0.00017 (J)
8/23/2021	<0.0002			<0.0002	<0.0002		<0.0002	
3/23/2022		0.00013 (J)	<0.0002			0.0001 (J)		<0.0002
4/4/2022	<0.0002							
4/5/2022					<0.0002		0.00031	
4/6/2022				8E-05 (J)				

Time Series

Constituent: Lead (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.0002
2/17/2016	<0.0002						<0.0002	
4/12/2016	<0.0002							
4/13/2016							<0.0002	<0.0002
5/31/2016	<0.0002						<0.0002	
6/1/2016								<0.0002
8/17/2016	<0.0002						<0.0002	<0.0002
10/11/2016	<0.0002							
10/12/2016							<0.0002	<0.0002
1/24/2017	<0.0002							
1/25/2017							<0.0002	<0.0002
5/10/2017	<0.0002						<0.0002	<0.0002
6/28/2017	<0.0002						<0.0002	<0.0002
2/27/2018	<0.0002						<0.0002	<0.0002
6/5/2018	<0.0002						<0.0002	<0.0002
11/7/2018	<0.0002						<0.0002	<0.0002
3/26/2019	<0.0002						<0.0002	<0.0002
9/10/2019	<0.0002						<0.0002	<0.0002
4/21/2020	<0.0002						<0.0002	<0.0002
8/19/2020	<0.0002						<0.0002	<0.0002
3/9/2021	<0.0002						<0.0002	<0.0002
8/17/2021		<0.0002	<0.0002	0.00011 (J)	<0.0002	0.00022		
8/24/2021	<0.0002						<0.0002	<0.0002
3/23/2022		<0.0002	<0.0002	0.00016 (J)	<0.0002	0.00016 (J)		
3/29/2022	<0.0002						<0.0002	<0.0002

Time Series

Constituent: Lead (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.0002	
4/13/2016	<0.0002	
6/1/2016	<0.0002	
8/17/2016	<0.0002	
10/12/2016	<0.0002	
1/25/2017	<0.0002	
5/10/2017	<0.0002	
6/28/2017	<0.0002	
2/27/2018	<0.0002	
6/5/2018	<0.0002	
11/7/2018	<0.0002	
3/26/2019	<0.0002	
9/10/2019	<0.0002	<0.0002
4/20/2020		<0.0002
4/21/2020	<0.0002	
8/17/2020		<0.0002
8/18/2020	<0.0002	
3/9/2021	7.84E-05 (J)	
3/10/2021		<0.0002
8/17/2021		0.00022
8/24/2021	<0.0002	
3/29/2022	<0.0002	
4/5/2022		0.0002 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.115		0.502	0.51	0.632		
2/17/2016	<0.02		0.0777				0.806	0.626
4/12/2016					0.508	0.615	0.719	
4/13/2016	<0.02	0.135	0.073	0.544				0.594
5/31/2016		0.127	0.0721	0.47	0.454	0.613	0.735	
6/1/2016	<0.02							0.556
8/15/2016	<0.02							0.557
8/16/2016		0.124	0.075	0.282	0.371		0.699	
8/17/2016						0.444		
10/11/2016	0.0194 (J)						0.727	
10/12/2016		0.101	0.0703	0.217	0.282	0.387		0.589
1/24/2017	<0.02						0.689	0.522
1/25/2017		0.109	0.0683	0.108	0.0904	0.516		
5/9/2017	<0.02		0.0646	0.132	0.144	0.526		
5/10/2017		0.101					0.603	0.552
6/27/2017	<0.02						0.558	0.523
6/28/2017		0.0954	0.109	0.126	0.146	0.626		
2/27/2018	<0.02	0.111	0.11			0.562		
2/28/2018				0.0786	0.0738		0.571	0.544
6/4/2018	<0.02							
6/5/2018		0.104	0.102				0.492	0.49
6/6/2018				0.067	0.148	1.06		
11/5/2018			0.0641	0.0912	0.0914			
11/6/2018	<0.02						0.547	0.54
11/7/2018		0.11				0.604		
3/26/2019				0.0532	0.123		0.57	0.558
3/27/2019	<0.02	0.115	0.119			1.11		
9/10/2019	<0.02	0.112	0.124	0.0598		0.765	0.6	0.581
9/11/2019					0.246			
4/20/2020					0.201		0.604	0.62
4/21/2020	<0.02			0.166		0.672		
4/22/2020		0.123	0.126					
8/11/2020						0.712		0.599
8/12/2020							0.594	
8/17/2020	<0.02							
8/18/2020		0.124	0.109	0.0892	0.42			
3/9/2021						0.791		0.692
3/10/2021			0.0826	0.125			0.63	
3/15/2021		0.155			0.308			
3/16/2021	<0.02							
8/17/2021	<0.02							0.647
8/24/2021		0.198						
8/25/2021			0.132	0.117	0.5	0.985	0.622	
3/29/2022				0.13			0.534	
3/30/2022			0.0615					
4/4/2022	<0.02	0.329				0.607		
4/6/2022					0.584			0.638

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.513				
2/17/2016	0.612	0.67	<0.02		<0.02	<0.02	<0.02	
4/12/2016		0.655			<0.02	<0.02	<0.02	
4/13/2016	0.694		<0.02	0.532				
6/1/2016	0.675	0.666	<0.02	0.513	<0.02	<0.02	<0.02	
8/15/2016	0.571	0.558	<0.02					
8/16/2016				0.301	<0.02	<0.02		
8/17/2016							<0.02	<0.02
9/20/2016								<0.02
10/11/2016			<0.02		<0.02	<0.02	<0.02	
10/12/2016	0.622	0.56		0.22				<0.02
11/15/2016								<0.02
1/4/2017								<0.02
1/23/2017								<0.02
1/24/2017	0.752	0.374	<0.02		<0.02	<0.02	<0.02	
1/25/2017				0.107				
5/9/2017			<0.02	0.113	<0.02		<0.02	<0.02
5/10/2017	0.622	0.443				<0.02		
6/27/2017	0.597	0.451			<0.02			<0.02
6/28/2017			<0.02	0.0962		<0.02	<0.02	
2/27/2018			<0.02		<0.02	<0.02		<0.02
2/28/2018	0.73	0.343		0.0594			<0.02	
6/4/2018			<0.02					
6/5/2018	0.531	0.353			<0.02	<0.02		<0.02
6/6/2018				0.0469 (J)			<0.02	
11/5/2018				0.0902				
11/6/2018	0.583	0.369	<0.02				<0.02	<0.02
11/7/2018					<0.02	<0.02		
3/26/2019	0.595	0.378		0.0531	<0.02	<0.02		<0.02
3/27/2019			<0.02				<0.02	
9/9/2019	0.571	0.408	<0.02					
9/10/2019				0.0862	<0.02	<0.02	<0.02	
9/11/2019								<0.02
4/21/2020	0.629	0.386	<0.02	0.0782	<0.02			<0.02
4/22/2020						<0.02	<0.02	
8/11/2020	0.552						<0.02	
8/12/2020		0.326			<0.02	<0.02		
8/17/2020			<0.02					
8/18/2020				0.0718				<0.02
3/9/2021	0.864	0.364						
3/10/2021				0.146	<0.02	<0.02	<0.02	
3/15/2021								<0.02
3/16/2021			<0.02					
8/17/2021	0.585	0.335	<0.02					
8/18/2021								<0.02
8/24/2021					<0.02	<0.02	<0.02	
8/25/2021				0.0872				
3/28/2022			<0.02		<0.02			
3/29/2022							<0.02	
3/30/2022				0.082				
4/4/2022	0.647					<0.02		<0.02
4/6/2022		0.312						

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.02				
4/12/2016				<0.02				
6/1/2016				<0.02				
8/15/2016				<0.02				
8/16/2016			<0.02		<0.02	<0.02	<0.02	<0.02
8/17/2016	<0.02	<0.02						
9/19/2016						<0.02	<0.02	<0.02
9/20/2016	<0.02	<0.02	<0.02		<0.02			
10/11/2016			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/12/2016	<0.02	<0.02						
11/14/2016						<0.02	<0.02	<0.02
11/15/2016	<0.02	<0.02	<0.02		<0.02			
1/3/2017						<0.02	<0.02	<0.02
1/4/2017	<0.02	<0.02	<0.02		<0.02			
1/23/2017	<0.02				<0.02			
1/24/2017		<0.02		<0.02		<0.02	<0.02	
1/25/2017								<0.02
1/26/2017			<0.02					
5/9/2017	<0.02	<0.02	<0.02	<0.02	<0.02			
5/10/2017						<0.02	<0.02	<0.02
6/27/2017	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
6/28/2017				<0.02				
2/27/2018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
6/4/2018				<0.02				
6/5/2018	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
11/5/2018							<0.02	
11/6/2018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02
3/26/2019	<0.02	<0.02	<0.02		<0.02			
3/27/2019				<0.02		<0.02	<0.02	<0.02
9/9/2019				<0.02				
9/11/2019	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
4/20/2020				<0.02				
4/21/2020	<0.02	<0.02	<0.02		<0.02			
4/22/2020						<0.02	<0.02	<0.02
8/11/2020						<0.02		
8/12/2020							<0.02	<0.02
8/17/2020				<0.02				
8/18/2020	<0.02	<0.02	<0.02		<0.02			
3/15/2021	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
3/16/2021				<0.02				
8/17/2021				<0.02				
8/18/2021	<0.02	<0.02	<0.02		<0.02			
8/23/2021						<0.02	<0.02	<0.02
3/28/2022	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
4/5/2022				<0.02				

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.02			
1/15/2019				0.0141 (J)		0.399	0.407	0.0411
1/16/2019		<0.02						
1/17/2019	<0.02							
1/30/2019			<0.02					
9/10/2019	<0.02						0.545	
9/11/2019		<0.02	<0.02		<0.02	0.45		0.0396
4/20/2020							0.628	
4/21/2020		<0.02						
4/22/2020	<0.02		<0.02	0.0134 (J)	<0.02	0.41		
4/29/2020								0.041
8/11/2020			<0.02			0.47		
8/12/2020	<0.02						0.669	
8/18/2020		<0.02						0.039
8/19/2020				0.0108 (J)	<0.02			
3/9/2021			<0.02			0.474		
3/10/2021					<0.02		0.772	
3/15/2021	<0.02							0.0459
3/16/2021		<0.02		0.0107 (J)				
8/23/2021	<0.02							
8/24/2021		<0.02	<0.02	0.0112 (J)	<0.02	0.47		
8/25/2021							0.734	0.0545
3/28/2022	<0.02							
3/29/2022				0.00867 (J)				
3/30/2022			<0.02		<0.02		0.707	
4/6/2022		<0.02				0.336		0.0809

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.0146 (J)							
1/16/2019		0.178	<0.02					
9/11/2019	0.0169 (J)	0.254	<0.02					
4/20/2020			<0.02	0.148				
4/21/2020	0.0174 (J)	0.376					0.0924	0.0733
5/28/2020						0.0527		
7/6/2020					0.089			
8/11/2020					0.097	0.0457		
8/12/2020			<0.02					
8/17/2020				0.212			0.108	
8/19/2020	0.0168 (J)	0.336						0.0511
3/8/2021					0.0991	0.0456		
3/9/2021	0.0172 (J)	0.448						
3/10/2021			<0.02	0.194			0.102	0.0681
8/17/2021					0.112	0.0453		
8/18/2021	0.0304	0.344		0.367			0.0821	0.0538
8/23/2021			<0.02					
3/23/2022					0.122	0.0531		
3/29/2022				0.411				
3/30/2022							0.0704	0.0726
4/4/2022			<0.02					
4/6/2022	0.0231	0.261						

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.0883							
4/12/2016	0.0862							
5/31/2016	0.085							
8/17/2016	0.093							
10/11/2016	0.0928							
1/24/2017	0.094							
5/9/2017	0.0865							
6/28/2017	0.0879							
2/27/2018	0.113							
6/5/2018	0.101							
11/6/2018	0.116							
3/27/2019	0.0988							
9/11/2019	0.117							
4/20/2020				0.0107 (J)	0.101		<0.02	
4/21/2020	0.13							
5/28/2020		0.0979				<0.02		<0.02
7/6/2020			<0.02					
8/11/2020		0.0825	<0.02	0.0125 (J)		<0.02		<0.02
8/12/2020	0.132				0.105		<0.02	
3/8/2021		0.119	<0.02					
3/9/2021						<0.02		<0.02
3/10/2021				<0.02	0.0906		<0.02	
3/16/2021	0.149							
8/16/2021			<0.02					
8/17/2021		0.106				<0.02		<0.02
8/23/2021	0.116			<0.02	0.0805		<0.02	
3/23/2022		0.11	<0.02			<0.02		<0.02
4/4/2022	0.102							
4/5/2022					0.0584		<0.02	
4/6/2022				<0.02				

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.02
2/17/2016	<0.02						<0.02	
4/12/2016	<0.02							
4/13/2016							<0.02	<0.02
5/31/2016	<0.02						<0.02	
6/1/2016								0.0101 (J)
8/17/2016	<0.02						<0.02	0.0143 (J)
10/11/2016	<0.02							
10/12/2016							<0.02	0.0166 (J)
1/24/2017	0.0591							
1/25/2017							<0.02	0.0272 (J)
5/10/2017	0.0519						<0.02	0.0436 (J)
6/28/2017	0.0403 (J)						<0.02	0.0401 (J)
2/27/2018	0.0201 (J)						<0.02	0.0309 (J)
6/5/2018	0.0218 (J)						<0.02	0.0286 (J)
11/7/2018	0.0141 (J)						<0.02	0.0371
3/26/2019	0.0192 (J)						<0.02	0.0537
9/10/2019	0.0267						<0.02	0.0928
4/21/2020	0.0518						<0.02	0.0582
8/19/2020	0.0197 (J)						<0.02	0.0511
3/9/2021	0.013 (J)						<0.02	0.0249
8/17/2021		<0.02	<0.02	<0.02	<0.02	0.142		
8/24/2021	0.00951 (J)						<0.02	0.0155 (J)
3/23/2022		<0.02	<0.02	<0.02	<0.02	0.159		
3/29/2022	<0.02						<0.02	0.00828 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.0359 (J)	
4/13/2016	0.0276 (J)	
6/1/2016	0.0296 (J)	
8/17/2016	0.0398 (J)	
10/12/2016	0.0433 (J)	
1/25/2017	0.0366 (J)	
5/10/2017	0.039 (J)	
6/28/2017	0.0345 (J)	
2/27/2018	0.0349 (J)	
6/5/2018	0.0338 (J)	
11/7/2018	0.0616	
3/26/2019	0.0931	
9/10/2019	0.128	<0.02
4/20/2020		<0.02
4/21/2020	0.0693	
8/17/2020		<0.02
8/18/2020	0.0591	
3/9/2021	0.0417	
3/10/2021		<0.02
8/17/2021		<0.02
8/24/2021	0.0383	
3/29/2022	0.0126 (J)	
4/5/2022		<0.02

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.0005		<0.0005	<0.0005	<0.0005		
2/17/2016	<0.0005		<0.0005				<0.0005	<0.0005
4/12/2016					<0.0005	<0.0005	<0.0005	
4/13/2016	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
5/31/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6/1/2016	<0.0005							<0.0005
8/15/2016	<0.0005							<0.0005
8/16/2016		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
8/17/2016						<0.0005		
10/11/2016	<0.0005						<0.0005	
10/12/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
1/24/2017	<0.0005						<0.0005	<0.0005
1/25/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
5/9/2017	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
5/10/2017		<0.0005					<0.0005	<0.0005
6/27/2017	<0.0005						<0.0005	<0.0005
6/28/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
2/27/2018	<0.0005	<0.0005	<0.0005			<0.0005		
2/28/2018				<0.0005	<0.0005		<0.0005	<0.0005
6/4/2018	<0.0005							
6/5/2018		<0.0005	<0.0005				<0.0005	<0.0005
6/6/2018				<0.0005	<0.0005	<0.0005		
11/5/2018			<0.0005	<0.0005	<0.0005			
11/6/2018	<0.0005						<0.0005	<0.0005
11/7/2018		<0.0005				<0.0005		
3/26/2019				<0.0005	<0.0005		<0.0005	<0.0005
3/27/2019	<0.0005	<0.0005	<0.0005			<0.0005		
9/10/2019	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
9/11/2019					<0.0005			
4/20/2020					<0.0005		<0.0005	<0.0005
4/21/2020	<0.0005			<0.0005		<0.0005		
4/22/2020		<0.0005	<0.0005					
8/11/2020						<0.0005		<0.0005
8/12/2020							<0.0005	
8/17/2020	<0.0005							
8/18/2020		<0.0005	<0.0005	<0.0005	<0.0005			
3/9/2021						<0.0005		<0.0005
3/10/2021			<0.0005	<0.0005			<0.0005	
3/15/2021		<0.0005			<0.0005			
3/16/2021	<0.0005							
8/17/2021	<0.0005							<0.0005
8/24/2021		<0.0005						
8/25/2021			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/29/2022				<0.0005			<0.0005	
3/30/2022			<0.0005					
4/4/2022	<0.0005	<0.0005				<0.0005		
4/6/2022					<0.0005			<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.0005				
2/17/2016	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
4/12/2016		<0.0005			<0.0005	<0.0005	<0.0005	
4/13/2016	<0.0005		<0.0005	<0.0005				
6/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/15/2016	<0.0005	<0.0005	<0.0005					
8/16/2016				<0.0005	<0.0005	<0.0005		
8/17/2016							<0.0005	<0.0005
9/20/2016								<0.0005
10/11/2016			<0.0005		<0.0005	<0.0005	<0.0005	
10/12/2016	<0.0005	<0.0005		<0.0005				<0.0005
11/15/2016								<0.0005
1/4/2017								<0.0005
1/23/2017								<0.0005
1/24/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
1/25/2017				<0.0005				
5/9/2017			<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
5/10/2017	<0.0005	<0.0005				<0.0005		
6/27/2017	<0.0005	<0.0005			<0.0005			<0.0005
6/28/2017			<0.0005	<0.0005		<0.0005	<0.0005	
2/27/2018			<0.0005		<0.0005	<0.0005		<0.0005
2/28/2018	<0.0005	<0.0005		<0.0005			<0.0005	
6/4/2018			<0.0005					
6/5/2018	<0.0005	<0.0005			<0.0005	<0.0005		<0.0005
6/6/2018				<0.0005			<0.0005	
11/5/2018				<0.0005				
11/6/2018	<0.0005	<0.0005	<0.0005				<0.0005	<0.0005
11/7/2018					<0.0005	<0.0005		
3/26/2019	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
3/27/2019			<0.0005				<0.0005	
9/9/2019	<0.0005	<0.0005	<0.0005					
9/10/2019				<0.0005	<0.0005	<0.0005	<0.0005	
9/11/2019								<0.0005
4/21/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
4/22/2020						<0.0005	<0.0005	
8/11/2020	<0.0005						<0.0005	
8/12/2020		<0.0005			<0.0005	<0.0005		
8/17/2020			<0.0005					
8/18/2020				<0.0005				<0.0005
3/9/2021	<0.0005	<0.0005						
3/10/2021				<0.0005	<0.0005	<0.0005	<0.0005	
3/15/2021								<0.0005
3/16/2021			<0.0005					
8/17/2021	<0.0005	<0.0005	<0.0005					
8/18/2021								<0.0005
8/24/2021					<0.0005	<0.0005	<0.0005	
8/25/2021				<0.0005				
3/28/2022			<0.0005		<0.0005			
3/29/2022							<0.0005	
3/30/2022				<0.0005				
4/4/2022	<0.0005					<0.0005		<0.0005
4/6/2022		<0.0005						

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.0005				
4/12/2016				<0.0005				
6/1/2016				<0.0005				
8/15/2016				<0.0005				
8/16/2016			<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
8/17/2016	<0.0005	<0.0005						
9/19/2016						<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	<0.0005	<0.0005		<0.0005			
10/11/2016			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/12/2016	<0.0005	<0.0005						
11/14/2016						<0.0005	<0.0005	<0.0005
11/15/2016	<0.0005	<0.0005	<0.0005		<0.0005			
1/3/2017						<0.0005	<0.0005	<0.0005
1/4/2017	<0.0005	<0.0005	<0.0005		<0.0005			
1/23/2017	<0.0005				<0.0005			
1/24/2017		<0.0005		<0.0005		<0.0005	<0.0005	
1/25/2017								<0.0005
1/26/2017			<0.0005					
5/9/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
5/10/2017						<0.0005	<0.0005	<0.0005
6/27/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
6/28/2017				<0.0005				
2/27/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/4/2018				<0.0005				
6/5/2018	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
11/5/2018							<0.0005	
11/6/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/26/2019	<0.0005	<0.0005	<0.0005		<0.0005			
3/27/2019				<0.0005		<0.0005	<0.0005	<0.0005
9/9/2019				<0.0005				
9/11/2019	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
4/20/2020				<0.0005				
4/21/2020	<0.0005	<0.0005	<0.0005		<0.0005			
4/22/2020						<0.0005	<0.0005	<0.0005
8/11/2020						<0.0005		
8/12/2020							<0.0005	<0.0005
8/17/2020				<0.0005				
8/18/2020	<0.0005	<0.0005	<0.0005		<0.0005			
3/15/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
3/16/2021				<0.0005				
8/17/2021				<0.0005				
8/18/2021	<0.0005	<0.0005	<0.0005		<0.0005			
8/23/2021						<0.0005	<0.0005	<0.0005
3/28/2022	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
4/5/2022				<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.0005			
1/15/2019				<0.0005		<0.0005	<0.0005	<0.0005
1/16/2019		<0.0005						
1/17/2019	<0.0005							
1/30/2019			<0.0005					
9/10/2019	<0.0005						<0.0005	
9/11/2019		<0.0005	<0.0005		<0.0005	<0.0005		<0.0005
4/20/2020							<0.0005	
4/21/2020		<0.0005						
4/22/2020	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
4/29/2020								<0.0005
8/11/2020			<0.0005			<0.0005		
8/12/2020	<0.0005						<0.0005	
8/18/2020		<0.0005						<0.0005
8/19/2020				<0.0005	<0.0005			
3/9/2021			<0.0005			<0.0005		
3/10/2021					<0.0005		<0.0005	
3/15/2021	<0.0005							<0.0005
3/16/2021		<0.0005		<0.0005				
8/23/2021	<0.0005							
8/24/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2021							<0.0005	<0.0005
3/28/2022	<0.0005							
3/29/2022				<0.0005				
3/30/2022			<0.0005		<0.0005		<0.0005	
4/6/2022		<0.0005				<0.0005		<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.0005							
1/16/2019		<0.0005	<0.0005					
9/11/2019	<0.0005	<0.0005	<0.0005					
4/20/2020			<0.0005	<0.0005				
4/21/2020	<0.0005	<0.0005					<0.0005	<0.0005
5/28/2020						<0.0005		
7/6/2020					<0.0005			
8/11/2020					<0.0005	<0.0005		
8/12/2020			<0.0005					
8/17/2020				<0.0005			<0.0005	
8/19/2020	<0.0005	<0.0005						<0.0005
3/8/2021					<0.0005	<0.0005		
3/9/2021	<0.0005	<0.0005						
3/10/2021			<0.0005	<0.0005			<0.0005	<0.0005
8/17/2021					<0.0005	<0.0005		
8/18/2021	<0.0005	<0.0005		<0.0005			<0.0005	<0.0005
8/23/2021			<0.0005					
3/23/2022					<0.0005	<0.0005		
3/29/2022				<0.0005				
3/30/2022							<0.0005	<0.0005
4/4/2022			<0.0005					
4/6/2022	<0.0005	<0.0005						

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.0005							
4/12/2016	<0.0005							
5/31/2016	<0.0005							
8/17/2016	<0.0005							
10/11/2016	<0.0005							
1/24/2017	<0.0005							
5/9/2017	<0.0005							
6/28/2017	<0.0005							
2/27/2018	<0.0005							
6/5/2018	<0.0005							
11/6/2018	<0.0005							
3/27/2019	<0.0005							
9/11/2019	<0.0005							
4/20/2020				<0.0005	<0.0005		<0.0005	
4/21/2020	<0.0005							
5/28/2020		<0.0005				<0.0005		<0.0005
7/6/2020			<0.0005					
8/11/2020		<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
8/12/2020	<0.0005				<0.0005		<0.0005	
3/8/2021		<0.0005	<0.0005					
3/9/2021						<0.0005		<0.0005
3/10/2021				<0.0005	<0.0005		<0.0005	
3/16/2021	<0.0005							
8/16/2021			<0.0005					
8/17/2021		<0.0005				<0.0005		<0.0005
8/23/2021	<0.0005			<0.0005	<0.0005		<0.0005	
3/23/2022		<0.0005	<0.0005			<0.0005		<0.0005
4/4/2022	<0.0005							
4/5/2022					<0.0005		<0.0005	
4/6/2022				<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.0005
2/17/2016	<0.0005						<0.0005	
4/12/2016	<0.0005							
4/13/2016							<0.0005	<0.0005
5/31/2016	<0.0005						<0.0005	
6/1/2016								<0.0005
8/17/2016	<0.0005						<0.0005	<0.0005
10/11/2016	<0.0005							
10/12/2016							<0.0005	<0.0005
1/24/2017	<0.0005							
1/25/2017							<0.0005	<0.0005
5/10/2017	<0.0005						<0.0005	<0.0005
6/28/2017	<0.0005						<0.0005	<0.0005
2/27/2018	<0.0005						<0.0005	<0.0005
6/5/2018	<0.0005						<0.0005	<0.0005
11/7/2018	<0.0005						<0.0005	<0.0005
3/26/2019	<0.0005						<0.0005	<0.0005
9/10/2019	<0.0005						<0.0005	<0.0005
4/21/2020	<0.0005						<0.0005	<0.0005
8/19/2020	<0.0005						<0.0005	<0.0005
3/9/2021	<0.0005						<0.0005	<0.0005
8/17/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/24/2021	<0.0005						<0.0005	<0.0005
3/23/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
3/29/2022	<0.0005						<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.0005	
4/13/2016	<0.0005	
6/1/2016	<0.0005	
8/17/2016	<0.0005	
10/12/2016	<0.0005	
1/25/2017	<0.0005	
5/10/2017	<0.0005	
6/28/2017	<0.0005	
2/27/2018	<0.0005	
6/5/2018	<0.0005	
11/7/2018	<0.0005	
3/26/2019	<0.0005	
9/10/2019	<0.0005	<0.0005
4/20/2020		<0.0005
4/21/2020	<0.0005	
8/17/2020		<0.0005
8/18/2020	<0.0005	
3/9/2021	<0.0005	
3/10/2021		<0.0005
8/17/2021		<0.0005
8/24/2021	<0.0005	
3/29/2022	<0.0005	
4/5/2022		<0.0005

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.0101		0.107	0.0769	0.00839 (J)		
2/17/2016	<0.0002		0.00651 (J)				<0.0002	<0.0002
4/12/2016					0.0442	0.00918 (J)	<0.0002	
4/13/2016	<0.0002	0.0127	0.00646 (J)	0.101				<0.0002
5/31/2016		0.0106	0.00546 (J)	0.0915	0.0481	0.00877 (J)	<0.0002	
6/1/2016	<0.0002							<0.0002
8/15/2016	<0.0002							<0.0002
8/16/2016		0.00991 (J)	0.00582 (J)	0.127	0.0956		<0.0002	
8/17/2016						0.0236		
10/11/2016	<0.0002						<0.0002	
10/12/2016		0.00919 (J)	0.00589 (J)	0.11	0.114	0.0289		<0.0002
1/24/2017	<0.0002						<0.0002	<0.0002
1/25/2017		0.0101	0.00556 (J)	0.0741	0.078	0.00501 (J)		
5/9/2017	<0.0002		0.0058 (J)	0.0883	0.0484	0.0108		
5/10/2017		0.00984 (J)					<0.0002	<0.0002
6/27/2017	<0.0002						<0.0002	<0.0002
6/28/2017		0.0102	0.00616 (J)	0.109	0.0598	0.00752 (J)		
2/27/2018	<0.0002	0.011	0.00962 (J)			0.0121		
2/28/2018				0.0903	0.0346		<0.0002	<0.0002
6/4/2018	<0.0002							
6/5/2018		0.00752 (J)	0.00984 (J)				<0.0002	<0.0002
6/6/2018				0.0757	0.0253	0.0101		
11/5/2018			0.00944 (J)	0.0906	0.044			
11/6/2018	<0.0002						<0.0002	<0.0002
11/7/2018		0.00748 (J)				0.0155		
3/26/2019				0.11	0.0262		<0.0002	<0.0002
3/27/2019	<0.0002	0.00778 (J)	0.0151			0.0167		
9/10/2019	<0.0002	0.00757 (J)	0.0205	0.134		0.0125	<0.0002	<0.0002
9/11/2019					0.0226			
4/20/2020					0.0924		<0.0002	<0.0002
4/21/2020	<0.0002			0.0947		0.0141		
4/22/2020		0.00747 (J)	0.0147					
8/11/2020						0.0117		<0.0002
8/12/2020							<0.0002	
8/17/2020	<0.0002							
8/18/2020		0.00808 (J)	0.0146	0.0938	0.145			
3/9/2021						0.0205		0.000113 (J)
3/10/2021			0.00701	0.0611			<0.0002	
3/15/2021		0.0103			0.0146			
3/16/2021	0.000117 (J)							
8/17/2021	<0.0002							0.00014 (J)
8/24/2021		0.0132						
8/25/2021			0.0106	0.0547	0.0319	0.0127	<0.0002	
3/29/2022				0.0514			<0.0002	
3/30/2022			0.00425					
4/4/2022	<0.0002	0.0117				0.0166		
4/6/2022					0.0201			0.00015 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.0433				
2/17/2016	0.066	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
4/12/2016		<0.0002			<0.0002	<0.0002	<0.0002	
4/13/2016	0.0835		<0.0002	0.0567				
6/1/2016	0.0835	<0.0002	<0.0002	0.0565	<0.0002	<0.0002	<0.0002	
8/15/2016	0.0838	<0.0002	<0.0002					
8/16/2016				0.0791	<0.0002	<0.0002		
8/17/2016							<0.0002	<0.0002
9/20/2016								<0.0002
10/11/2016			<0.0002		<0.0002	<0.0002	<0.0002	
10/12/2016	0.111	<0.0002		0.0767				<0.0002
11/15/2016								<0.0002
1/4/2017								<0.0002
1/23/2017								<0.0002
1/24/2017	0.111	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
1/25/2017				0.0398				
5/9/2017			<0.0002	0.0467	<0.0002		<0.0002	<0.0002
5/10/2017	0.0566	<0.0002				<0.0002		
6/27/2017	0.0702	<0.0002			<0.0002			<0.0002
6/28/2017			<0.0002	0.0833		<0.0002	<0.0002	
2/27/2018			<0.0002		<0.0002	<0.0002		<0.0002
2/28/2018	0.0957	<0.0002		0.0643			<0.0002	
6/4/2018			<0.0002					
6/5/2018	0.0363	<0.0002			<0.0002	<0.0002		<0.0002
6/6/2018				0.0579			<0.0002	
11/5/2018				0.0548				
11/6/2018	0.0418	<0.0002	<0.0002				<0.0002	<0.0002
11/7/2018					<0.0002	<0.0002		
3/26/2019	0.062	<0.0002		0.071	<0.0002	<0.0002		<0.0002
3/27/2019			<0.0002				<0.0002	
9/9/2019	0.0681	<0.0002	<0.0002					
9/10/2019				0.0609	<0.0002	<0.0002	<0.0002	
9/11/2019								<0.0002
4/21/2020	0.0694	<0.0002	<0.0002	0.0562	<0.0002			<0.0002
4/22/2020						<0.0002	<0.0002	
8/11/2020	0.0506						<0.0002	
8/12/2020		<0.0002			<0.0002	<0.0002		
8/17/2020			<0.0002					
8/18/2020				0.0505				<0.0002
3/9/2021	0.067	0.000362						
3/10/2021				0.0123	0.000179 (J)	<0.0002	8.43E-05 (J)	
3/15/2021								<0.0002
3/16/2021			8.04E-05 (J)					
8/17/2021	0.0468	0.0004	0.00017 (J)					
8/18/2021								<0.0002
8/24/2021					0.00017 (J)	<0.0002	<0.0002	
8/25/2021				0.00789				
3/28/2022			<0.0002		0.00012 (J)			
3/29/2022							<0.0002	
3/30/2022				0.00682				
4/4/2022	0.054					<0.0002		<0.0002
4/6/2022		0.00032						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.0002				
4/12/2016				<0.0002				
6/1/2016				<0.0002				
8/15/2016				<0.0002				
8/16/2016			<0.0002		<0.0002	0.00201 (J)	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002						
9/19/2016						<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002		<0.0002			
10/11/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/12/2016	<0.0002	<0.0002						
11/14/2016						<0.0002	<0.0002	<0.0002
11/15/2016	<0.0002	<0.0002	0.00308 (J)		<0.0002			
1/3/2017						<0.0002	<0.0002	<0.0002
1/4/2017	<0.0002	<0.0002	<0.0002		<0.0002			
1/23/2017	<0.0002				<0.0002			
1/24/2017		<0.0002		<0.0002		<0.0002	<0.0002	
1/25/2017								<0.0002
1/26/2017			<0.0002					
5/9/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
5/10/2017						<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
6/28/2017				<0.0002				
2/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/4/2018				<0.0002				
6/5/2018	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
11/5/2018							<0.0002	
11/6/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/26/2019	<0.0002	<0.0002	<0.0002		<0.0002			
3/27/2019				<0.0002		<0.0002	<0.0002	<0.0002
9/9/2019				<0.0002				
9/11/2019	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
4/20/2020				<0.0002				
4/21/2020	<0.0002	<0.0002	<0.0002		<0.0002			
4/22/2020						<0.0002	<0.0002	<0.0002
8/11/2020						<0.0002		
8/12/2020							<0.0002	<0.0002
8/17/2020				<0.0002				
8/18/2020	<0.0002	<0.0002	<0.0002		<0.0002			
3/15/2021	<0.0002	<0.0002	<0.0002		<0.0002	7.41E-05 (J)	<0.0002	<0.0002
3/16/2021				<0.0002				
8/17/2021				<0.0002				
8/18/2021	<0.0002	<0.0002	<0.0002		<0.0002			
8/23/2021						<0.0002	<0.0002	<0.0002
3/28/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
4/5/2022				<0.0002				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.00574 (J)			
1/15/2019				<0.0002		0.00419 (J)	<0.0002	<0.0002
1/16/2019		<0.0002						
1/17/2019	<0.0002							
1/30/2019			<0.0002					
9/10/2019	<0.0002						<0.0002	
9/11/2019		<0.0002	<0.0002		0.00203 (J)	0.00338 (J)		<0.0002
4/20/2020							<0.0002	
4/21/2020		<0.0002						
4/22/2020	<0.0002		<0.0002	<0.0002	<0.0002	0.00246 (J)		
4/29/2020								<0.0002
8/11/2020			<0.0002			0.00401 (J)		
8/12/2020	<0.0002						<0.0002	
8/18/2020		<0.0002						<0.0002
8/19/2020				<0.0002	<0.0002			
3/9/2021			0.000166 (J)			0.0047		
3/10/2021					0.000699		<0.0002	
3/15/2021	<0.0002							0.000131 (J)
3/16/2021		<0.0002		0.000373				
8/23/2021	<0.0002							
8/24/2021		<0.0002	9E-05 (J)	0.00037	0.00048	0.00376		
8/25/2021							<0.0002	0.0001 (J)
3/28/2022	<0.0002							
3/29/2022				0.00079				
3/30/2022			0.00017 (J)		0.00076		<0.0002	
4/6/2022		<0.0002				0.00174		0.00013 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.0002							
1/16/2019		<0.0002	<0.0002					
9/11/2019	<0.0002	<0.0002	<0.0002					
4/20/2020			<0.0002	0.0703				
4/21/2020	<0.0002	<0.0002					<0.0002	<0.0002
5/28/2020						<0.0002		
7/6/2020					0.0661			
8/11/2020					0.0443	<0.0002		
8/12/2020			<0.0002					
8/17/2020				0.0737			<0.0002	
8/19/2020	<0.0002	<0.0002						<0.0002
3/8/2021					0.0761	<0.0002		
3/9/2021	0.000315	0.0026						
3/10/2021			0.000171 (J)	0.0852			0.000144 (J)	0.000173 (J)
8/17/2021					0.0555	<0.0002		
8/18/2021	0.00015 (J)	0.00283		0.0752			7E-05 (J)	0.00022
8/23/2021			0.00018 (J)					
3/23/2022					0.0489	<0.0002		
3/29/2022				0.0652				
3/30/2022							<0.0002	0.00019 (J)
4/4/2022			<0.0002					
4/6/2022	0.00023	0.00264						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.00347 (J)							
4/12/2016	0.00297 (J)							
5/31/2016	0.00261 (J)							
8/17/2016	0.0033 (J)							
10/11/2016	0.0041 (J)							
1/24/2017	0.00336 (J)							
5/9/2017	0.0031 (J)							
6/28/2017	0.00356 (J)							
2/27/2018	0.0042 (J)							
6/5/2018	0.00293 (J)							
11/6/2018	0.00318 (J)							
3/27/2019	0.00284 (J)							
9/11/2019	0.00328 (J)							
4/20/2020				<0.0002	0.00223 (J)		<0.0002	
4/21/2020	0.00255 (J)							
5/28/2020		<0.0002				<0.0002		<0.0002
7/6/2020			<0.0002					
8/11/2020		<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
8/12/2020	0.00292 (J)				0.00278 (J)		<0.0002	
3/8/2021		<0.0002	<0.0002					
3/9/2021						<0.0002		0.000127 (J)
3/10/2021				0.00131	0.00289		0.000369	
3/16/2021	0.00358							
8/16/2021			<0.0002					
8/17/2021		9E-05 (J)				<0.0002		0.00018 (J)
8/23/2021	0.0031			0.00142	0.00312		0.00089	
3/23/2022		<0.0002	<0.0002			<0.0002		0.00012 (J)
4/4/2022	0.00354							
4/5/2022					0.00291		0.0004	
4/6/2022				0.00082				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.0002
2/17/2016	<0.0002						<0.0002	
4/12/2016	<0.0002							
4/13/2016							<0.0002	<0.0002
5/31/2016	<0.0002						<0.0002	
6/1/2016								<0.0002
8/17/2016	<0.0002						<0.0002	<0.0002
10/11/2016	<0.0002							
10/12/2016							<0.0002	<0.0002
1/24/2017	<0.0002							
1/25/2017							<0.0002	<0.0002
5/10/2017	<0.0002						<0.0002	<0.0002
6/28/2017	<0.0002						<0.0002	<0.0002
2/27/2018	<0.0002						<0.0002	<0.0002
6/5/2018	<0.0002						<0.0002	<0.0002
11/7/2018	<0.0002						<0.0002	<0.0002
3/26/2019	<0.0002						<0.0002	<0.0002
9/10/2019	<0.0002						<0.0002	<0.0002
4/21/2020	<0.0002						<0.0002	<0.0002
8/19/2020	<0.0002						<0.0002	<0.0002
3/9/2021	0.0024						0.000156 (J)	8.12E-05 (J)
8/17/2021		<0.0002	0.00151	0.00055	7E-05 (J)	0.0676		
8/24/2021	0.00211						0.00013 (J)	<0.0002
3/23/2022		<0.0002	0.00052	0.00013 (J)	<0.0002	0.0639		
3/29/2022	0.00142						0.00016 (J)	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.0002	
4/13/2016	<0.0002	
6/1/2016	<0.0002	
8/17/2016	<0.0002	
10/12/2016	<0.0002	
1/25/2017	<0.0002	
5/10/2017	<0.0002	
6/28/2017	<0.0002	
2/27/2018	<0.0002	
6/5/2018	<0.0002	
11/7/2018	<0.0002	
3/26/2019	<0.0002	
9/10/2019	<0.0002	<0.0002
4/20/2020		<0.0002
4/21/2020	<0.0002	
8/17/2020		<0.0002
8/18/2020	<0.0002	
3/9/2021	<0.0002	
3/10/2021		<0.0002
8/17/2021		<0.0002
8/24/2021	<0.0002	
3/29/2022	<0.0002	
4/5/2022		<0.0002

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:57 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		6.29		6.84	6.4	6.21		
2/17/2016	5.8		6.04				6.02	6.18
4/12/2016					6.41	6.37	6.17	
4/13/2016	5.85	6.21	6.07	7.03				6.28
5/31/2016		6.45	6.03	6.94	6.22	6.42	6.15	
6/1/2016	5.92							6.36
8/15/2016	5.99							6.37
8/16/2016		6.58	6.09	6.84	6.41		6.21	
8/17/2016						6.42		
10/11/2016	6.02						6.14	
10/12/2016		6.6	6.06	6.75	6.42	6.38		6.32
11/1/2016					6.55	6.33	6.15	
11/2/2016								6.33
1/24/2017	5.92						6.11	6.29
1/25/2017		6.47	5.94	6.87	6.76	6.37		
3/14/2017	5.96		6.08			6.3	6.09	6.27
3/15/2017		6.54		6.9	6.82			
5/9/2017	5.93		6.07	6.85	6.7	6.43		
5/10/2017		6.53					6.11	6.3
6/27/2017	5.86						6.09	6.28
6/28/2017		6.49	6.02	6.85	6.58	6.4		
8/29/2017		6.49	6.19	6.86	6.4	6.32		
8/30/2017	5.88						6.1	6.34
2/27/2018	5.92	6.59	6.21			6.28		
2/28/2018				6.94	6.72		6.11	6.33
6/4/2018	5.89							
6/5/2018		6.52	6.27				6.05	6.29
6/6/2018				6.99	6.57	6.25		
9/10/2018	5.89		6.33					
9/11/2018		6.53		6.87	6.64		6.18	
9/12/2018						6.42		6.36
11/5/2018			6.26	6.81	6.69			
11/6/2018	5.95						6.09	6.37
11/7/2018		6.51				6.42		
3/26/2019				6.95	6.54		6.1	6.34
3/27/2019	5.8	6.53	6.37			6.41		
9/10/2019	5.88	6.33	5.91	6.69		6.11	5.82	6.35
9/11/2019					6.22			
4/20/2020					6.68		6.16	6.43
4/21/2020	5.72			6.96		6.31		
4/22/2020		6.44	6.26					
8/11/2020						6.02		6.7
8/12/2020							6.1	
8/17/2020	5.54							
8/18/2020		6.33	6	6.98	6.76			
3/9/2021						6.48		6.29
3/10/2021			5.97	6.89			6.08	
3/15/2021		6.29			6			
3/16/2021	5.67							
8/17/2021	5.49							6.33
8/24/2021		6.04						
8/25/2021			6.38	7.04	6.66	6.21	6.12	

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
3/29/2022				6.44			5.81	
3/30/2022			6.02					
4/4/2022	5.17 (D)	6.21 (D)				6.39 (D)		
4/6/2022				6.24				6.42 (D)

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/16/2021			5.87					
8/17/2021	6.57	6.38	5.99					
8/18/2021								5.25
8/24/2021					6.09	5.16	5.25	
8/25/2021				6.51				
3/28/2022			5.32		6.08			
3/29/2022							5.26	
3/30/2022				6.09				
4/4/2022	6.71 (D)					4.4 (D)		5.2 (D)
4/6/2022		6.29 (D)						

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				6.29				
4/12/2016				6.33				
6/1/2016				6.4				
8/15/2016				6.36				
8/16/2016			6.21		5.39	7.13	6	6.34
8/17/2016	5.47	6.15						
9/19/2016						6.94	6	6.11
9/20/2016	5.22	4.99	6.05		5.37			
10/11/2016			6.2	6.38	5.39	6.82	6.02	5.99
10/12/2016	5.1	4.88						
10/31/2016		4.87	6.61		5.36			
11/1/2016						6.71	5.97	5.84
11/14/2016						6.57	5.98	5.83
11/15/2016	5.07	4.81	6.64		5.33			
11/28/2016						6.57	6	5.79
11/29/2016	5.1	4.84	6.39		5.33			
1/3/2017						6.56	6.03	5.39
1/4/2017	5.3	4.88	6.06		5.49			
1/23/2017	5.12				5.48			
1/24/2017		5.4		6.34		6.41	5.9	
1/25/2017								5.09
1/26/2017			6.02					
3/13/2017			5.68					
3/14/2017	4.74	5.13		6.42	5.17	6.37	6.07	4.99
5/9/2017	4.83	4.96	5.05	6.35	5.11			
5/10/2017						6.41	6	4.63
5/31/2017							6.02	
6/27/2017	4.87	5.34	4.9		5.29	6.14	6.05	4.76
6/28/2017				6.32				
8/29/2017	4.71							
8/30/2017		4.69	4.73	6.32	5.09	6.08	6.13	4.85
2/27/2018	4.96	4.91	4.87	6.39	5.25	5.99	6.1	4.69
6/4/2018				6.4				
6/5/2018	5	4.87	4.89		5.12	5.93	6.05	4.62
9/11/2018	4.94	4.65	4.88		5.19	5.86	6.07	4.79
9/12/2018				6.35				
11/5/2018							6.01	
11/6/2018	4.9	4.67	4.86	6.34	5.12	5.89		4.62
3/26/2019	4.96	4.92	4.97		5.16			
3/27/2019				6.44		5.95	6.15	4.68
9/9/2019				6.22				
9/11/2019	4.85	4.33	3.96		4.11	5.85	5.87	4.57
4/20/2020				6.4				
4/21/2020	4.29	4.07	3.9		4.44			
4/22/2020						5.75	5.92	4.71
8/11/2020						5.63		
8/12/2020							5.84	4.65
8/17/2020				5.85				
8/18/2020	4.75	4.59	4.22		4.76			
3/15/2021	4.73	4.45	4.79		5.02	5.61	4.57	5.83
3/16/2021				6.23				
8/17/2021				6.13				

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:57 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
8/18/2021	4.52	3.78	3.94	4.01			
8/23/2021					5.67	4.17	6.04
3/28/2022	4.73	4.69	4.67	4.93	5.05	5.01	4.29
4/5/2022				6.27 (D)			

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:57 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					6.56			
1/15/2019				5.88		6.4	5.7	6.71
1/16/2019		5.99						
1/17/2019	5.65							
1/30/2019			7.87					
9/10/2019	4.87						5.61	
9/11/2019		5.6	7.2		6.55	6.17		5.96
4/20/2020							5.63	
4/21/2020		6.54						
4/22/2020	5.45		7.72	6.23	6.66	6.42		
4/29/2020								6.37
8/11/2020			7.69			6.7		
8/12/2020	4.78						5.83	
8/18/2020		6.03						5.93
8/19/2020				5.95	6.57			
3/9/2021			7.79			6.47		
3/10/2021					6.67		5.99	
3/15/2021	5.32							6.43
3/16/2021		6.16		6.32				
8/23/2021	5.54							
8/24/2021		6.08	7.06	6.12	5.84	6.13		
8/25/2021							5.91	6.13
3/28/2022	4.44							
3/29/2022				6.36				
3/30/2022			7.81		6.62		5.69	
4/6/2022		5.24				6.31 (D)		6.16

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:58 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	6.29							
1/16/2019		6.48	6.39					
9/11/2019	6.2	6.52	6.11					
4/20/2020			6.11	7.14				
4/21/2020	6.01	6.18					6.5	6.28
5/28/2020						6.99		
7/6/2020					6.69			
8/11/2020					6.38	6.25		
8/12/2020			6.27					
8/17/2020				6.94			6.24	
8/19/2020	6.27	6.18						6.14
3/8/2021					6.86	5.74		
3/9/2021	6.29	6.47						
3/10/2021			6.14	6.83			6.35	6.14
8/17/2021					6.7	5.98		
8/18/2021	6.16	6.46		6.84			5.96	6.05
8/23/2021			6.07					
3/23/2022					6.55	5.3		
3/29/2022				6.83				
3/30/2022							5.4	5.72
4/4/2022			5.56 (D)					
4/6/2022	6.1 (D)	6.43 (D)						

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:58 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	6.63							
4/12/2016	6.59							
5/31/2016	6.57							
8/17/2016	6.72							
10/11/2016	6.69							
1/24/2017	6.61							
3/14/2017	6.55							
5/9/2017	6.65							
6/28/2017	6.66							
8/30/2017	6.66							
2/27/2018	6.73							
6/5/2018	6.63							
9/11/2018	6.65							
11/6/2018	6.65							
3/27/2019	6.59							
9/11/2019	6.36							
4/20/2020				6.17	6.58		6.12	
4/21/2020	6.5							
5/28/2020		6.42				4.47		5.99
7/6/2020			6.07					
8/11/2020		6.24	6.08	5.8		5.1		6.16
8/12/2020	6.36				6.67		6.48	
3/8/2021		6.36	5.98					
3/9/2021						5.13		5.94
3/10/2021				6.58	6.87		5.96	
3/16/2021	6.64							
8/16/2021			5.98					
8/17/2021		6.07				4.89		5.85
8/23/2021	6.5			6.33	6.67		6.34	
3/23/2022		6.17	6.14			5.2		5.88
4/4/2022	6.42 (D)							
4/5/2022					6.59 (D)		5.41 (D)	
4/6/2022				6.23 (D)				

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:58 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								6.16
2/17/2016	6.46						6.45	
4/12/2016	6.45							
4/13/2016							6.49	6.29
5/31/2016	6.51						6.43	
6/1/2016								6.33
8/17/2016	6.54						6.43	6.27
10/11/2016	6.53							
10/12/2016							6.46	6.3
1/24/2017	6.44							
1/25/2017							6.43	6.27
3/14/2017	6.4						6.41	
3/15/2017								6.27
5/10/2017	6.4						6.41	6.25
6/28/2017	6.46						6.46	6.25
8/29/2017	6.47						6.46	6.32
2/27/2018	6.53						6.45	6.36
6/5/2018	6.49						6.36	6.3
9/11/2018	6.48						6.38	6.36
11/7/2018	6.48						6.37	6.31
3/26/2019	6.54						6.39	6.32
9/10/2019	6.55						6.39	6.31
4/21/2020	6.54						6.39	6.06
8/19/2020	6.49						6.14	6.06
3/9/2021	6.43						6.45	6.31
8/17/2021		5.15	6.84	6.33	5.58	7.03		
8/24/2021	6.22						6.4	6.16
3/23/2022		5.22	6.38	5.82	5.34	6.92		
3/29/2022	5.99						6.62	6.21

Time Series

Constituent: pH (SU) Analysis Run 6/10/2022 12:58 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	6.5	
4/13/2016	6.32	
6/1/2016	6.43	
8/17/2016	6.46	
10/12/2016	6.53	
1/25/2017	6.45	
3/15/2017	6.39	
5/10/2017	6.39	
6/28/2017	6.4	
8/29/2017	6.47	
2/27/2018	6.54	
6/5/2018	6.47	
9/11/2018	6.53	
9/12/2018		6.13
11/7/2018	6.49	
3/26/2019	6.47	
9/10/2019	6.43	5.79
4/20/2020		5.99
4/21/2020	6.25	
8/17/2020		5.94
8/18/2020	6.21	
3/9/2021	6.14	
3/10/2021		6.04
8/17/2021		5.64
8/24/2021	6.08	
3/29/2022	5.61	
4/5/2022		5.95 (D)

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.00102		<0.00102	0.0227	<0.00102		
2/17/2016	0.00277 (J)		<0.00102				<0.00102	<0.00102
4/12/2016					0.0701	<0.00102	<0.00102	
4/13/2016	<0.00102	<0.00102	<0.00102	<0.00102				<0.00102
5/31/2016		<0.00102	<0.00102	<0.00102	0.0129	<0.00102	<0.00102	
6/1/2016	<0.00102							<0.00102
8/15/2016	<0.00102							<0.00102
8/16/2016		<0.00102	<0.00102	<0.00102	0.0208		<0.00102	
8/17/2016						<0.00102		
10/11/2016	<0.00102						<0.00102	
10/12/2016		<0.00102	<0.00102	<0.00102	0.00431 (J)	<0.00102		<0.00102
1/24/2017	<0.00102						<0.00102	<0.00102
1/25/2017		<0.00102	<0.00102	<0.00102	0.00779 (J)	<0.00102		
5/9/2017	<0.00102		<0.00102	<0.00102	0.00905 (J)	<0.00102		
5/10/2017		<0.00102					<0.00102	<0.00102
6/27/2017	0.00206 (J)						<0.00102	<0.00102
6/28/2017		<0.00102	<0.00102	<0.00102	0.0072 (J)	<0.00102		
2/27/2018	0.00206 (J)	<0.00102	<0.00102			<0.00102		
2/28/2018				<0.00102	0.00826 (J)		<0.00102	<0.00102
6/4/2018	<0.00102							
6/5/2018		<0.00102	<0.00102				<0.00102	<0.00102
6/6/2018				<0.00102	0.00496 (J)	<0.00102		
11/5/2018			<0.00102	<0.00102	<0.00102			
11/6/2018	<0.00102						<0.00102	<0.00102
11/7/2018		<0.00102				<0.00102		
3/26/2019				<0.00102	0.0239		<0.00102	<0.00102
3/27/2019	<0.00102	<0.00102	<0.00102			<0.00102		
9/10/2019	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102
9/11/2019					<0.00102			
4/20/2020					0.0125		<0.00102	<0.00102
4/21/2020	<0.00102			<0.00102		<0.00102		
4/22/2020		<0.00102	<0.00102					
8/11/2020						<0.00102		<0.00102
8/12/2020							<0.00102	
8/17/2020	<0.00102							
8/18/2020		<0.00102	<0.00102	<0.00102	0.00416 (J)			
3/9/2021						<0.00102		<0.00102
3/10/2021			<0.00102	<0.00102			<0.00102	
3/15/2021		<0.00102			0.0175			
3/16/2021	0.00163							
8/17/2021	0.00209							<0.00102
8/24/2021		<0.00102						
8/25/2021			<0.00102	0.00281	0.00826	<0.00102	<0.00102	
3/29/2022				<0.00102			<0.00102	
3/30/2022			<0.00102					
4/4/2022	0.00221	<0.00102				<0.00102		
4/6/2022					0.111 (o)			<0.00102
5/17/2022					0.0452 (R)			

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.00102				
2/17/2016	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	
4/12/2016		<0.00102			0.00205 (J)	<0.00102	<0.00102	
4/13/2016	<0.00102		<0.00102	<0.00102				
6/1/2016	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
8/15/2016	<0.00102	<0.00102	<0.00102					
8/16/2016				<0.00102	<0.00102	<0.00102		
8/17/2016							<0.00102	<0.00102
9/20/2016								<0.00102
10/11/2016			<0.00102		<0.00102	<0.00102	<0.00102	
10/12/2016	<0.00102	<0.00102		<0.00102				<0.00102
11/15/2016								<0.00102
1/4/2017								<0.00102
1/23/2017								0.00247 (J)
1/24/2017	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	
1/25/2017				<0.00102				
5/9/2017			<0.00102	<0.00102	<0.00102		<0.00102	0.0072 (J)
5/10/2017	<0.00102	<0.00102				<0.00102		
6/27/2017	<0.00102	<0.00102			<0.00102			0.00443 (J)
6/28/2017			<0.00102	<0.00102		0.00268 (J)	<0.00102	
2/27/2018			<0.00102		<0.00102	0.00281 (J)		<0.00102
2/28/2018	<0.00102	<0.00102		<0.00102			<0.00102	
6/4/2018			<0.00102					
6/5/2018	<0.00102	<0.00102			<0.00102	0.00294 (J)		<0.00102
6/6/2018				<0.00102			<0.00102	
11/5/2018				<0.00102				
11/6/2018	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102
11/7/2018					<0.00102	<0.00102		
3/26/2019	<0.00102	<0.00102		<0.00102	<0.00102	0.00208 (J)		<0.00102
3/27/2019			<0.00102				<0.00102	
9/9/2019	<0.00102	<0.00102	<0.00102					
9/10/2019				<0.00102	<0.00102	<0.00102	<0.00102	
9/11/2019								<0.00102
4/21/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			<0.00102
4/22/2020						<0.00102	<0.00102	
8/11/2020	<0.00102						<0.00102	
8/12/2020		<0.00102			<0.00102	<0.00102		
8/17/2020			<0.00102					
8/18/2020				<0.00102				<0.00102
3/9/2021	<0.00102	<0.00102						
3/10/2021				<0.00102	0.00117	0.00139	<0.00102	
3/15/2021								<0.00102
3/16/2021			<0.00102					
8/17/2021	<0.00102	<0.00102	0.00054 (J)					<0.00102
8/18/2021								
8/24/2021					0.00113	0.00093 (J)	<0.00102	
8/25/2021				<0.00102				
3/28/2022			0.00058 (J)		0.00099 (J)			
3/29/2022							<0.00102	
3/30/2022				<0.00102				
4/4/2022	<0.00102					0.00093 (J)		<0.00102
4/6/2022		<0.00102						

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.00102				
4/12/2016				<0.00102				
6/1/2016				<0.00102				
8/15/2016				<0.00102				
8/16/2016			<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
8/17/2016	<0.00102	<0.00102						
9/19/2016						<0.00102	<0.00102	<0.00102
9/20/2016	<0.00102	<0.00102	<0.00102		<0.00102			
10/11/2016			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
10/12/2016	<0.00102	<0.00102						
11/14/2016						<0.00102	<0.00102	<0.00102
11/15/2016	<0.00102	<0.00102	<0.00102		<0.00102			
1/3/2017						<0.00102	<0.00102	<0.00102
1/4/2017	<0.00102	<0.00102	<0.00102		<0.00102			
1/23/2017	<0.00102				<0.00102			
1/24/2017		<0.00102		<0.00102		<0.00102	<0.00102	
1/25/2017								<0.00102
1/26/2017			<0.00102					
5/9/2017	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102			
5/10/2017						<0.00102	<0.00102	<0.00102
6/27/2017	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
6/28/2017				<0.00102				
2/27/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
6/4/2018				<0.00102				
6/5/2018	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
11/5/2018							<0.00102	
11/6/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
3/26/2019	<0.00102	<0.00102	<0.00102		<0.00102			
3/27/2019				<0.00102		<0.00102	<0.00102	<0.00102
9/9/2019				<0.00102				
9/11/2019	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
4/20/2020				<0.00102				
4/21/2020	<0.00102	<0.00102	<0.00102		<0.00102			
4/22/2020						<0.00102	<0.00102	<0.00102
8/11/2020						<0.00102		
8/12/2020							<0.00102	<0.00102
8/17/2020				<0.00102				
8/18/2020	<0.00102	<0.00102	<0.00102		<0.00102			
3/15/2021	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
3/16/2021				0.000959 (J)				
8/17/2021				0.00097 (J)				
8/18/2021	<0.00102	<0.00102	<0.00102		<0.00102			
8/23/2021						<0.00102	0.00059 (J)	<0.00102
3/28/2022	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	0.00071 (J)
4/5/2022				0.00074 (J)				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.018			
1/15/2019				<0.00102		<0.00102	<0.00102	<0.00102
1/16/2019		0.00367 (J)						
1/17/2019	<0.00102							
1/30/2019			<0.00102					
9/10/2019	<0.00102						<0.00102	
9/11/2019		0.00404 (J)	<0.00102		0.0155	<0.00102		<0.00102
4/20/2020							<0.00102	
4/21/2020		0.00451 (J)						
4/22/2020	<0.00102		<0.00102	<0.00102	0.0111	<0.00102		
4/29/2020								<0.00102
8/11/2020			<0.00102			<0.00102		
8/12/2020	<0.00102						<0.00102	
8/18/2020		0.00268 (J)						<0.00102
8/19/2020				<0.00102	0.0108			
3/9/2021			<0.00102			<0.00102		
3/10/2021					0.0124		<0.00102	
3/15/2021	0.000704 (J)							<0.00102
3/16/2021		0.00362		<0.00102				
8/23/2021	<0.00102							
8/24/2021		0.00237	<0.00102	<0.00102	0.0148	<0.00102		
8/25/2021							<0.00102	<0.00102
3/28/2022	0.0006 (J)							
3/29/2022				<0.00102				
3/30/2022			<0.00102		0.00902		<0.00102	
4/6/2022		0.00364				<0.00102		<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.00102							
1/16/2019		<0.00102	<0.00102					
9/11/2019	<0.00102	<0.00102	<0.00102					
4/20/2020			<0.00102	<0.00102				
4/21/2020	<0.00102	<0.00102					<0.00102	<0.00102
5/28/2020						<0.00102		
7/6/2020					<0.00102			
8/11/2020					<0.00102	<0.00102		
8/12/2020			<0.00102					
8/17/2020				<0.00102			<0.00102	
8/19/2020	<0.00102	<0.00102						<0.00102
3/8/2021					<0.00102	<0.00102		
3/9/2021	<0.00102	<0.00102						
3/10/2021			<0.00102	<0.00102			<0.00102	<0.00102
8/17/2021					<0.00102	<0.00102		
8/18/2021	<0.00102	<0.00102		<0.00102			<0.00102	<0.00102
8/23/2021			<0.00102					
3/23/2022					<0.00102	<0.00102		
3/29/2022				<0.00102				
3/30/2022							<0.00102	<0.00102
4/4/2022			<0.00102					
4/6/2022	<0.00102	<0.00102						

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.00102							
4/12/2016	<0.00102							
5/31/2016	<0.00102							
8/17/2016	<0.00102							
10/11/2016	<0.00102							
1/24/2017	<0.00102							
5/9/2017	<0.00102							
6/28/2017	<0.00102							
2/27/2018	<0.00102							
6/5/2018	<0.00102							
11/6/2018	<0.00102							
3/27/2019	<0.00102							
9/11/2019	<0.00102							
4/20/2020				<0.00102	<0.00102		<0.00102	
4/21/2020	<0.00102							
5/28/2020		<0.00102				<0.00102		<0.00102
7/6/2020			<0.00102					
8/11/2020		<0.00102	<0.00102	<0.00102		<0.00102		<0.00102
8/12/2020	<0.00102				<0.00102		<0.00102	
3/8/2021		<0.00102	<0.00102					
3/9/2021						<0.00102		0.000652 (J)
3/10/2021				<0.00102	<0.00102		<0.00102	
3/16/2021	<0.00102							
8/16/2021			<0.00102					
8/17/2021		<0.00102				<0.00102		0.00051 (J)
8/23/2021	<0.00102			<0.00102	<0.00102		<0.00102	
3/23/2022		<0.00102	<0.00102			<0.00102		0.00097 (J)
4/4/2022	<0.00102							
4/5/2022					<0.00102		0.00059 (J)	
4/6/2022				<0.00102				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.00102
2/17/2016	<0.00102						<0.00102	
4/12/2016	<0.00102							
4/13/2016							<0.00102	<0.00102
5/31/2016	<0.00102						<0.00102	
6/1/2016								<0.00102
8/17/2016	<0.00102						<0.00102	<0.00102
10/11/2016	<0.00102							
10/12/2016							<0.00102	<0.00102
1/24/2017	<0.00102							
1/25/2017							<0.00102	<0.00102
5/10/2017	<0.00102						<0.00102	<0.00102
6/28/2017	<0.00102						<0.00102	<0.00102
2/27/2018	<0.00102						<0.00102	<0.00102
6/5/2018	<0.00102						<0.00102	<0.00102
11/7/2018	<0.00102						<0.00102	<0.00102
3/26/2019	<0.00102						<0.00102	<0.00102
9/10/2019	<0.00102						<0.00102	<0.00102
4/21/2020	<0.00102						<0.00102	<0.00102
8/19/2020	<0.00102						<0.00102	<0.00102
3/9/2021	<0.00102						<0.00102	<0.00102
8/17/2021		0.00115	0.00058 (J)	<0.00102	<0.00102	<0.00102		
8/24/2021	<0.00102						<0.00102	<0.00102
3/23/2022		0.00122	0.00071 (J)	<0.00102	<0.00102	<0.00102		
3/29/2022	<0.00102						<0.00102	<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.00102	
4/13/2016	<0.00102	
6/1/2016	<0.00102	
8/17/2016	<0.00102	
10/12/2016	<0.00102	
1/25/2017	<0.00102	
5/10/2017	<0.00102	
6/28/2017	<0.00102	
2/27/2018	<0.00102	
6/5/2018	<0.00102	
11/7/2018	<0.00102	
3/26/2019	<0.00102	
9/10/2019	<0.00102	<0.00102
4/20/2020		0.00237 (J)
4/21/2020	<0.00102	
8/17/2020		<0.00102
8/18/2020	<0.00102	
3/9/2021	<0.00102	
3/10/2021		0.0013
8/17/2021		0.00321
8/24/2021	<0.00102	
3/29/2022	<0.00102	
4/5/2022		0.00192

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		9.03		119	113	108		
2/17/2016	785		40.2				187	87.4
4/12/2016					86.7	114	188	
4/13/2016	715	10.7	33.1	122				92.7
5/31/2016		10.2	28.1	94.3	83.1	114	183	
6/1/2016	832							111
8/15/2016	862							98.3
8/16/2016		9.1	38.5	67.1	59.3		196	
8/17/2016						85.4		
10/11/2016	888						216	
10/12/2016		7.24	38.3	94.1	99.3	53.5		99.3
1/24/2017	906						183	85.4
1/25/2017		9.71	32	101	113	75.4		
5/9/2017	810		44	91	74	84		
5/10/2017		11					160	74
6/27/2017	830						150	75
6/28/2017		10	88	71	71	120		
8/29/2017		14	110	80	72	180		
8/30/2017	910						160	87
6/4/2018	850							
6/5/2018		39	79				160	87
6/6/2018				62	48	450		
9/10/2018	920		80					
9/11/2018		29		63	62		140	
9/12/2018						200		63
11/5/2018			81	74	81			
11/6/2018	880						160	97
11/7/2018		45				180		
3/26/2019				92.3	92.4		157	123
3/27/2019	1090	66.2	83.2			335		
9/10/2019	992	50.5	87.2	89.3		193	150	68
9/11/2019					128			
4/20/2020					76.5		142	49.6
4/21/2020	874			121		168		
4/22/2020		63.2	58.7					
8/11/2020						242		55
8/12/2020							160	
8/17/2020	919							
8/18/2020		58.6	81.1	89	203			
3/9/2021						165		43.9
3/10/2021			73.2	155			136	
3/15/2021		68.5			204			
3/16/2021	933							
8/17/2021	745							46.6
8/24/2021		71.6						
8/25/2021			126	118	181	346	153	
3/29/2022				108			165	
3/30/2022			125					
4/4/2022	812.5 (D)	116.5 (D)				195.5 (D)		
4/6/2022					157			45.3 (D)

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/30/2022				115				
4/4/2022	68.9 (D)					90.2		12.5
4/6/2022		16.05 (D)						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<1			
4/12/2016				0.49 (J)			
6/1/2016				0.544 (J)			
8/15/2016				0.332 (J)			
8/16/2016			0.894 (J)	0.702 (J)	1.78	2.06	9.33
8/17/2016	0.928 (J)	6.46					
9/19/2016					2.06	1.44	11.2
9/20/2016	0.478 (J)	8.3	<1	<1			
10/11/2016			<1	<1	2.33	1.38	12.6
10/12/2016	0.727 (J)	8.36					
11/14/2016					2.31	1.15	12.4
11/15/2016	0.448 (J)	8.75	1.19	<1			
1/3/2017					2.81	1.57	14.3
1/4/2017	0.627 (J)	7.85	<1	<1			
1/23/2017	1.34			0.493 (J)			
1/24/2017		6.62	<1		3.34	2.06	
1/25/2017							15.2
1/26/2017			0.6 (J)				
5/9/2017	<1	5.6	<1	2.1 (J)	<1		
5/10/2017					2.9 (J)	2.1 (J)	12
6/27/2017	<1	5.3	<1	<1	3.4 (J)	2.7 (J)	13
6/28/2017				<1			
8/29/2017	<1						
8/30/2017		8.2	<1	<1	<1	3.7 (J)	2.6 (J)
6/4/2018				1.4 (J)			
6/5/2018	2.1 (J)	8.3	1.4 (J)	<1	3.7 (J)	3.1 (J)	17
9/11/2018	<1	8.9	<1	<1	2.2 (J)	1.6 (J)	16
9/12/2018				<1			
11/5/2018						2.4 (J)	
11/6/2018	<1	8.6	<1	<1	<1	3.1 (J)	15
3/26/2019	1.66	10.1	0.594 (J)	<1			
3/27/2019				6.64	3.55	3.24	15.1
9/9/2019				6.56			
9/11/2019	1.29	10.6	<1	<1	3.83	2.66	14.5
4/20/2020				10.5			
4/21/2020	2.21	9.4	0.694 (J)	<1			
4/22/2020					3.78	2.51	9.64
8/11/2020					4.33		
8/12/2020						2.54	13.6
8/17/2020				17.3			
8/18/2020	1.57	10.3	0.608 (J)	<1			
3/15/2021	2.5	10.4	<1	<1	3.74	8.5	2.76
3/16/2021				7.62			
8/17/2021				12			
8/18/2021	3.18	10.1	0.86 (J)		0.754 (J)		
8/23/2021					4	9.18	2.44
3/28/2022	6.24	11.2	1.29 (J)		0.951 (J)	3.34	2.55
4/5/2022				14.95 (D)			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					103			
1/15/2019				780		48.5	224	96
1/16/2019		34.9						
1/17/2019	47.9							
1/30/2019			11					
9/10/2019	27.1						291	
9/11/2019		30	11		60.5	44.1		79.1
4/20/2020							247	
4/21/2020		44.5						
4/22/2020	26.8		10.9	510	66.5	31.7		
4/29/2020								77.2
8/11/2020			8.73			51.7		
8/12/2020	13.5						285	
8/18/2020		28.8						76.6
8/19/2020				402	70			
3/9/2021			10.4			32.2		
3/10/2021					44.8		292	
3/15/2021	25.6							80.9
3/16/2021		32.4		368				
8/23/2021	24.8							
8/24/2021		22.9	9.79	383	68.2	34.1		
8/25/2021							330	147
3/28/2022	27							
3/29/2022				303				
3/30/2022			10.3		51.9		290	
4/6/2022		32.3				32.95 (D)		236

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	9.73							
1/16/2019		74	394					
9/11/2019	9.43	45.7	409					
4/20/2020			429	157				
4/21/2020	12.4	59.7					90.2	90.8
5/28/2020						81.5		
7/6/2020					83.4			
8/11/2020					54.5	49.3		
8/12/2020			415					
8/17/2020				128			78	
8/19/2020	55.7	71.8						70.7
3/8/2021					96.1	31.4		
3/9/2021	74.8	91.3						
3/10/2021			410	90.9			62	76.1
8/17/2021					115	52.1		
8/18/2021	83.6	107		395			47	51.4
8/23/2021			406					
3/23/2022					131	61.1		
3/29/2022				337				
3/30/2022							36.4	106
4/4/2022			390					
4/6/2022	95.1 (D)	105.5 (D)						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<1							
4/12/2016	0.483 (J)							
5/31/2016	0.518 (J)							
8/17/2016	3.63							
10/11/2016	15.6							
1/24/2017	28.9							
5/9/2017	25							
6/28/2017	45							
8/30/2017	96							
6/5/2018	36							
9/11/2018	48							
11/6/2018	93							
3/27/2019	33.4							
9/11/2019	149							
4/20/2020				14.7	242		252	
4/21/2020	163							
5/28/2020		94.7				10.3		198
7/6/2020			78.2					
8/11/2020		79	64.1	12.6		9.32		206
8/12/2020	132				180		274	
3/8/2021		71.5	56.9					
3/9/2021						9.2		202
3/10/2021				44.2	139		66.5	
3/16/2021	167							
8/16/2021			42.2					
8/17/2021		83.1				7.2		214
8/23/2021	155			11.6	106		117	
3/23/2022		60.4	38.9			8.46		225
4/4/2022	160							
4/5/2022					119 (D)		50.75 (D)	
4/6/2022				120 (D)				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								49.4
2/17/2016	132						311	
4/12/2016	130							
4/13/2016							330	51.7
5/31/2016	111						324	
6/1/2016								51.2
8/17/2016	95.8						306	42.9
10/11/2016	101							
10/12/2016							296	39.5
1/24/2017	129							
1/25/2017							243	31.3
5/10/2017	120						210	30
6/28/2017	100						210	35
8/29/2017	95						220	40
6/5/2018	98						390	25
9/11/2018	100						360	23
11/7/2018	97						390	30
3/26/2019	120						430	21.6
9/10/2019	140						409	37.4
4/21/2020	153						318	43.3
8/19/2020	163						296	44.5
3/9/2021	187						347	71.7
8/17/2021		6.86	13	14.9	22.7	128		
8/24/2021	210						234	71.4
3/23/2022		6.73	10.1	15.9	18.5	156		
3/29/2022	190						187	75.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	45.2	
4/13/2016	43.9	
6/1/2016	32	
8/17/2016	31.9	
10/12/2016	39.6	
1/25/2017	44	
5/10/2017	32	
6/28/2017	34	
8/29/2017	34	
6/5/2018	22	
9/11/2018	33	
9/12/2018		400
11/7/2018	76	
3/26/2019	138	
9/10/2019	115	499
4/20/2020		482
4/21/2020	133	
8/17/2020		493
8/18/2020	115	
3/9/2021	107	
3/10/2021		510
8/17/2021		569
8/24/2021	139	
3/29/2022	193	
4/5/2022		822.5 (D)

Time Series

Constituent: TDS (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		312		264	242	340		
2/17/2016	1540		158				408	310
4/12/2016					176	298	334	
4/13/2016	1200	324	161	238				372
5/31/2016		333	173	206	189	309	351	
6/1/2016	1440							360
8/15/2016	1420							366
8/16/2016		327	173	180	192		367	
8/17/2016						269		
10/11/2016	1420							
10/12/2016		312	173	223				
11/1/2016					244	252	372	
11/2/2016								374
1/24/2017	1350						354	380
1/25/2017		286	161	271	274	259		
5/9/2017	1540		195	236	191	285		
5/10/2017		326					332	381
6/27/2017	1470						331	404
6/28/2017		304	227	198	176	348		
8/29/2017		348	229	187	163	528		
8/30/2017	1530						317	420
6/4/2018	1370							
6/5/2018		346	200				318	408
6/6/2018				199	138	932		
9/10/2018	1380		183					
9/11/2018		335		184	185		321	
9/12/2018						180		415
11/5/2018			193	210	208			
11/6/2018	1450						331	447
11/7/2018		342				528		
3/26/2019				230	198		338 (D)	481
3/27/2019	1910	347	211			834		
9/10/2019	1740	351	201	218 (D)		658	358	453
9/11/2019					316			
4/20/2020					201		369	461
4/21/2020	1530			291		628		
4/22/2020		338	249					
8/11/2020						688		482
8/12/2020							401	
8/17/2020	1590							
8/18/2020		376	260	250	444			
3/9/2021						618		524
3/10/2021			274	331			397	
3/15/2021		406			374			
3/16/2021	1620							
8/17/2021	1340							490
8/24/2021		423						
8/25/2021			358	263	359	774	407	
3/29/2022				290			406	
3/30/2022			280					
4/4/2022	1310 (D)	443.5 (D)				644 (D)		
4/6/2022					298			472 (D)

Time Series

Constituent: TDS (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				264				
2/17/2016	328	464	516		142	53	144	
4/12/2016		491			155	38.7	140	
4/13/2016	373		508	226				
6/1/2016	442	468	494	231	148	46	139	
8/15/2016	392	454	476					
8/16/2016				181	132	48		
8/17/2016							142	64
9/20/2016								60
10/11/2016			508					
10/12/2016				225				54.7
11/2/2016	469	422			115	66.7	128	
11/29/2016								42
1/4/2017								56
1/23/2017								50.7
1/24/2017	464	408	510		107	78.7	124	
1/25/2017				277				
5/9/2017			510	255	80.7		136	126
5/10/2017	492	358				92.7		
6/27/2017	516	382			96.7			93.3
6/28/2017			480	175		118	145	
8/29/2017				218	120	128	139	84
8/30/2017	646	392	478					
6/4/2018			528					
6/5/2018	644	352			113	171		38.7
6/6/2018				207			153	
9/10/2018			472	197				
9/11/2018					108	170		35.3
9/12/2018	476	339					156	
11/5/2018				200				
11/6/2018	634	368	522				153	40.7
11/7/2018					96.7	163		
3/26/2019	516	406		218	103	174		36.7
3/27/2019			562				178	
9/9/2019	500	409 (D)	666					
9/10/2019				198	107	167	182	
9/11/2019								40.7
4/21/2020	490	429	878	265	107			39.3
4/22/2020						162	195	
8/11/2020	522						193	
8/12/2020		390			96	165		
8/17/2020			818					
8/18/2020				179				42
3/9/2021	684	412						
3/10/2021				296	105	179	246	
3/15/2021								42.7
3/16/2021			890					
8/17/2021	506	397	808					
8/18/2021								43.3
8/24/2021					96.7	167	224	
8/25/2021				207				
3/28/2022			868		96			

Time Series

Constituent: TDS (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/29/2022							247	
3/30/2022				320				
4/4/2022	553 (D)					155		40.7
4/6/2022		408.5 (D)						

Time Series

Constituent: TDS (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				358				
4/12/2016				393				
6/1/2016				381				
8/15/2016				348				
8/16/2016			41.3		<25	142	49.3	101
8/17/2016	36.7	65.3						
9/19/2016						121	44.7	80
9/20/2016	25.3	44	42.7		26.7			
10/11/2016				379				
10/12/2016	<25							
10/31/2016		38.7	140		25.3			
11/1/2016						103	48	78
11/28/2016						84	40.7	68.7
11/29/2016	<25	34	78		<25			
1/3/2017						89.3	49.3	60.7
1/4/2017	27.3	42	34		34.7			
1/23/2017	<25				33.3			
1/24/2017		45.3		354		83.3	48.7	
1/25/2017								54.7
1/26/2017			32.7					
5/9/2017	28.7	49.3	<25	368	<25			
5/10/2017						31.3	46.7	60.7
6/27/2017	27.3	46	30.7		<25	67.3	55.3	58
6/28/2017				368				
8/29/2017	30.7							
8/30/2017		38.7	25.3	370	28	64	57.3	66.7
6/4/2018				369				
6/5/2018	26	34.7	<25		28.7	50	52.7	71.3
9/11/2018	<25	34.7	<25		29.3	53.3	60	66.7
9/12/2018				354				
11/5/2018							53.3	
11/6/2018	26	36	<25	354	<25	66		61.3
3/26/2019	<25	30	<25		19.9 (D)			
3/27/2019				362		48.7	51.35 (D)	65.3
9/9/2019				371				
9/11/2019	27.3	40	<25		34	52.7	55.3	68.3 (D)
4/20/2020				371				
4/21/2020	30.7	36	<25		26.7			
4/22/2020						49.3	52.7	62.7
8/11/2020						52		
8/12/2020							49.3	62
8/17/2020				361				
8/18/2020	27.3	35.3	<25		30			
3/15/2021	30.7	30	<25		30	49.3	46	48
3/16/2021				340				
8/17/2021				297				
8/18/2021	28.7	32	<25		28.7			
8/23/2021						49.3	64.7	48.7
3/28/2022	32.7	38.7	<25		27.3	43.3	51.3	57.3
4/5/2022				338 (D)				

Time Series

Constituent: TDS (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					381			
1/15/2019				1210		597	392	433
1/16/2019		85.3						
1/17/2019	156							
1/30/2019			184					
9/10/2019	112						576	
9/11/2019		100	182		280	454		334
4/20/2020							534	
4/21/2020		176						
4/22/2020	114		199	977	290	512		
4/29/2020								317
8/11/2020			184			526		
8/12/2020	66						588	
8/18/2020		100						299
8/19/2020				834	308			
3/9/2021			185			524		
3/10/2021					308		602	
3/15/2021	96							321
3/16/2021		111		756				
8/23/2021	89.3							
8/24/2021		94	181	742	345	490		
8/25/2021							562	376
3/28/2022	88.7							
3/29/2022				624				
3/30/2022			170		282		493	
4/6/2022		92				450 (D)		488

Time Series

Constituent: TDS (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	334							
1/16/2019		345	706					
9/11/2019	299	366 (D)	1570					
4/20/2020			790	369				
4/21/2020	299	463					208	222
5/28/2020						195		
7/6/2020					260			
8/11/2020					258	109		
8/12/2020			728					
8/17/2020				305			181	
8/19/2020	371	534						171
3/8/2021					282	93.3		
3/9/2021	375	570						
3/10/2021			794	247			158	181
8/17/2021					303	121		
8/18/2021	401	578		730			121	130
8/23/2021			714					
3/23/2022					300	137		
3/29/2022				646				
3/30/2022							84	184
4/4/2022			604					
4/6/2022	363.5 (D)	551 (D)						

Time Series

Constituent: TDS (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	238							
4/12/2016	316							
5/31/2016	320							
8/17/2016	325							
10/11/2016	333							
1/24/2017	336							
5/9/2017	317							
6/28/2017	373							
8/30/2017	432							
6/5/2018	347							
9/11/2018	370							
11/6/2018	409							
3/27/2019	328							
9/11/2019	455							
4/20/2020				441	545		502	
4/21/2020	494							
5/28/2020		242				56.7		401
7/6/2020			498					
8/11/2020		229	462	434		52.7		407
8/12/2020	433				497		491	
3/8/2021		218	469					
3/9/2021						52		386
3/10/2021				408	444		273	
3/16/2021	510							
8/16/2021			423					
8/17/2021		217				45.3		403
8/23/2021	481			390	405		301	
3/23/2022		236	518			47.3		389
4/4/2022	488							
4/5/2022					419 (D)		154 (D)	
4/6/2022				428 (D)				

Time Series

Constituent: TDS (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								656
2/17/2016	640						892	
4/12/2016	610							
4/13/2016							1010	634
5/31/2016	626						1100	
6/1/2016								672
8/17/2016	628						1070	624
10/11/2016	636							
10/12/2016							1040	586
1/24/2017	696							
1/25/2017							972	596
5/10/2017	687						740	576
6/28/2017	622						914	612
8/29/2017	616						924	640
6/5/2018	582						1060	474
9/11/2018	616						1020	496
11/7/2018	576						1050	514
3/26/2019	682						1100	546
9/10/2019	744						1100	601 (D)
4/21/2020	742						1010	638
8/19/2020	788						1050	658
3/9/2021	716						1090	746
8/17/2021		43.3	107	59.3	53.3	318		
8/24/2021	792						930	690
3/23/2022		39.3	74	44.7	41.3	373		
3/29/2022	722						894	730

Time Series

Constituent: TDS (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	226	
4/13/2016	202	
6/1/2016	224	
8/17/2016	290	
10/12/2016	315	
1/25/2017	332	
5/10/2017	361	
6/28/2017	396	
8/29/2017	402	
6/5/2018	448	
9/11/2018	462	
9/12/2018		714
11/7/2018	506	
3/26/2019	586	
9/10/2019	586	854
4/20/2020		824
4/21/2020	578	
8/17/2020		826
8/18/2020	542	
3/9/2021	532	
3/10/2021		876
8/17/2021		900
8/24/2021	624	
3/29/2022	800	
4/5/2022		1225 (D)

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.0002		<0.0002	<0.0002	<0.0002		
2/17/2016	0.000601 (J)		0.000869 (J)				0.000697 (J)	0.000687 (J)
4/12/2016					<0.0002	<0.0002	<0.0002	
4/13/2016	<0.0002	<0.0002	<0.0002	<0.0002				<0.0002
5/31/2016		<0.0002	<0.0002	<0.0002	0.000212 (J)	<0.0002	<0.0002	
6/1/2016	<0.0002							0.000272 (J)
8/15/2016	<0.0002							0.000278 (J)
8/16/2016		<0.0002	<0.0002	<0.0002	0.000449 (J)		<0.0002	
8/17/2016						<0.0002		
10/11/2016	<0.0002						<0.0002	
10/12/2016		<0.0002	<0.0002	<0.0002	0.000532 (J)	<0.0002		0.000322 (J)
1/24/2017	<0.0002						<0.0002	0.000265 (J)
1/25/2017		<0.0002	<0.0002	<0.0002	0.000309 (J)	<0.0002		
5/9/2017	<0.0002		<0.0002	<0.0002	0.00021 (J)	<0.0002		
5/10/2017		<0.0002					<0.0002	0.000327 (J)
6/27/2017	<0.0002						<0.0002	0.000301 (J)
6/28/2017		<0.0002	<0.0002	<0.0002	0.000244 (J)	<0.0002		
2/27/2018	<0.0002	<0.0002	<0.0002			<0.0002		
2/28/2018				<0.0002	<0.0002		<0.0002	0.000321 (J)
6/4/2018	<0.0002							
6/5/2018		<0.0002	<0.0002				<0.0002	0.000288 (J)
6/6/2018				<0.0002	0.000239 (J)	<0.0002		
11/5/2018			<0.0002	<0.0002	0.000623 (J)			
11/6/2018	<0.0002						<0.0002	0.000354 (J)
11/7/2018		<0.0002				<0.0002		
3/26/2019				<0.0002	0.000215 (J)		<0.0002	0.00041 (J)
3/27/2019	<0.0002	<0.0002	<0.0002			<0.0002		
9/10/2019	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	0.000396 (J)
9/11/2019					0.00214			
4/20/2020					0.000433 (J)		<0.0002	0.00032 (J)
4/21/2020	<0.0002			<0.0002		<0.0002		
4/22/2020		<0.0002	<0.0002					
8/11/2020						<0.0002		0.000329 (J)
8/12/2020							<0.0002	
8/17/2020	<0.0002							
8/18/2020		<0.0002	<0.0002	<0.0002	0.00114			
3/9/2021						<0.0002		0.000369
3/10/2021			8.7E-05 (J)	<0.0002			8.78E-05 (J)	
3/15/2021		<0.0002			0.000506			
3/16/2021	0.000107 (J)							
8/17/2021	0.00012 (J)							0.00036
8/24/2021		<0.0002						
8/25/2021			9E-05 (J)	<0.0002	0.00124	<0.0002	<0.0002	
3/29/2022				<0.0002			0.00012 (J)	
3/30/2022			7E-05 (J)					
4/4/2022	0.00016 (J)	<0.0002				<0.0002		
4/6/2022					0.00169			0.00035

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.0002				
2/17/2016	0.00067 (J)	0.000404 (J)	0.000388 (J)		0.000364 (J)	0.00039 (J)	0.000232 (J)	
4/12/2016		<0.0002			<0.0002	<0.0002	<0.0002	
4/13/2016	<0.0002		<0.0002	<0.0002				
6/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/15/2016	<0.0002	<0.0002	<0.0002					
8/16/2016				<0.0002	<0.0002	<0.0002		
8/17/2016							<0.0002	<0.0002
9/20/2016								<0.0002
10/11/2016			<0.0002		<0.0002	<0.0002	<0.0002	
10/12/2016	<0.0002	<0.0002		<0.0002				<0.0002
11/15/2016								<0.0002
1/4/2017								<0.0002
1/23/2017								<0.0002
1/24/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
1/25/2017				<0.0002				
5/9/2017			<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
5/10/2017	<0.0002	<0.0002				<0.0002		
6/27/2017	<0.0002	<0.0002			<0.0002			<0.0002
6/28/2017			<0.0002	<0.0002		<0.0002	<0.0002	
2/27/2018			<0.0002		<0.0002	<0.0002		<0.0002
2/28/2018	<0.0002	<0.0002		<0.0002			<0.0002	
6/4/2018			<0.0002					
6/5/2018	<0.0002	<0.0002			<0.0002	<0.0002		<0.0002
6/6/2018				<0.0002			<0.0002	
11/5/2018				<0.0002				
11/6/2018	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002
11/7/2018					<0.0002	<0.0002		
3/26/2019	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002
3/27/2019			<0.0002				<0.0002	
9/9/2019	<0.0002	<0.0002	<0.0002					
9/10/2019				<0.0002	<0.0002	<0.0002	<0.0002	
9/11/2019								<0.0002
4/21/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
4/22/2020						<0.0002	<0.0002	
8/11/2020	<0.0002						<0.0002	
8/12/2020		<0.0002			<0.0002	<0.0002		
8/17/2020			<0.0002					
8/18/2020				<0.0002				<0.0002
3/9/2021	<0.0002	<0.0002						
3/10/2021				0.000106 (J)	<0.0002	<0.0002	<0.0002	
3/15/2021								<0.0002
3/16/2021			0.000101 (J)					
8/17/2021	<0.0002	<0.0002	0.00013 (J)					
8/18/2021								<0.0002
8/24/2021					<0.0002	<0.0002	<0.0002	
8/25/2021				<0.0002				
3/28/2022			0.00015 (J)		<0.0002			
3/29/2022							<0.0002	
3/30/2022				0.00011 (J)				
4/4/2022	<0.0002					<0.0002		<0.0002
4/6/2022		<0.0002						

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.00038 (J)				
4/12/2016				<0.0002				
6/1/2016				<0.0002				
8/15/2016				<0.0002				
8/16/2016			<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
8/17/2016	<0.0002	<0.0002						
9/19/2016						<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002		<0.0002			
10/11/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/12/2016	<0.0002	<0.0002						
11/14/2016						<0.0002	<0.0002	<0.0002
11/15/2016	<0.0002	<0.0002	<0.0002		<0.0002			
1/3/2017						<0.0002	<0.0002	<0.0002
1/4/2017	<0.0002	<0.0002	<0.0002		<0.0002			
1/23/2017	<0.0002				<0.0002			
1/24/2017		<0.0002		<0.0002		<0.0002	<0.0002	
1/25/2017								<0.0002
1/26/2017			<0.0002					
5/9/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
5/10/2017						<0.0002	<0.0002	<0.0002
6/27/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
6/28/2017				<0.0002				
2/27/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/4/2018				<0.0002				
6/5/2018	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
11/5/2018							<0.0002	
11/6/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/26/2019	<0.0002	<0.0002	<0.0002		<0.0002			
3/27/2019				<0.0002		<0.0002	<0.0002	<0.0002
9/9/2019				<0.0002				
9/11/2019	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
4/20/2020				<0.0002				
4/21/2020	<0.0002	<0.0002	<0.0002		<0.0002			
4/22/2020						<0.0002	<0.0002	<0.0002
8/11/2020						<0.0002		
8/12/2020							<0.0002	<0.0002
8/17/2020				<0.0002				
8/18/2020	<0.0002	<0.0002	<0.0002		<0.0002			
3/15/2021	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/16/2021				<0.0002				
8/17/2021				<0.0002				
8/18/2021	<0.0002	<0.0002	<0.0002		<0.0002			
8/23/2021						<0.0002	<0.0002	<0.0002
3/28/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
4/5/2022				<0.0002				

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.0002			
1/15/2019				<0.0002		0.00092 (J)	<0.0002	<0.0002
1/16/2019		<0.0002						
1/17/2019	<0.0002							
1/30/2019			<0.0002					
9/10/2019	<0.0002						0.000223 (J)	
9/11/2019		<0.0002	<0.0002		<0.0002	0.000983 (J)		<0.0002
4/20/2020							<0.0002	
4/21/2020		<0.0002						
4/22/2020	<0.0002		<0.0002	<0.0002	<0.0002	0.0008 (J)		
4/29/2020								<0.0002
8/11/2020			<0.0002			0.000814 (J)		
8/12/2020	<0.0002						0.000208 (J)	
8/18/2020		<0.0002						<0.0002
8/19/2020				<0.0002	<0.0002			
3/9/2021			<0.0002			0.000828		
3/10/2021					<0.0002		0.000186 (J)	
3/15/2021	<0.0002							<0.0002
3/16/2021		<0.0002		<0.0002				
8/23/2021	<0.0002							
8/24/2021		<0.0002	<0.0002	<0.0002	<0.0002	0.00076		
8/25/2021							0.00013 (J)	<0.0002
3/28/2022	<0.0002							
3/29/2022				<0.0002				
3/30/2022			<0.0002		<0.0002		0.00017 (J)	
4/6/2022		<0.0002				0.00059		<0.0002

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.0002							
1/16/2019		<0.0002	<0.0002					
9/11/2019	<0.0002	<0.0002	<0.0002					
4/20/2020			<0.0002	<0.0002				
4/21/2020	<0.0002	<0.0002					<0.0002	<0.0002
5/28/2020						<0.0002		
7/6/2020					<0.0002			
8/11/2020					<0.0002	<0.0002		
8/12/2020			<0.0002					
8/17/2020				<0.0002			<0.0002	
8/19/2020	<0.0002	<0.0002						<0.0002
3/8/2021					<0.0002	<0.0002		
3/9/2021	<0.0002	<0.0002						
3/10/2021			<0.0002	0.000103 (J)			<0.0002	<0.0002
8/17/2021					<0.0002	<0.0002		
8/18/2021	<0.0002	<0.0002		0.00021			<0.0002	<0.0002
8/23/2021			<0.0002					
3/23/2022					7E-05 (J)	<0.0002		
3/29/2022				0.00013 (J)				
3/30/2022							<0.0002	<0.0002
4/4/2022			<0.0002					
4/6/2022	<0.0002	<0.0002						

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.000779 (J)							
4/12/2016	<0.0002							
5/31/2016	<0.0002							
8/17/2016	<0.0002							
10/11/2016	<0.0002							
1/24/2017	<0.0002							
5/9/2017	<0.0002							
6/28/2017	<0.0002							
2/27/2018	<0.0002							
6/5/2018	<0.0002							
11/6/2018	<0.0002							
3/27/2019	<0.0002							
9/11/2019	<0.0002							
4/20/2020				<0.0002	<0.0002		<0.0002	
4/21/2020	<0.0002							
5/28/2020		<0.0002				<0.0002		<0.0002
7/6/2020			<0.0002					
8/11/2020		<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
8/12/2020	<0.0002				<0.0002		<0.0002	
3/8/2021		<0.0002	<0.0002					
3/9/2021						<0.0002		<0.0002
3/10/2021				<0.0002	<0.0002		<0.0002	
3/16/2021	<0.0002							
8/16/2021			<0.0002					
8/17/2021		8E-05 (J)				<0.0002		0.00012 (J)
8/23/2021	<0.0002			<0.0002	<0.0002		<0.0002	
3/23/2022		0.00011 (J)	<0.0002			<0.0002		0.00013 (J)
4/4/2022	<0.0002							
4/5/2022					<0.0002		<0.0002	
4/6/2022				<0.0002				

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.0002
2/17/2016	0.000639 (J)						0.00042 (J)	
4/12/2016	<0.0002							
4/13/2016							<0.0002	<0.0002
5/31/2016	<0.0002						<0.0002	
6/1/2016								<0.0002
8/17/2016	<0.0002						<0.0002	<0.0002
10/11/2016	<0.0002							
10/12/2016							<0.0002	<0.0002
1/24/2017	<0.0002							
1/25/2017							<0.0002	<0.0002
5/10/2017	<0.0002						<0.0002	<0.0002
6/28/2017	<0.0002						<0.0002	<0.0002
2/27/2018	<0.0002						<0.0002	<0.0002
6/5/2018	<0.0002						<0.0002	<0.0002
11/7/2018	<0.0002						<0.0002	<0.0002
3/26/2019	<0.0002						<0.0002	<0.0002
9/10/2019	<0.0002						<0.0002	<0.0002
4/21/2020	<0.0002						<0.0002	<0.0002
8/19/2020	<0.0002						<0.0002	<0.0002
3/9/2021	<0.0002						<0.0002	<0.0002
8/17/2021		<0.0002	<0.0002	<0.0002	<0.0002	8E-05 (J)		
8/24/2021	<0.0002						<0.0002	<0.0002
3/23/2022		<0.0002	<0.0002	<0.0002	<0.0002	9E-05 (J)		
3/29/2022	<0.0002						<0.0002	<0.0002

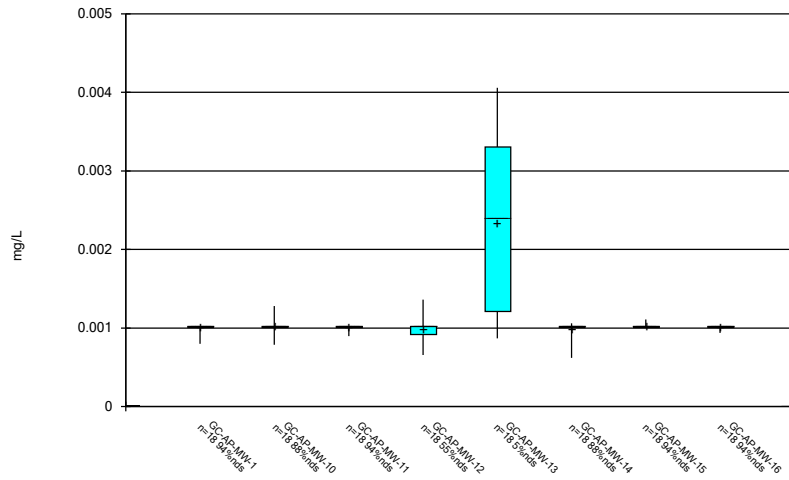
Time Series

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 12:58 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.0002	
4/13/2016	<0.0002	
6/1/2016	<0.0002	
8/17/2016	<0.0002	
10/12/2016	<0.0002	
1/25/2017	<0.0002	
5/10/2017	<0.0002	
6/28/2017	<0.0002	
2/27/2018	<0.0002	
6/5/2018	<0.0002	
11/7/2018	<0.0002	
3/26/2019	<0.0002	
9/10/2019	<0.0002	<0.0002
4/20/2020		<0.0002
4/21/2020	<0.0002	
8/17/2020		<0.0002
8/18/2020	<0.0002	
3/9/2021	<0.0002	
3/10/2021		7.61E-05 (J)
8/17/2021		0.00011 (J)
8/24/2021	<0.0002	
3/29/2022	<0.0002	
4/5/2022		9E-05 (J)

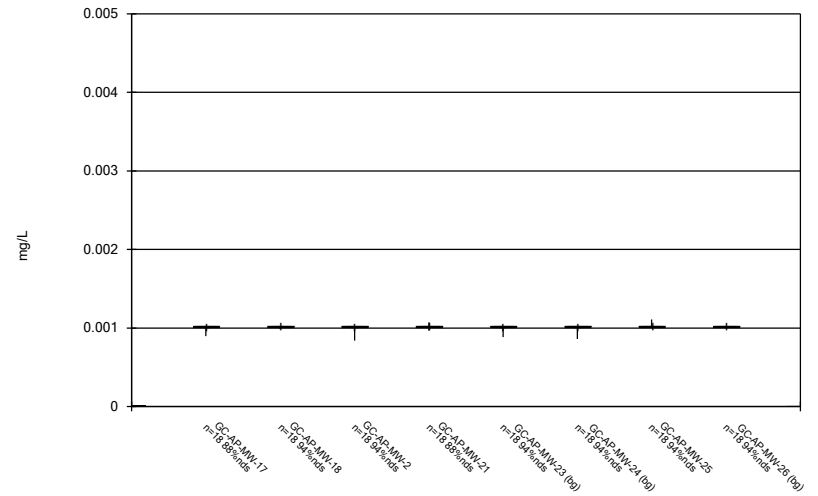
FIGURE B.

Box & Whiskers Plot



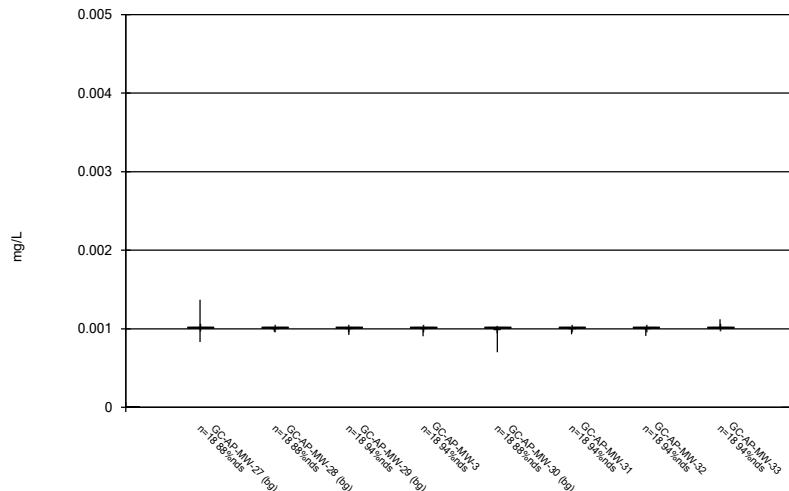
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Box & Whiskers Plot



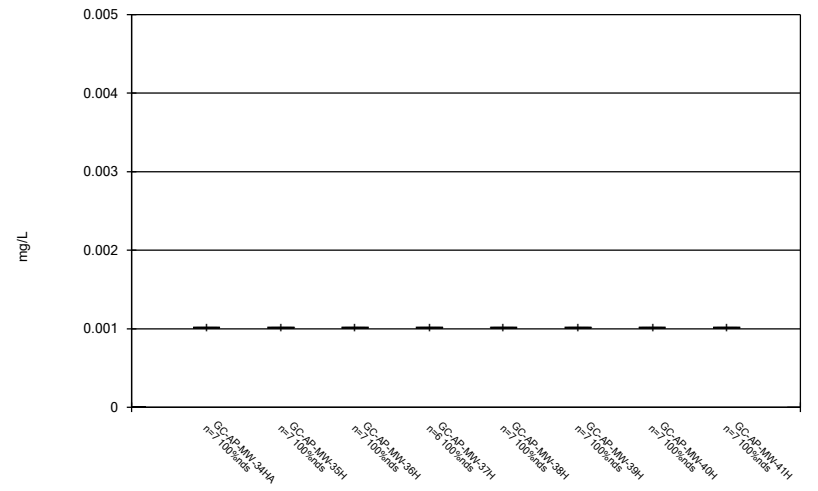
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Box & Whiskers Plot



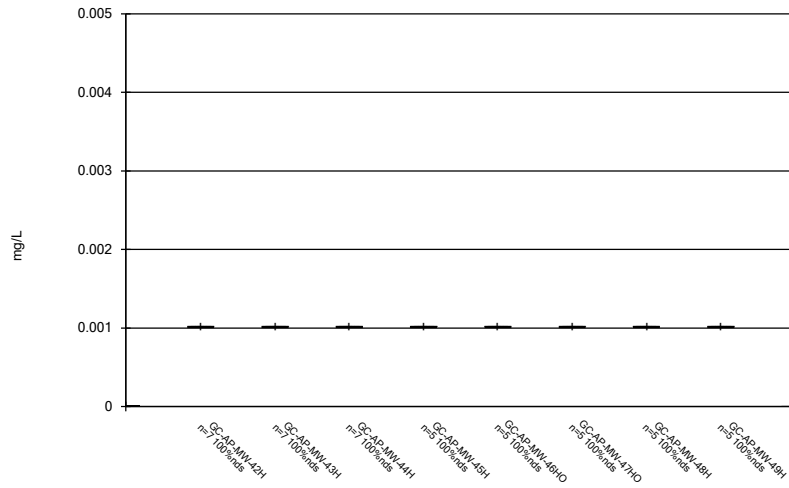
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Box & Whiskers Plot



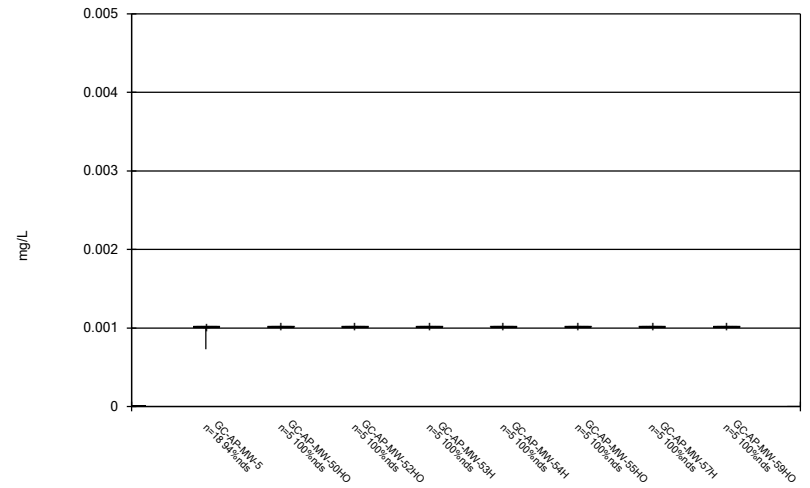
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Box & Whiskers Plot



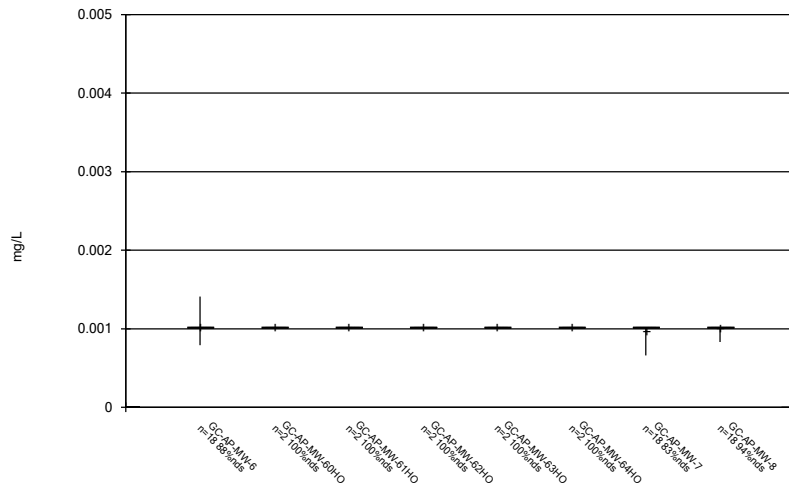
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Box & Whiskers Plot



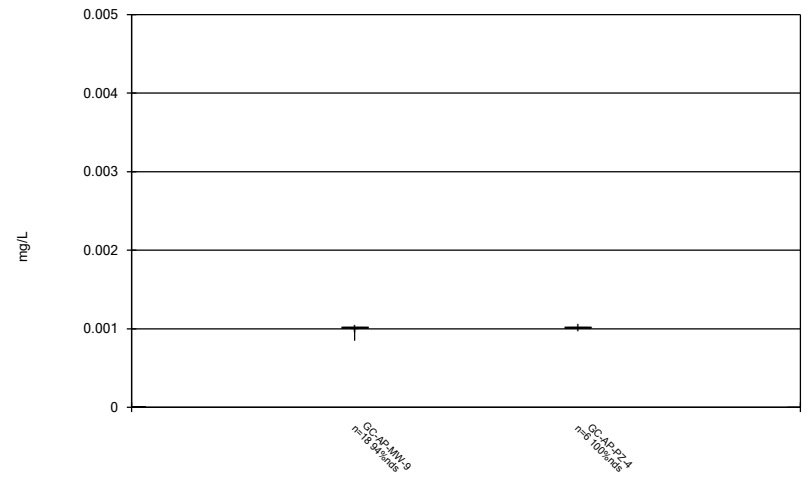
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Box & Whiskers Plot



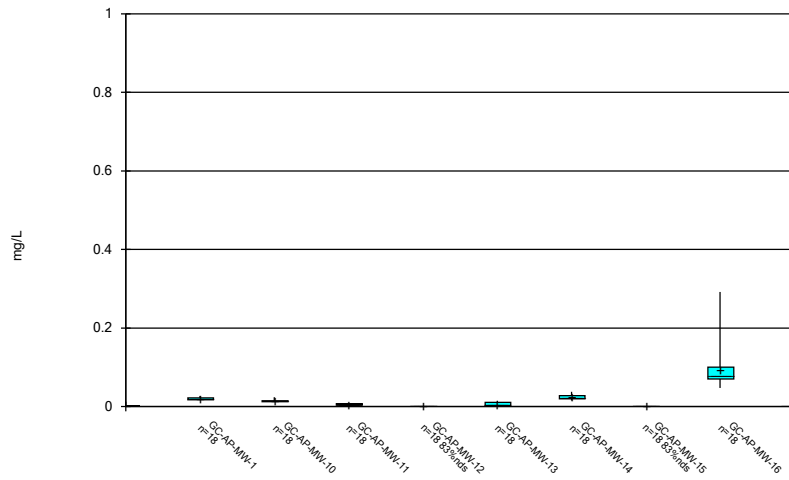
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Box & Whiskers Plot



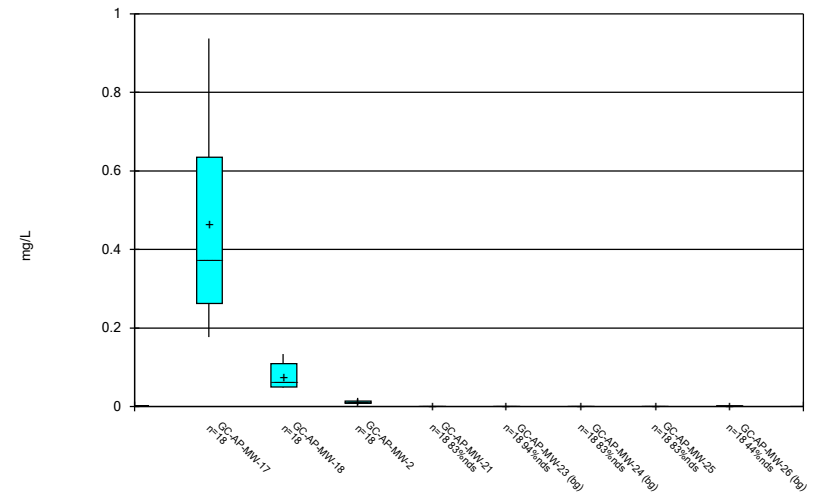
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Box & Whiskers Plot



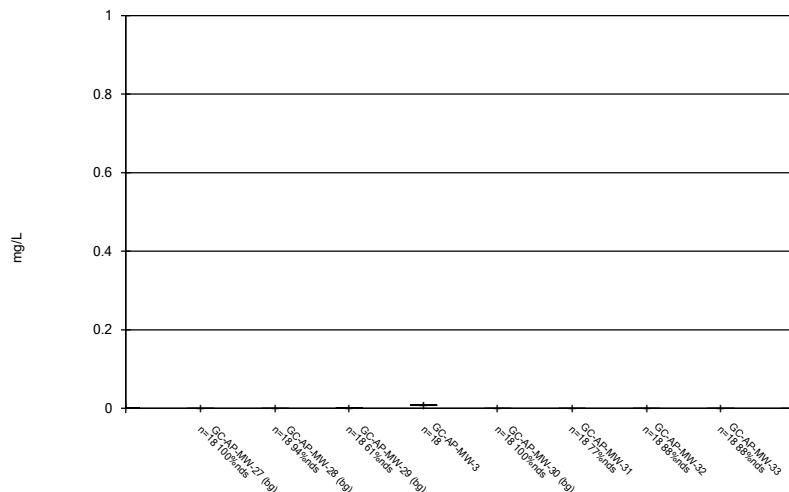
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Box & Whiskers Plot



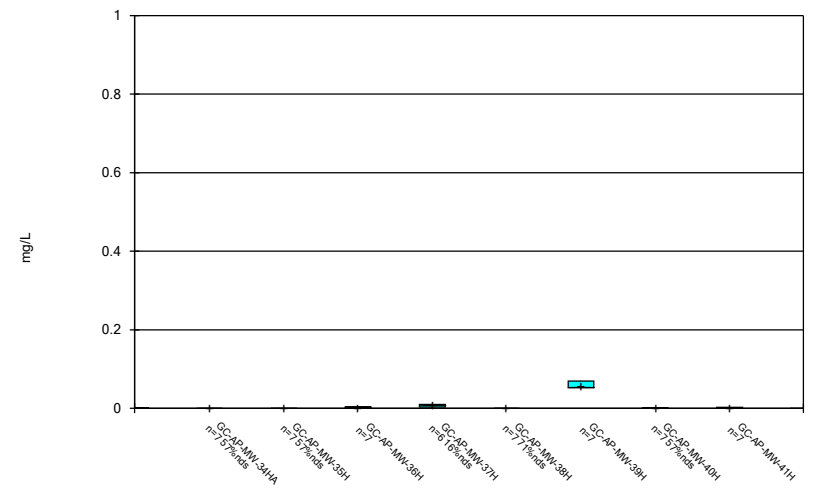
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Box & Whiskers Plot



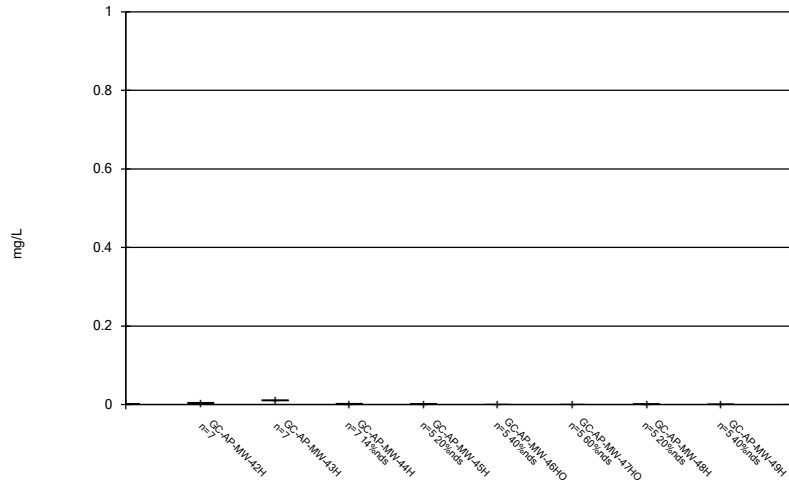
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Box & Whiskers Plot



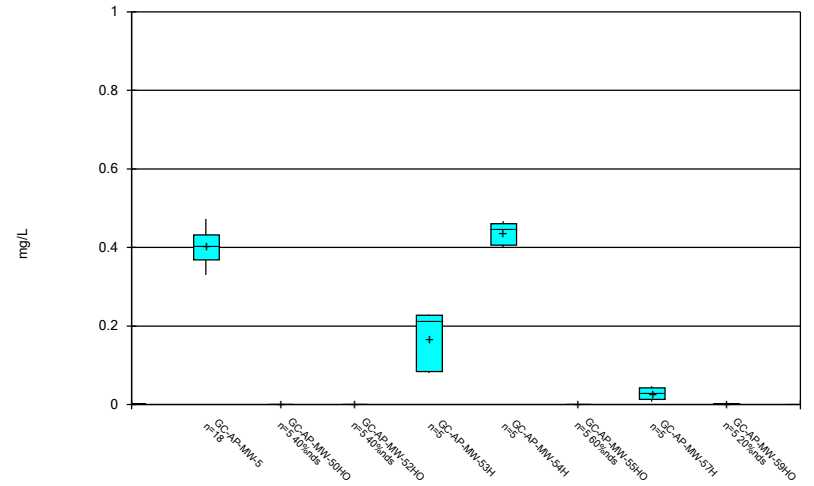
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Box & Whiskers Plot



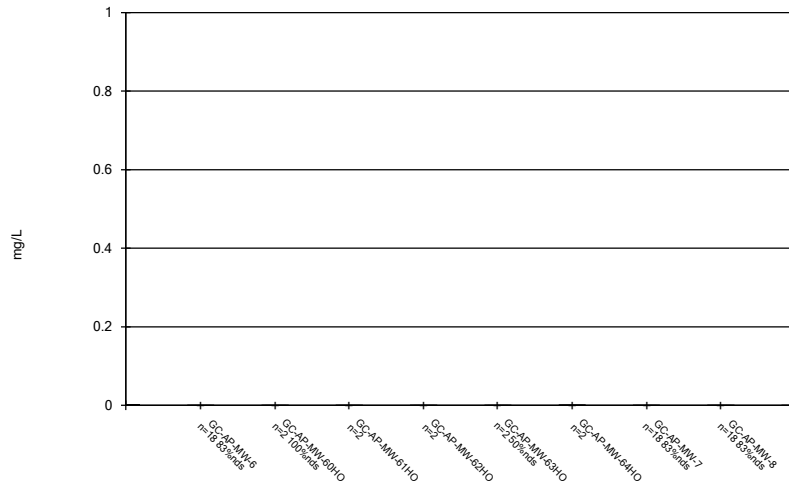
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Box & Whiskers Plot



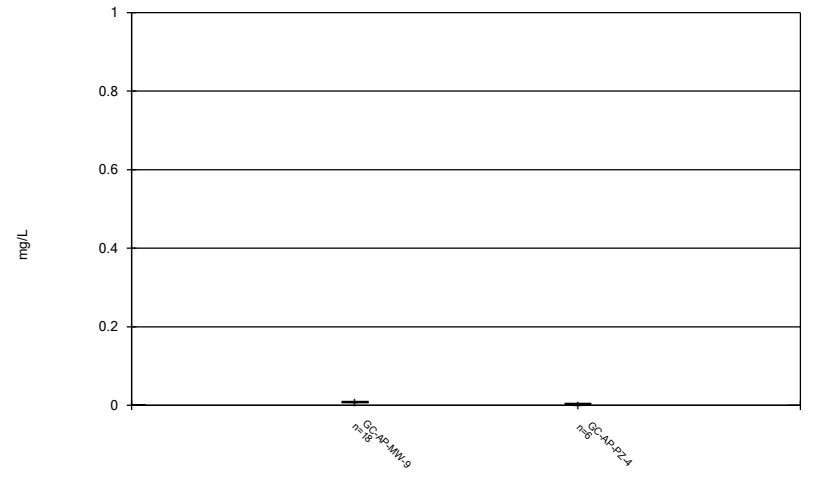
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Box & Whiskers Plot



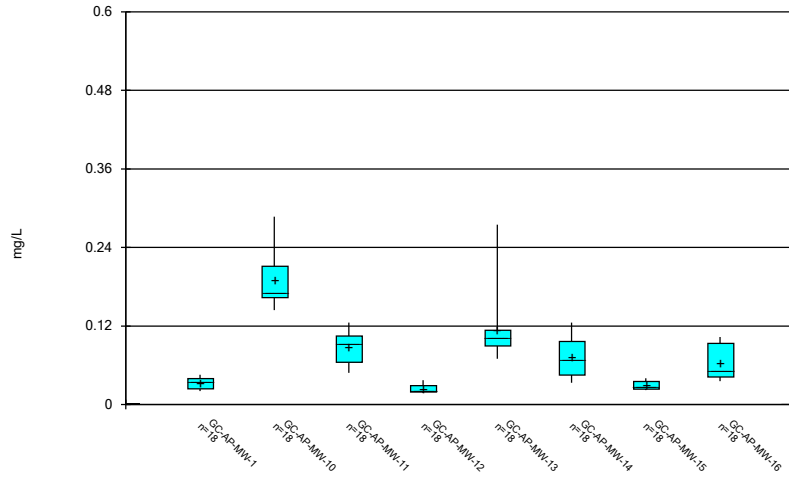
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Box & Whiskers Plot



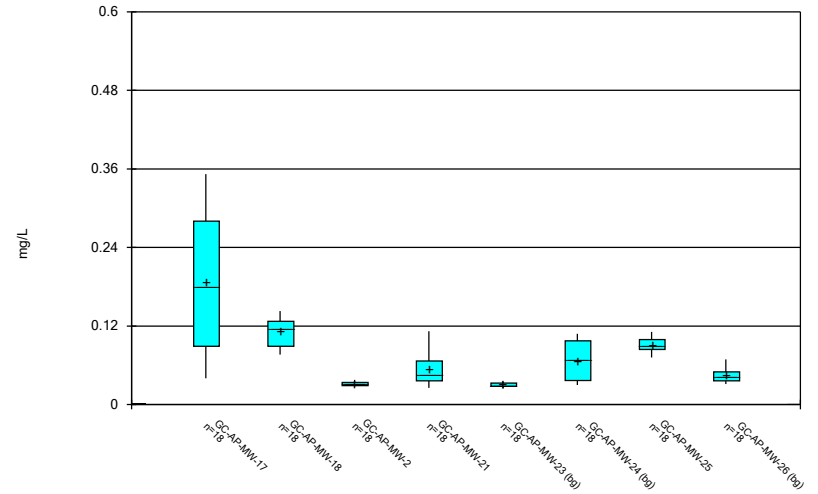
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Box & Whiskers Plot



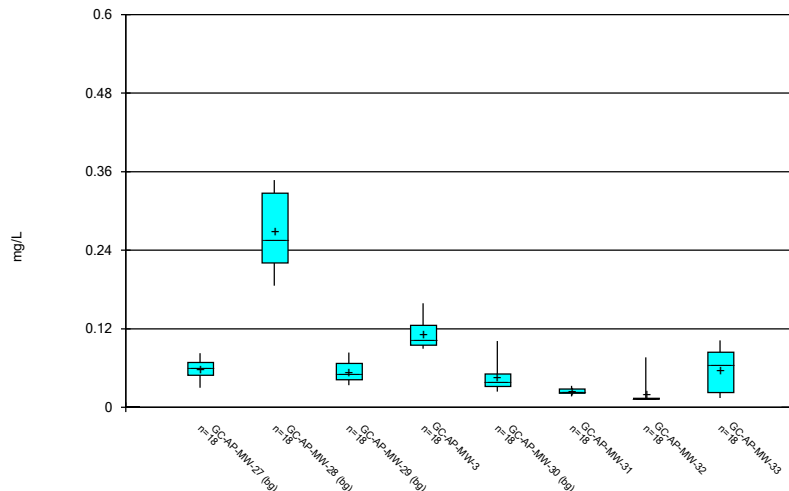
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Box & Whiskers Plot



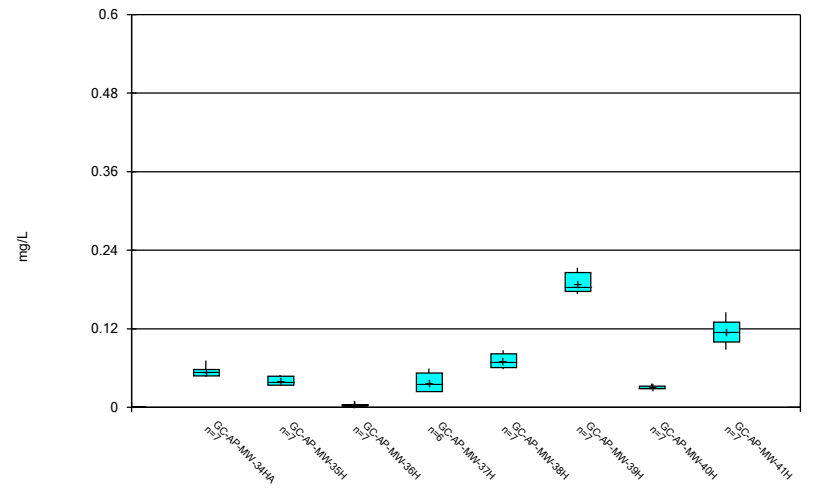
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Box & Whiskers Plot



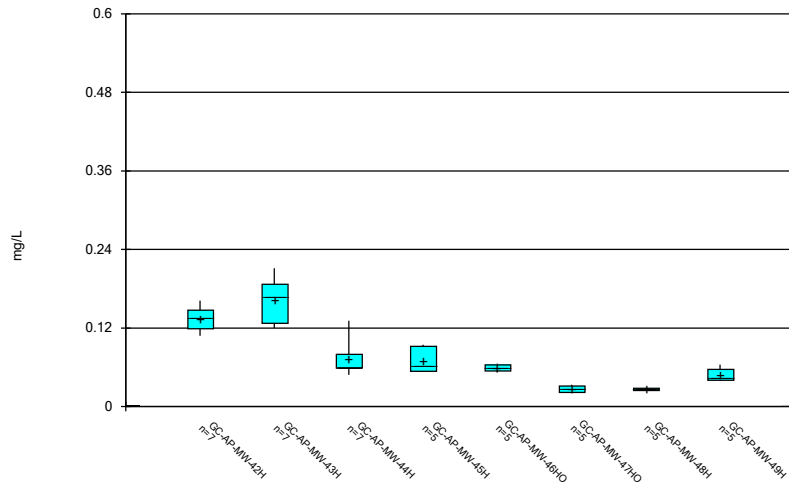
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Box & Whiskers Plot



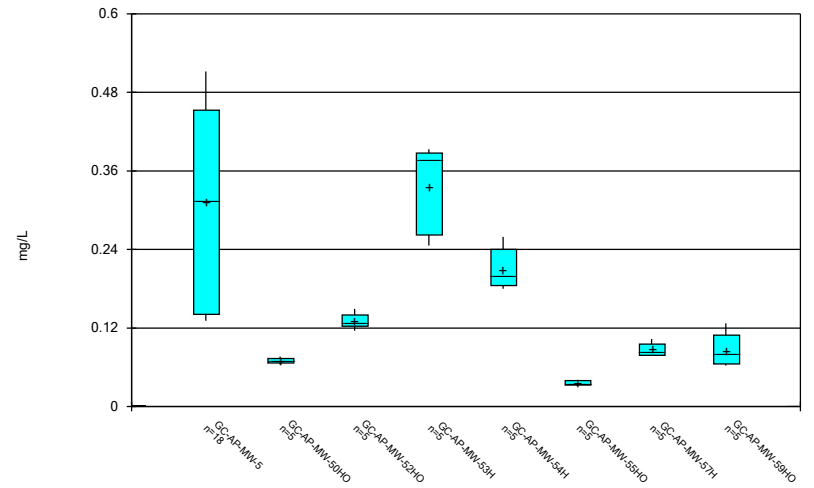
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Box & Whiskers Plot



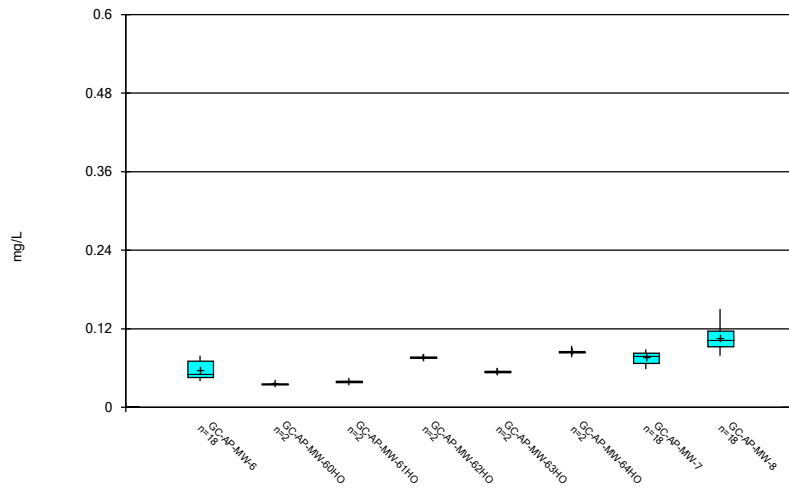
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Box & Whiskers Plot



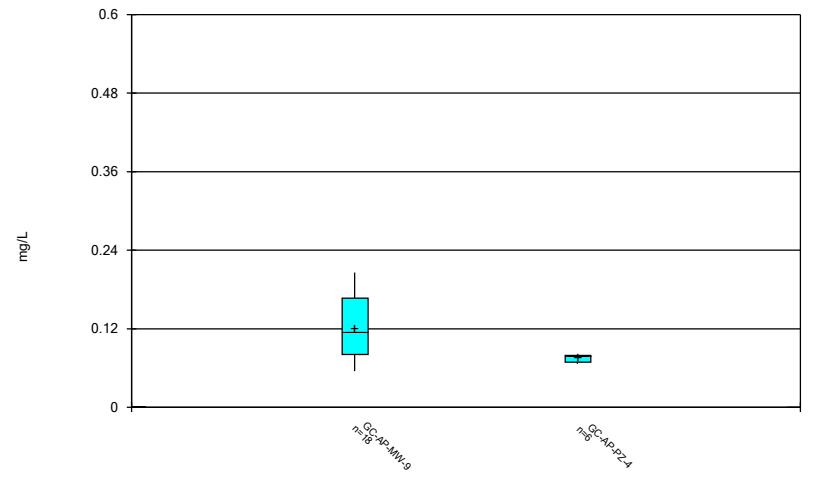
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Box & Whiskers Plot



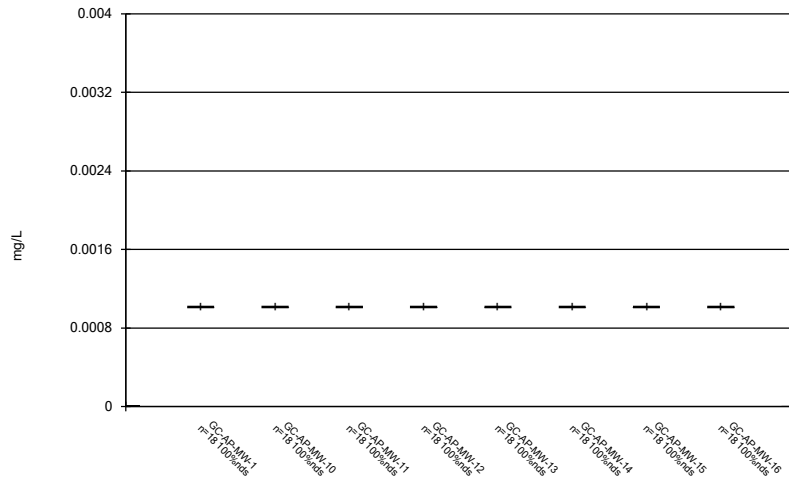
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Box & Whiskers Plot



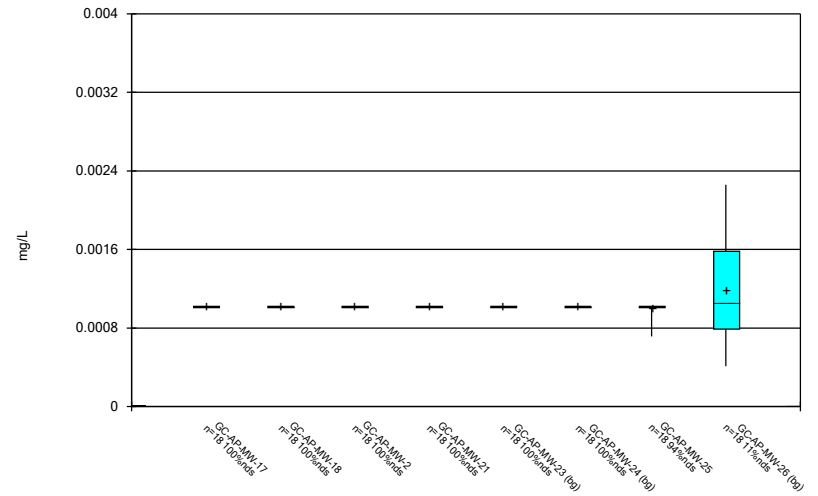
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Box & Whiskers Plot



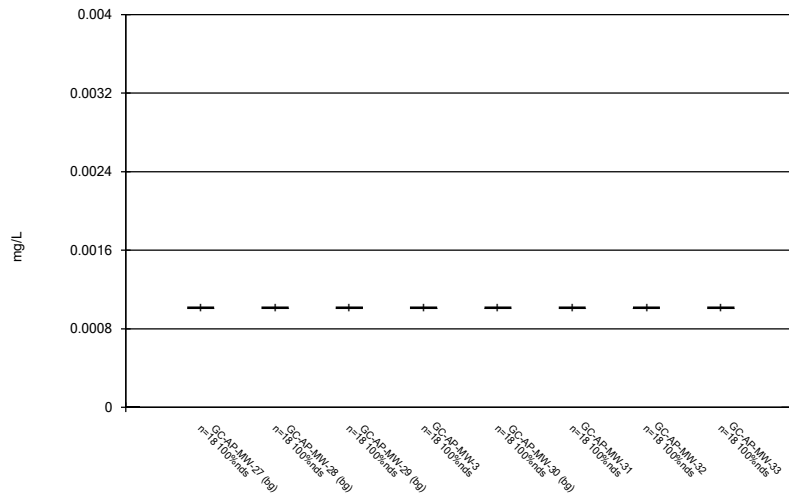
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Box & Whiskers Plot



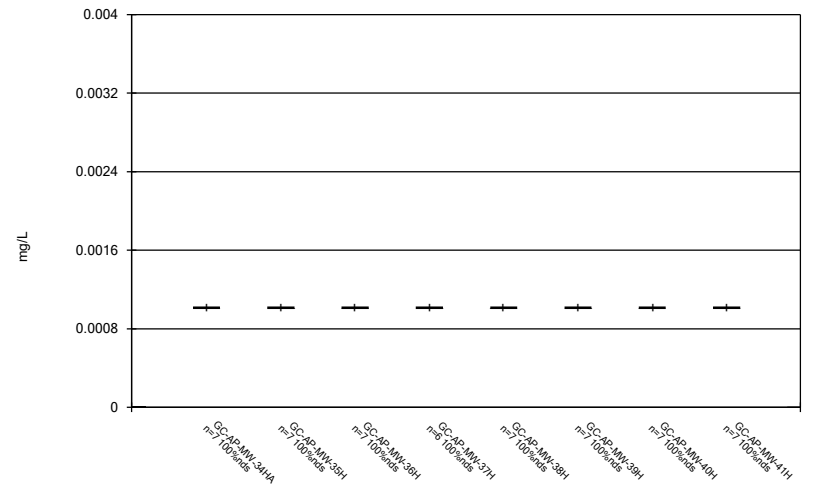
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Box & Whiskers Plot



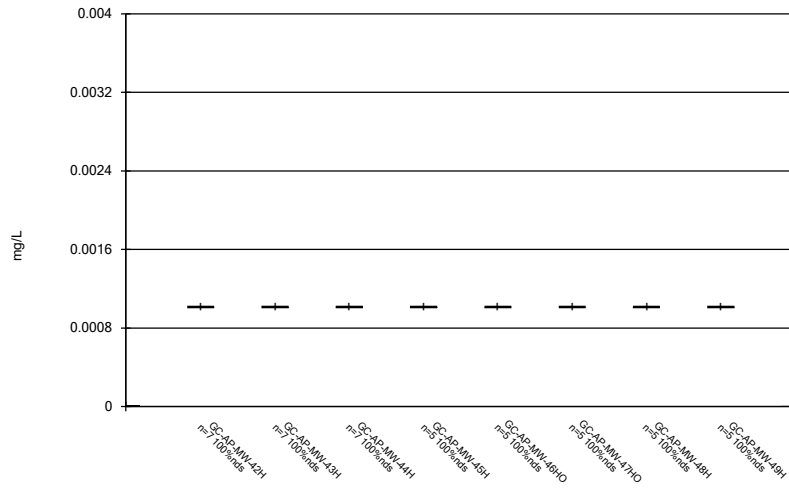
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Box & Whiskers Plot



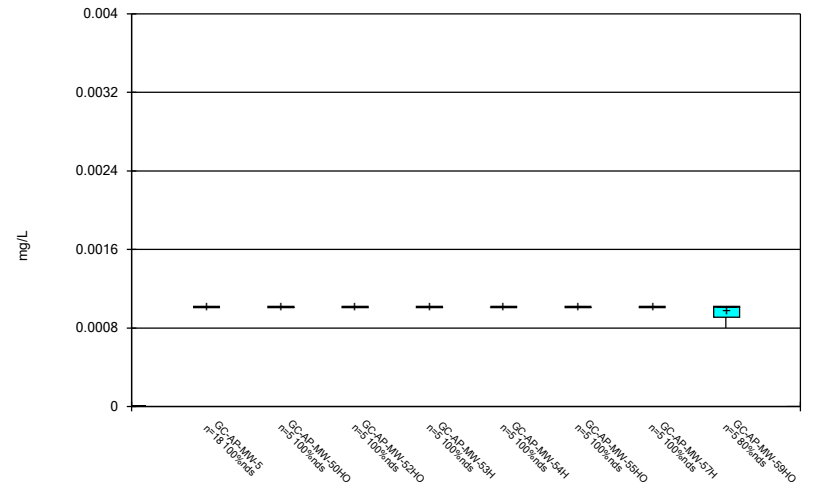
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Box & Whiskers Plot



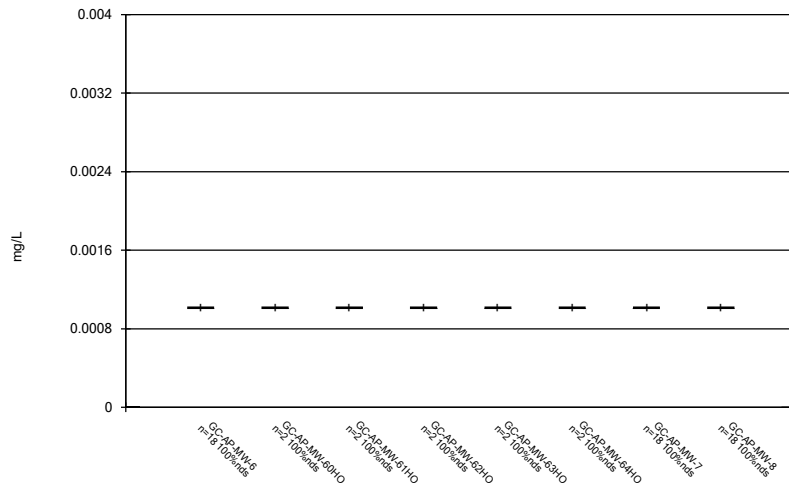
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Box & Whiskers Plot



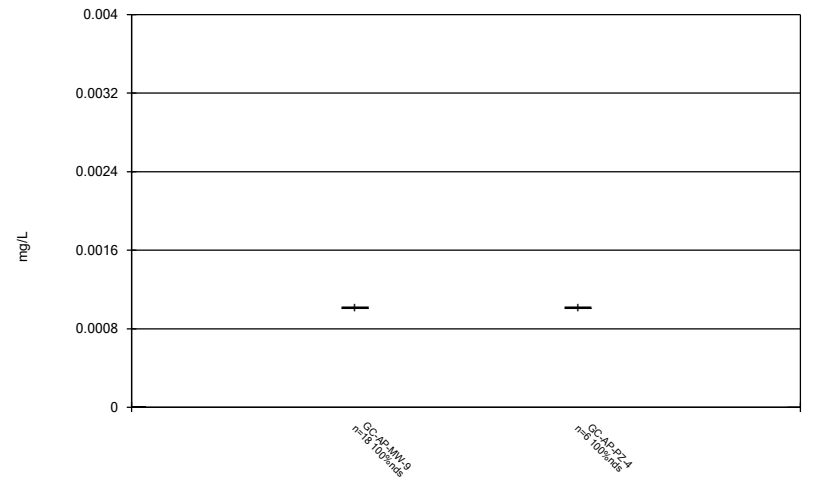
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Box & Whiskers Plot



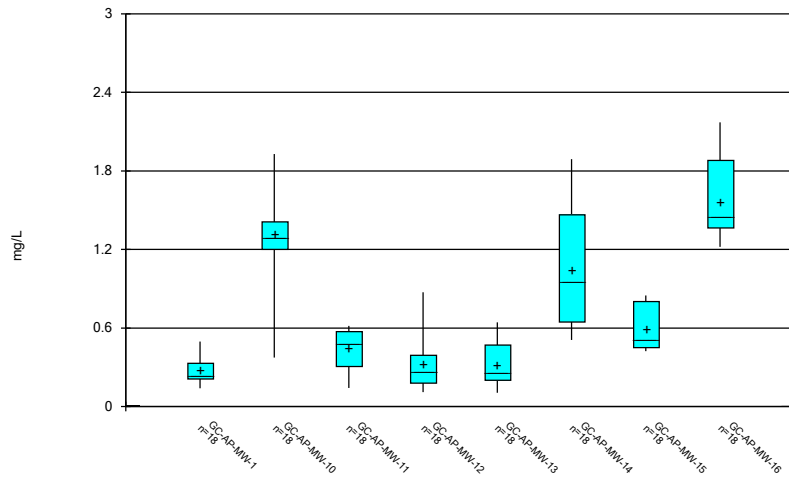
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Box & Whiskers Plot



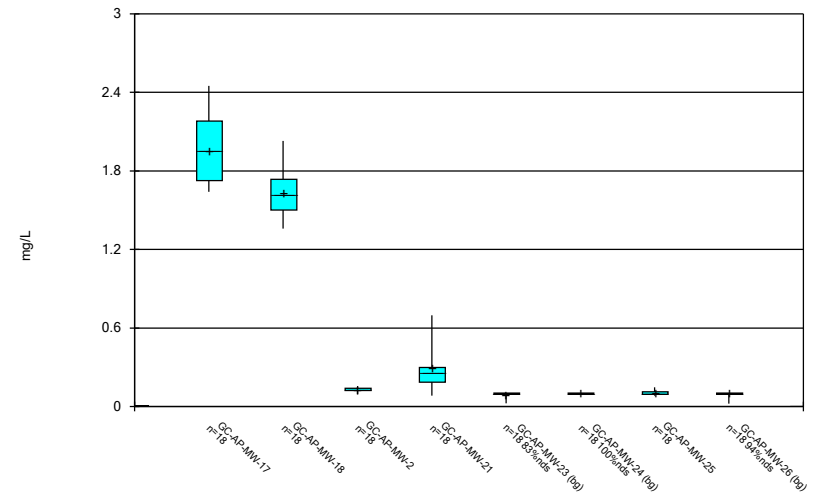
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Box & Whiskers Plot



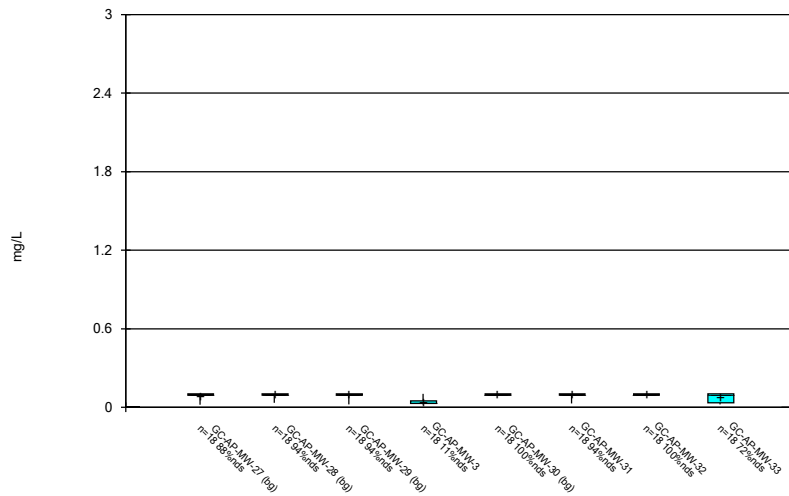
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Box & Whiskers Plot



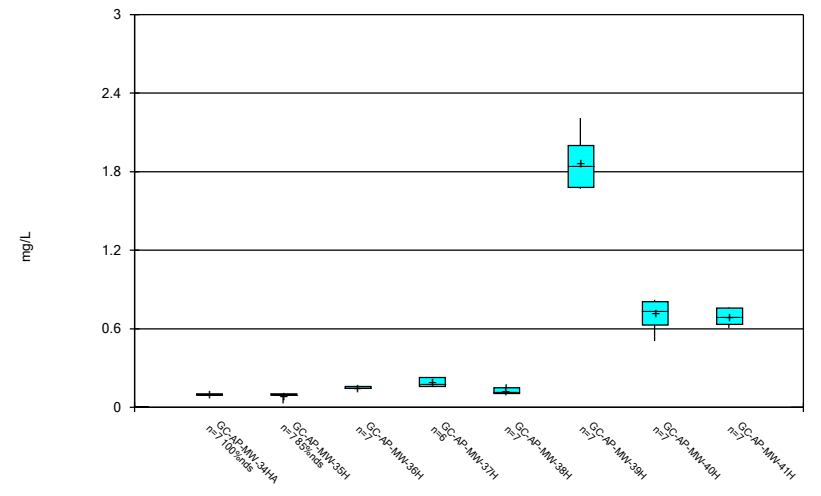
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Box & Whiskers Plot



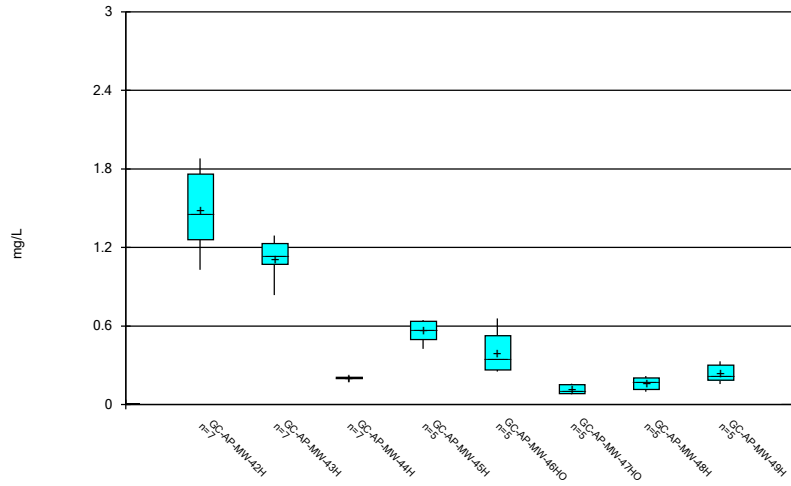
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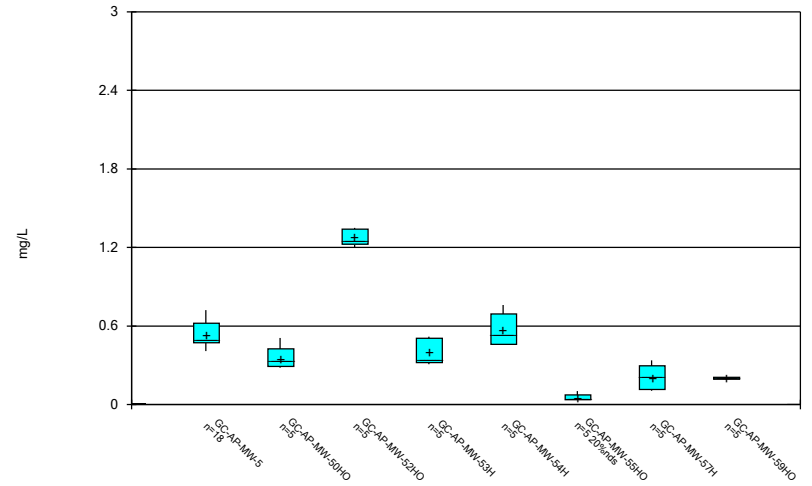
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Box & Whiskers Plot



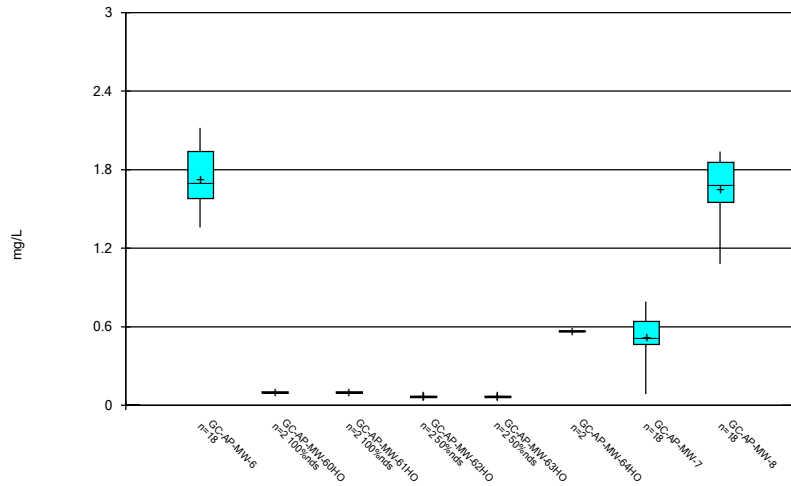
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Box & Whiskers Plot



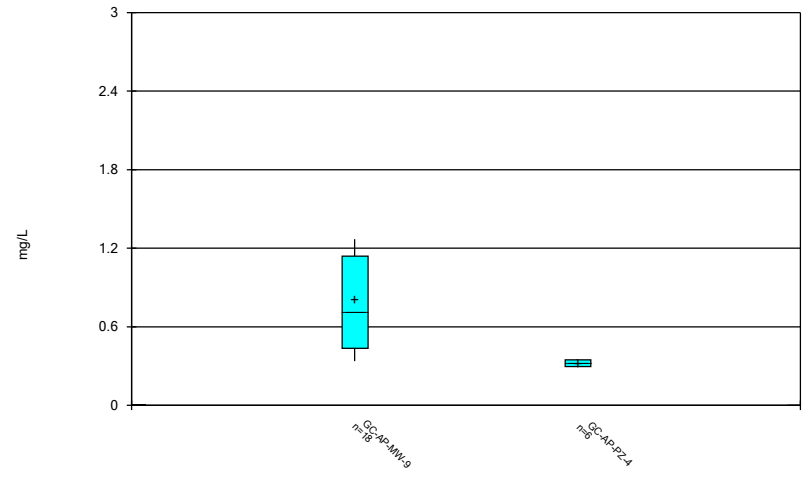
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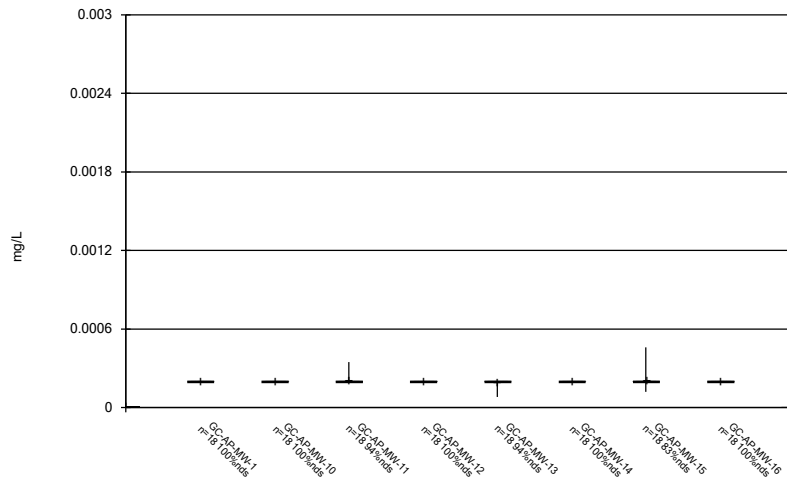
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Box & Whiskers Plot



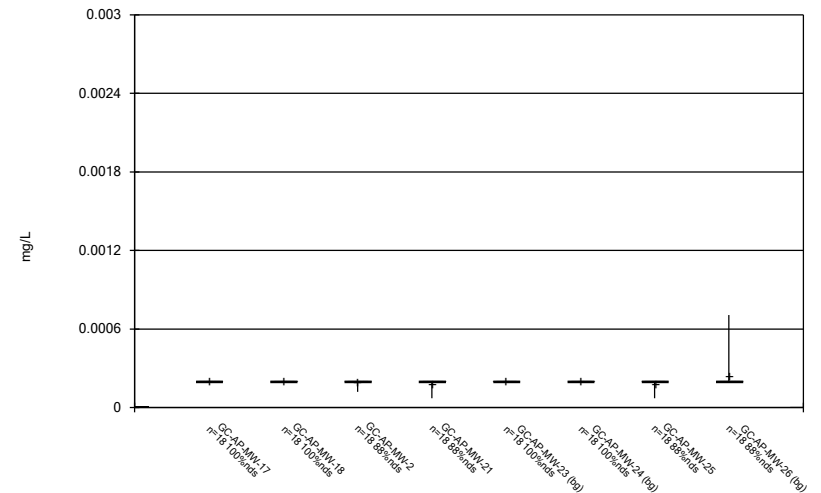
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Box & Whiskers Plot



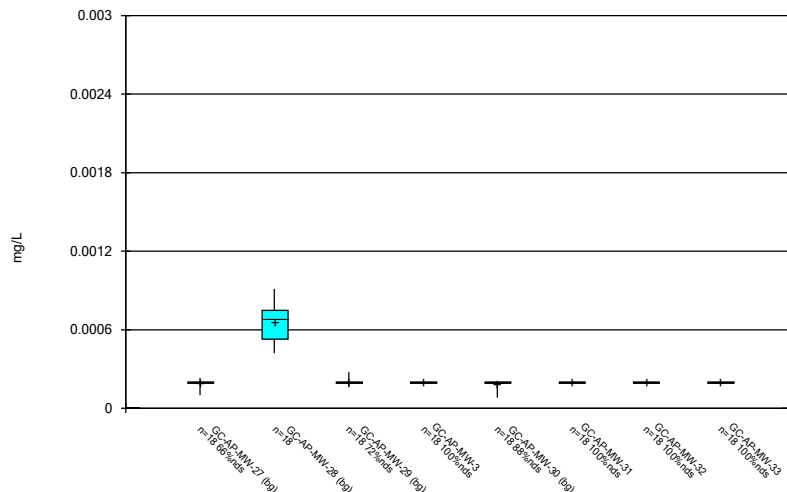
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Box & Whiskers Plot



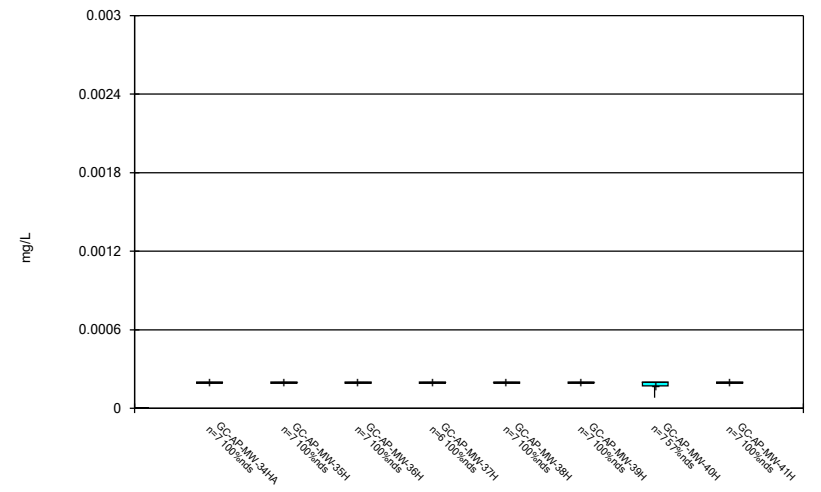
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Box & Whiskers Plot



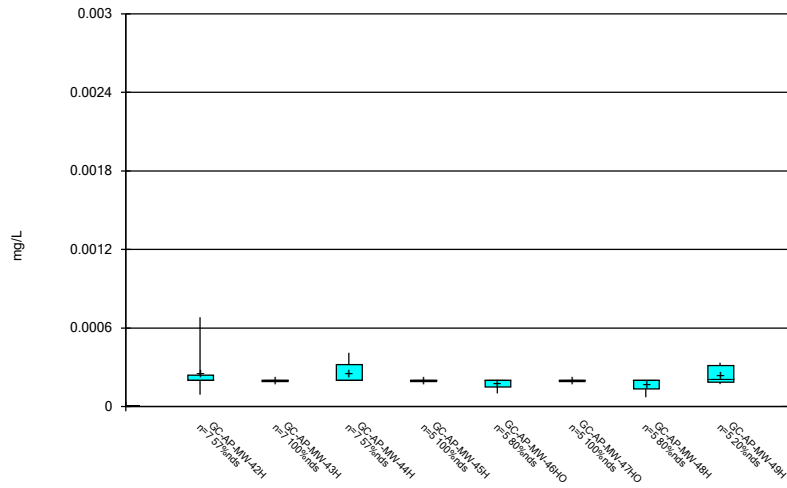
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Box & Whiskers Plot



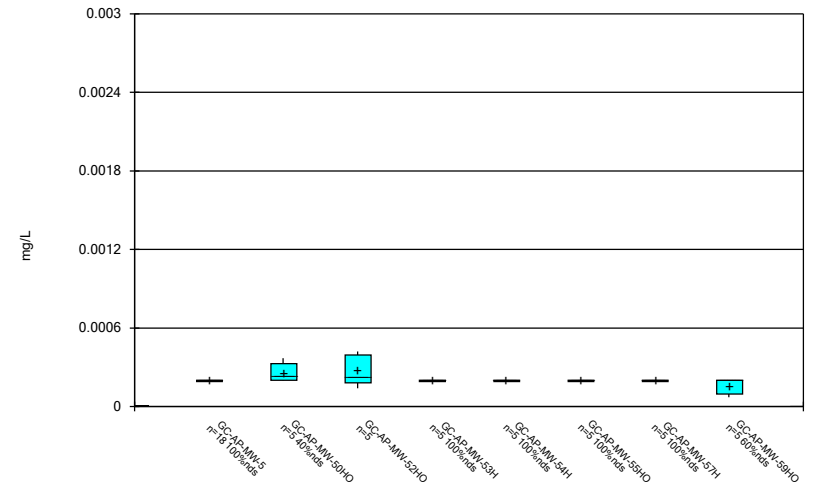
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Box & Whiskers Plot



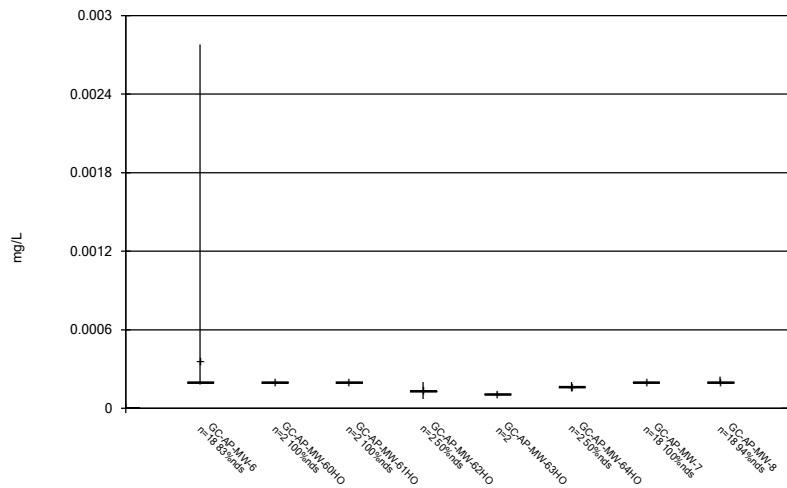
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Box & Whiskers Plot



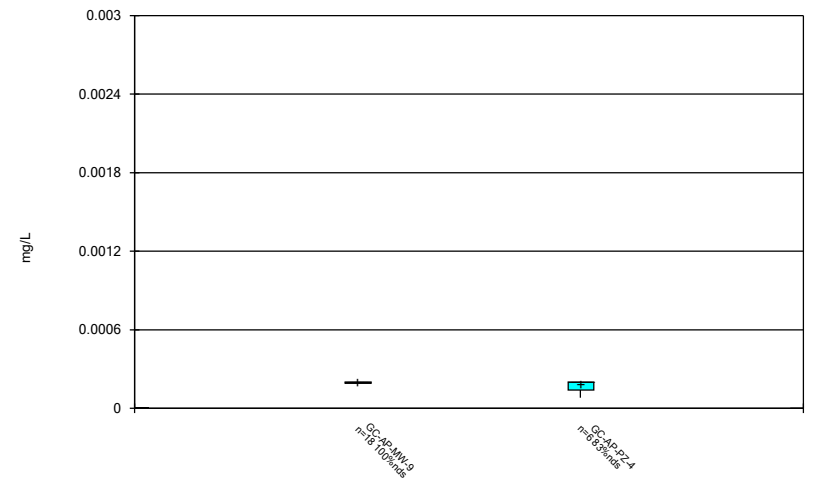
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Box & Whiskers Plot



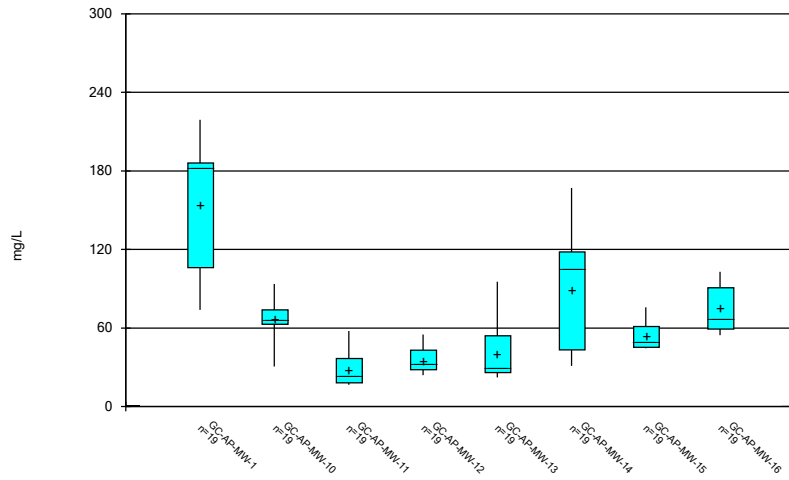
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Box & Whiskers Plot



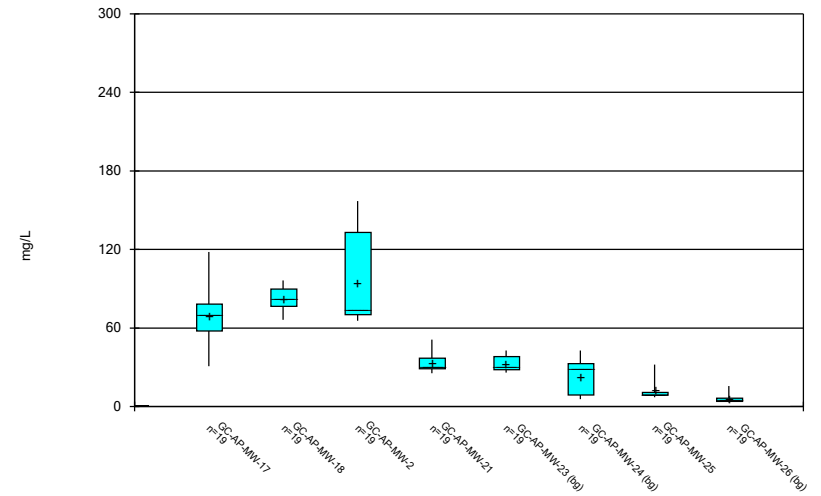
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Box & Whiskers Plot



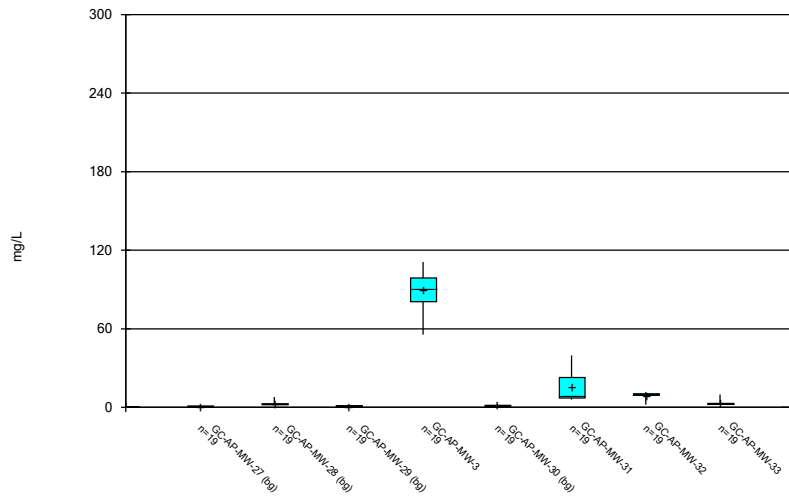
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Box & Whiskers Plot



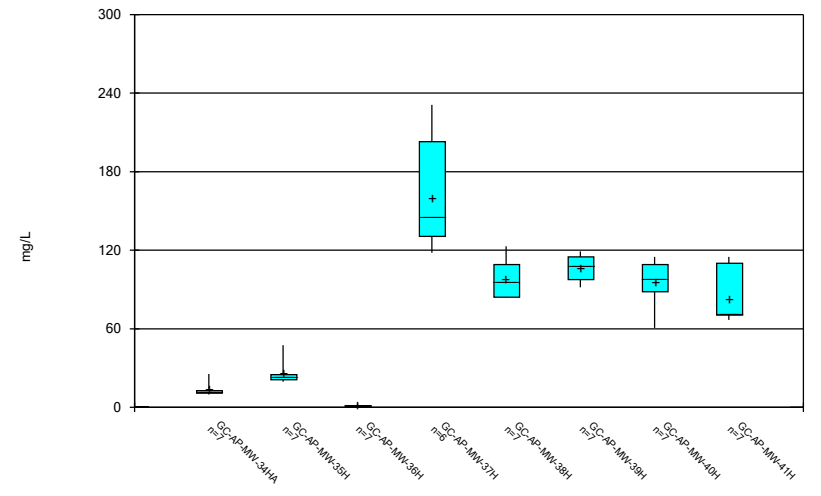
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Box & Whiskers Plot



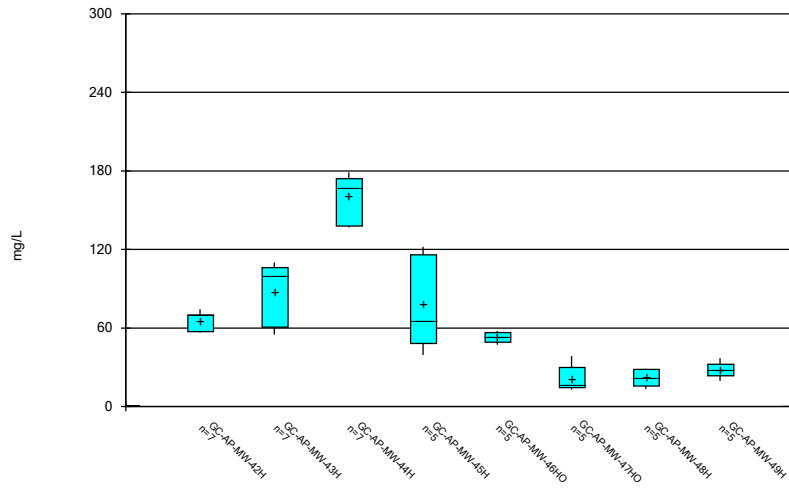
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Box & Whiskers Plot



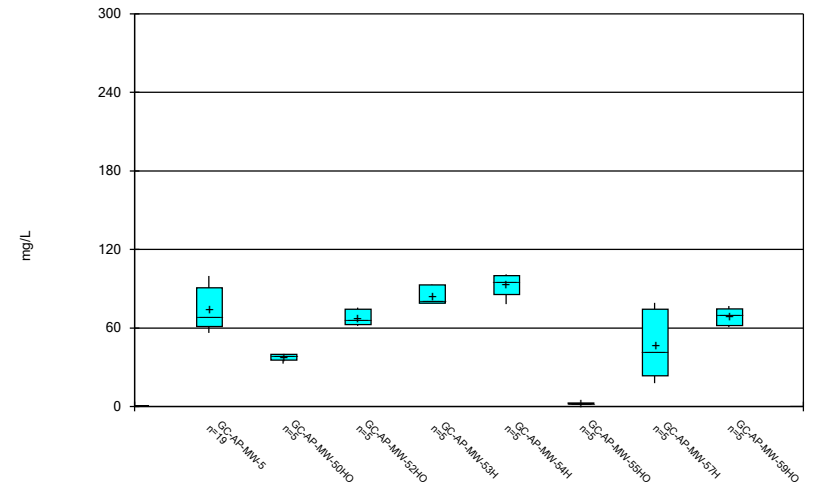
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Box & Whiskers Plot



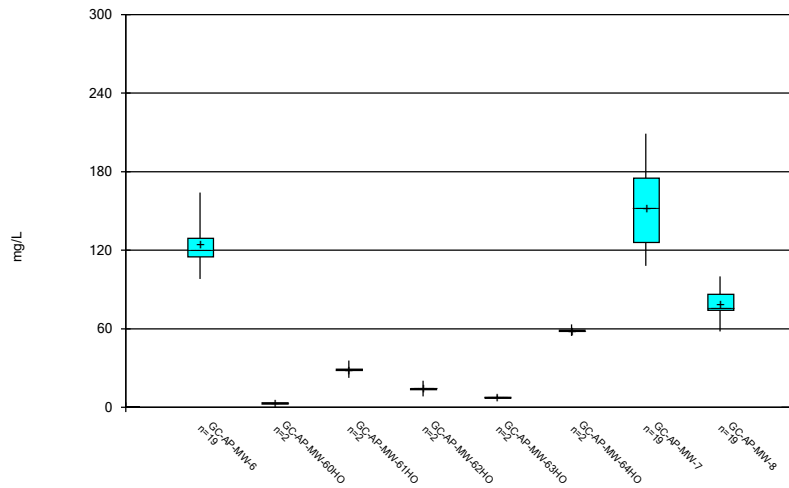
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Box & Whiskers Plot



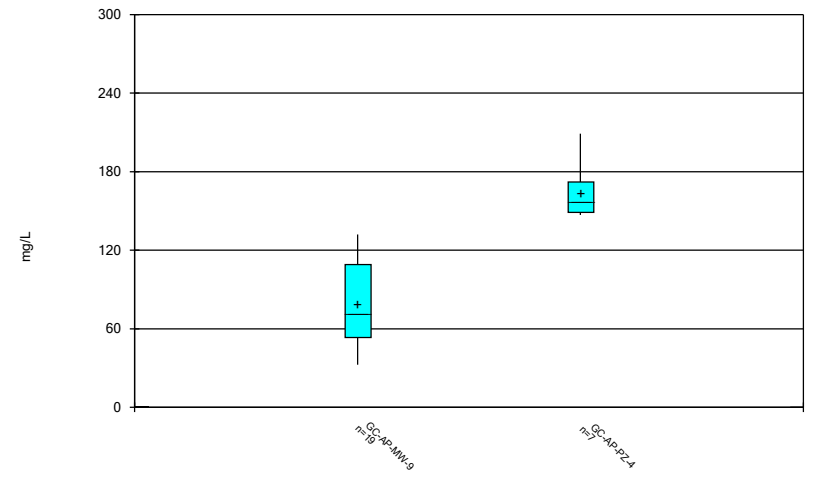
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Box & Whiskers Plot



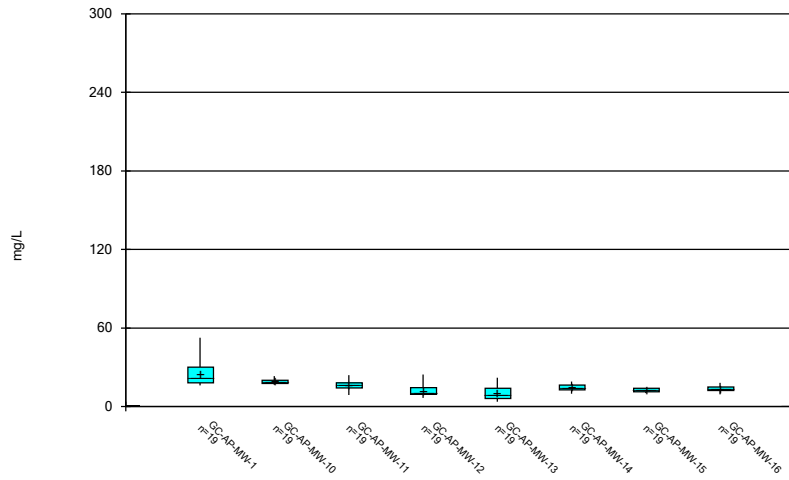
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Box & Whiskers Plot



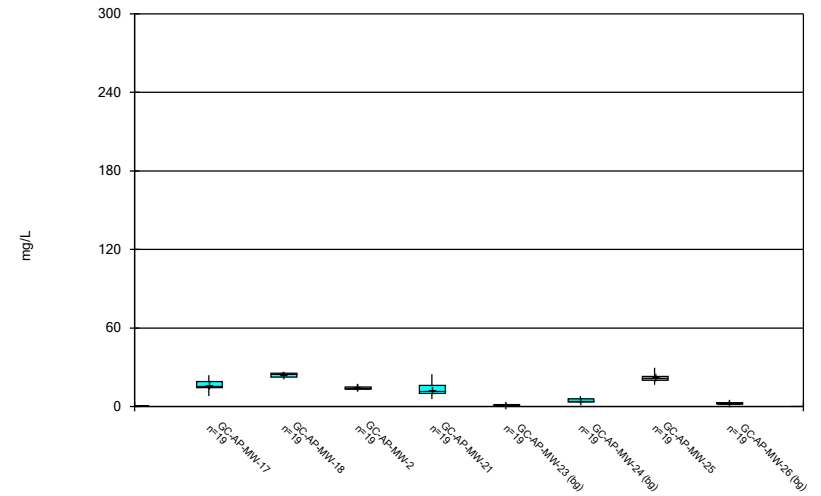
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Box & Whiskers Plot



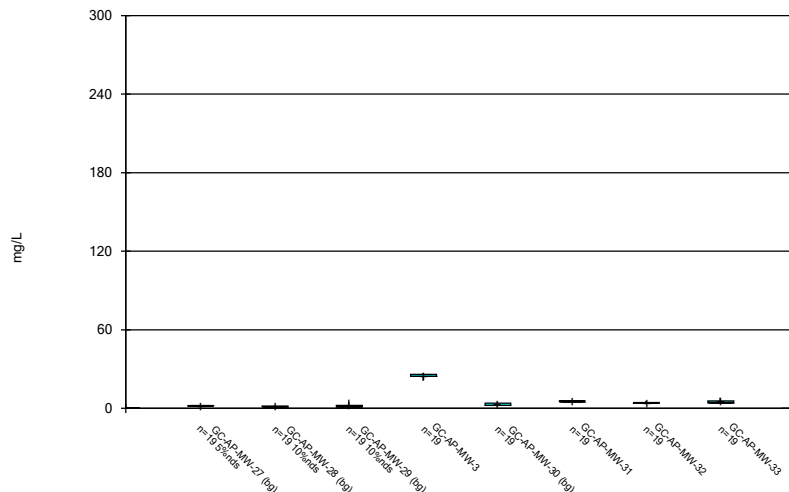
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Box & Whiskers Plot



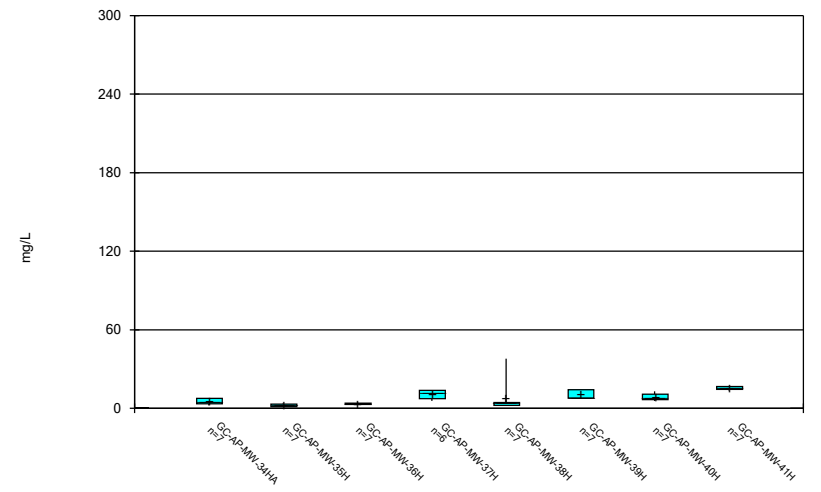
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Box & Whiskers Plot



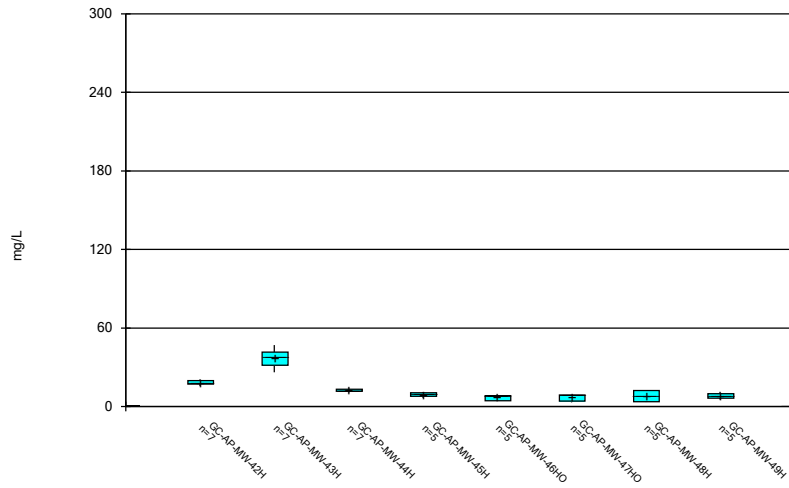
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Box & Whiskers Plot



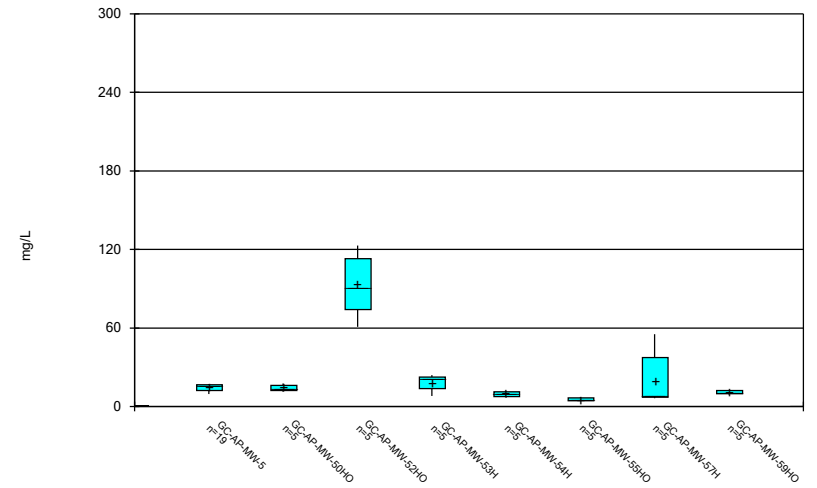
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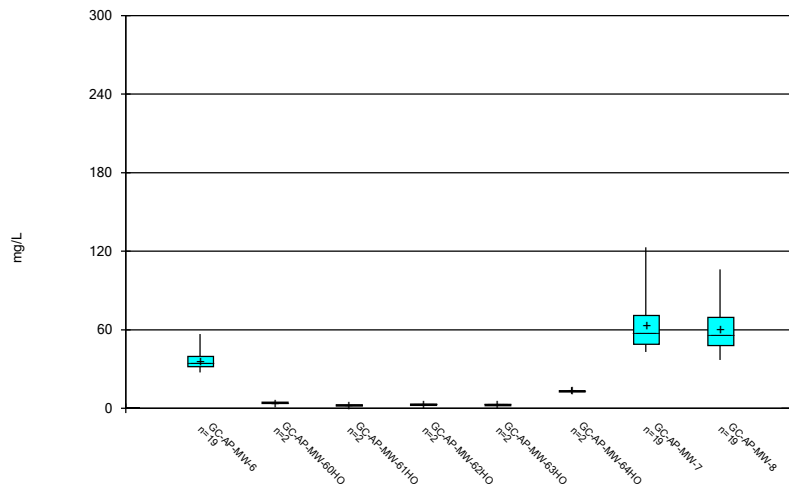
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Box & Whiskers Plot



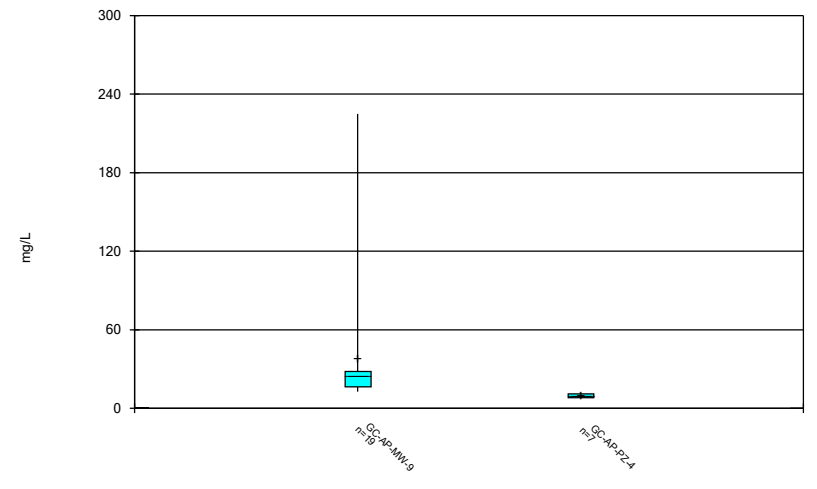
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



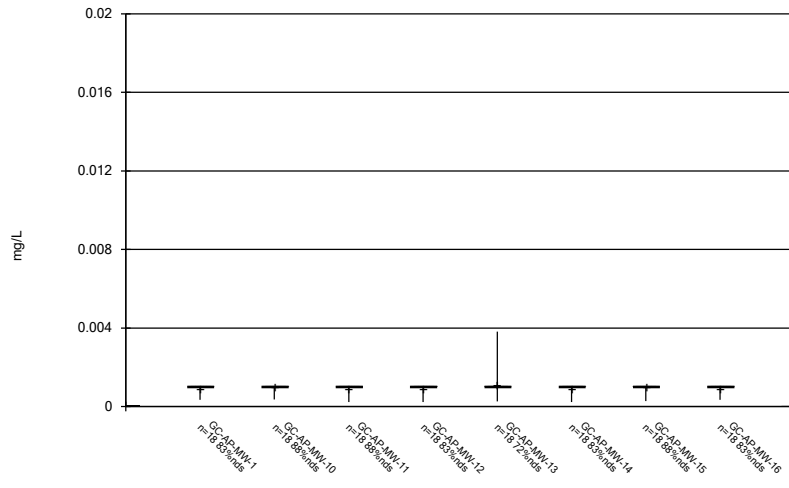
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Box & Whiskers Plot



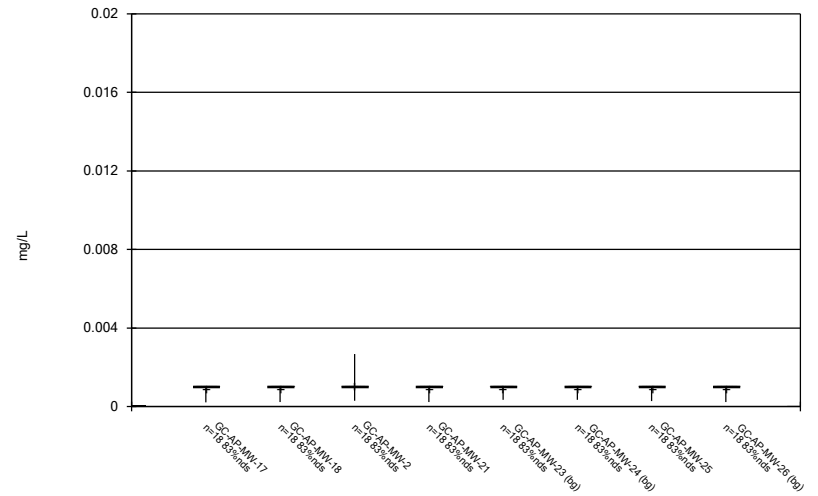
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Box & Whiskers Plot



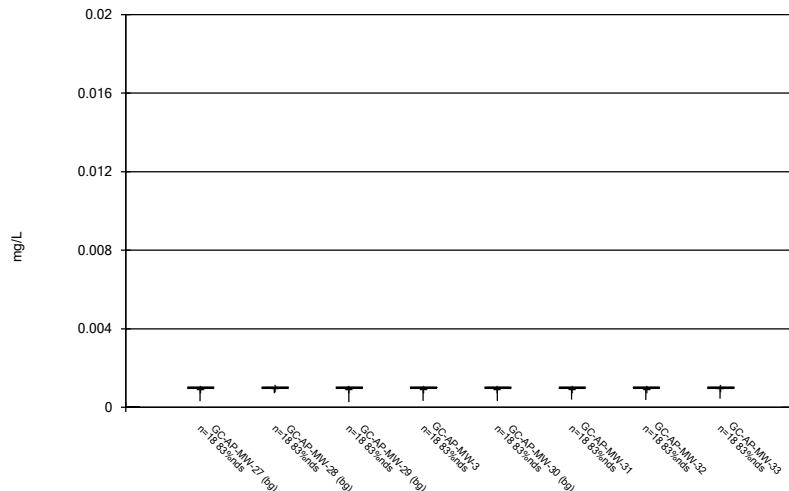
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Box & Whiskers Plot



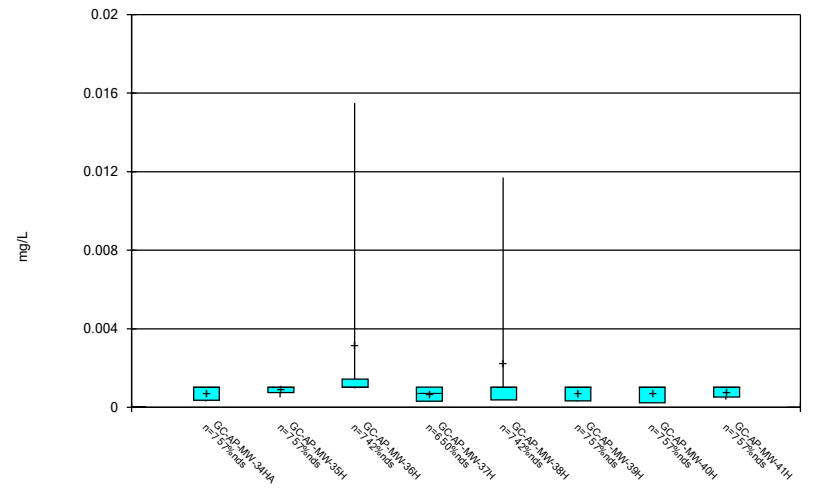
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Box & Whiskers Plot



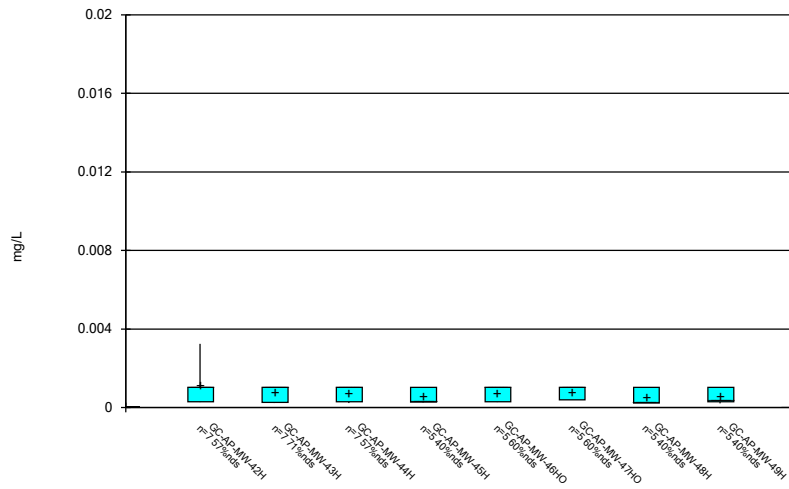
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Box & Whiskers Plot



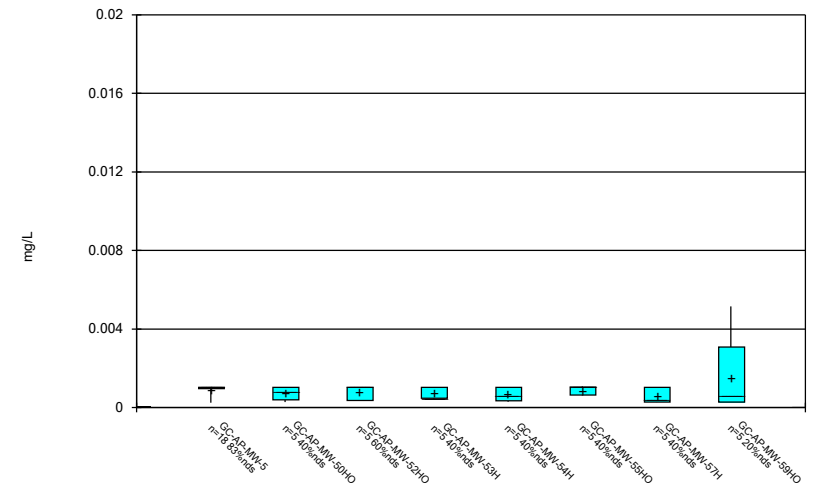
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Box & Whiskers Plot



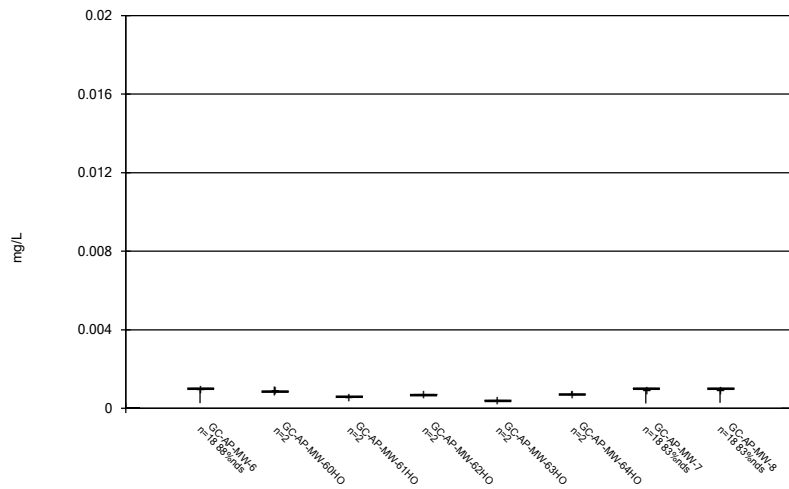
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Box & Whiskers Plot



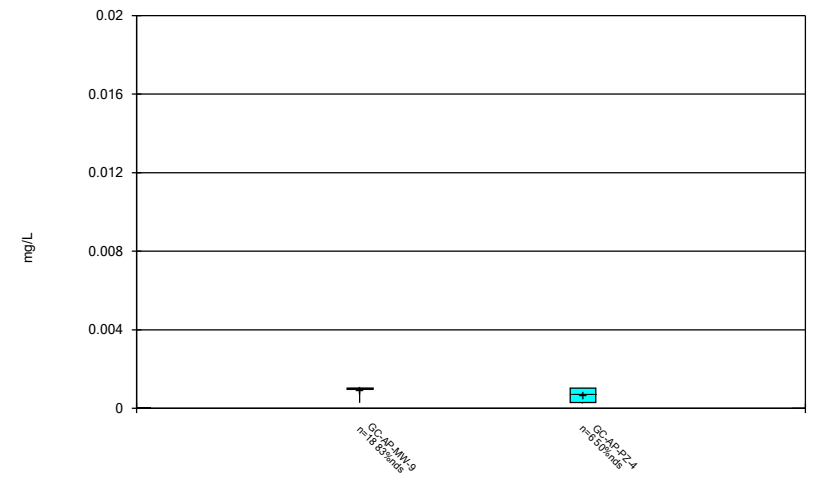
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Box & Whiskers Plot



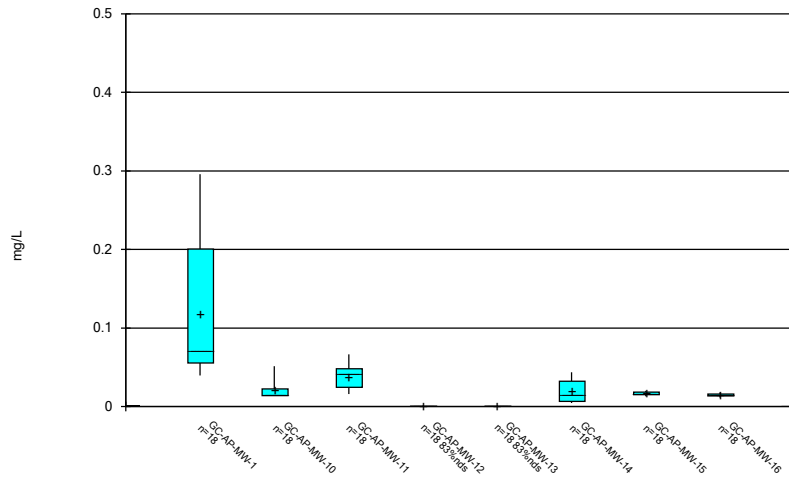
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Box & Whiskers Plot



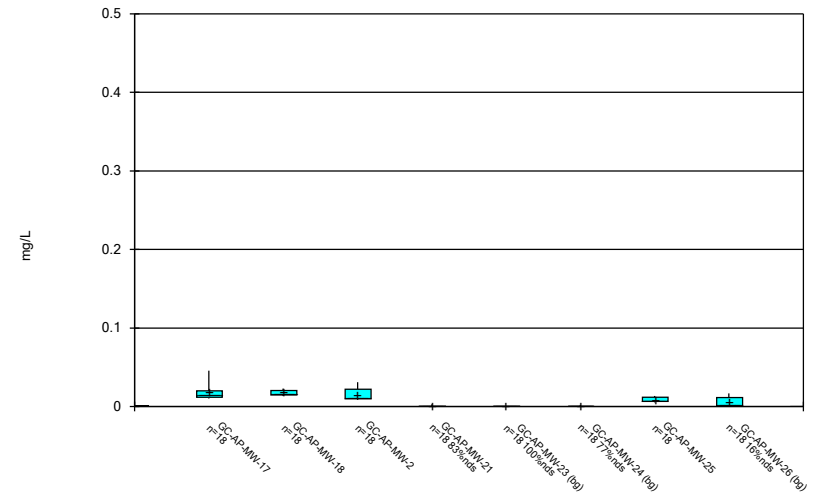
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Box & Whiskers Plot



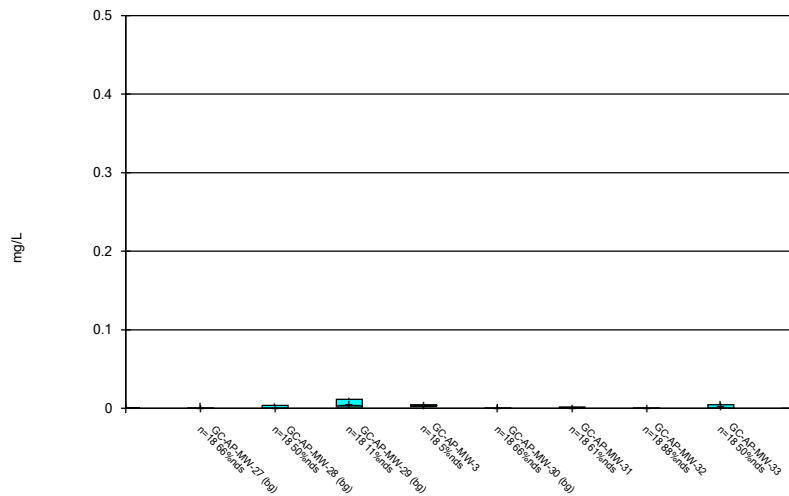
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Box & Whiskers Plot



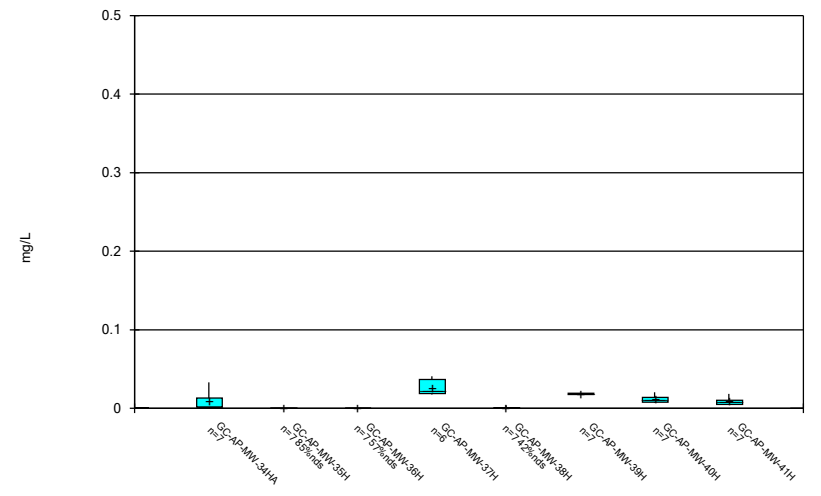
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Box & Whiskers Plot



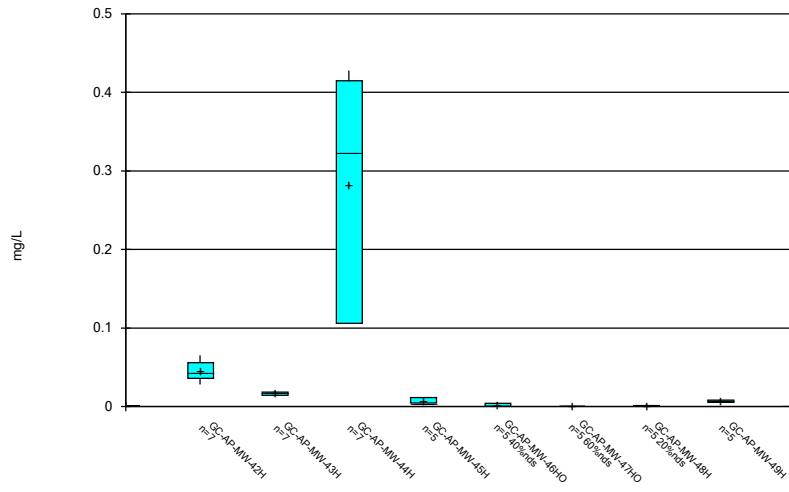
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Box & Whiskers Plot



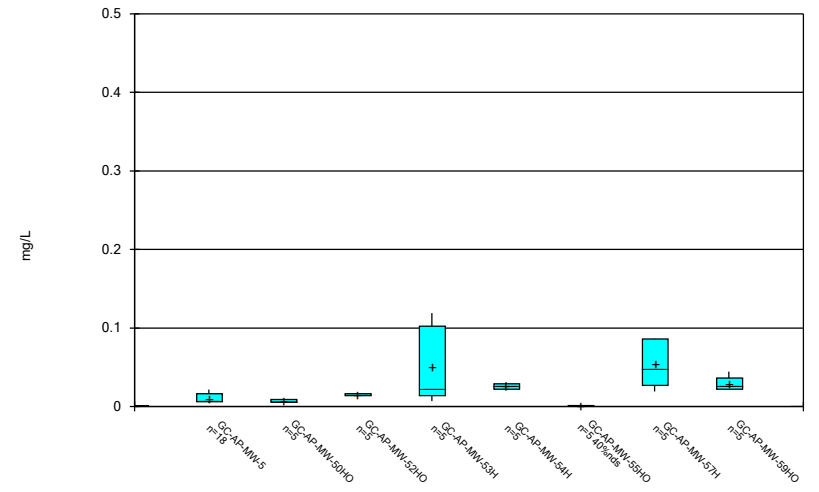
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Box & Whiskers Plot



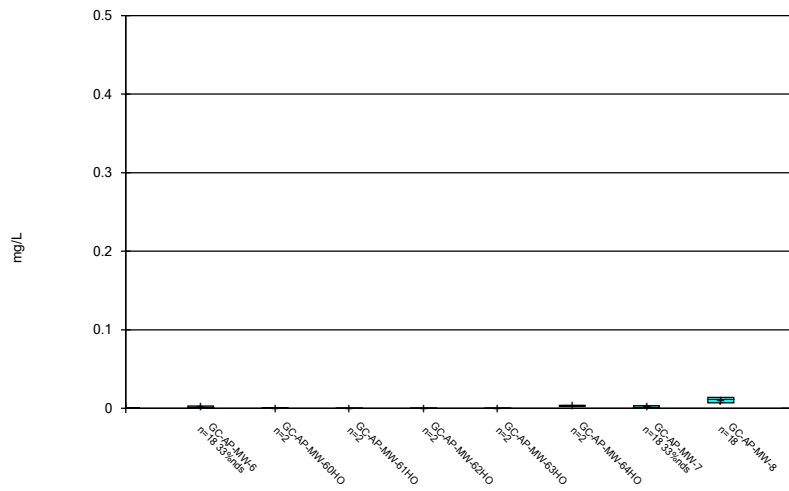
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Box & Whiskers Plot



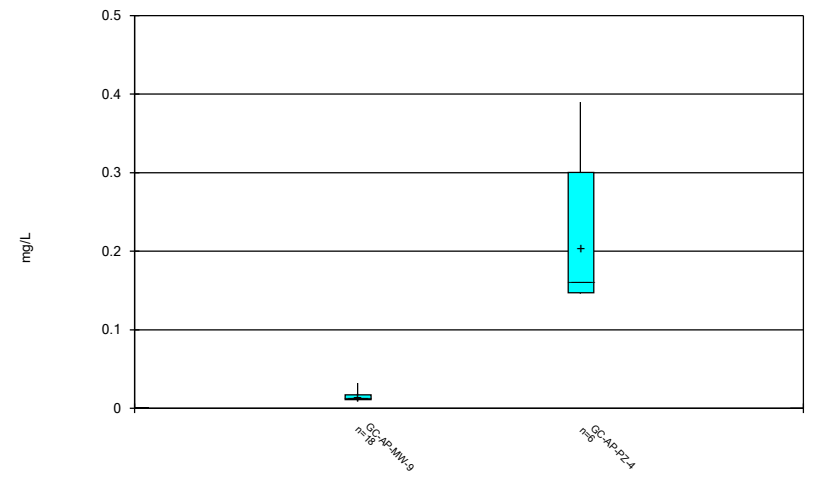
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Box & Whiskers Plot



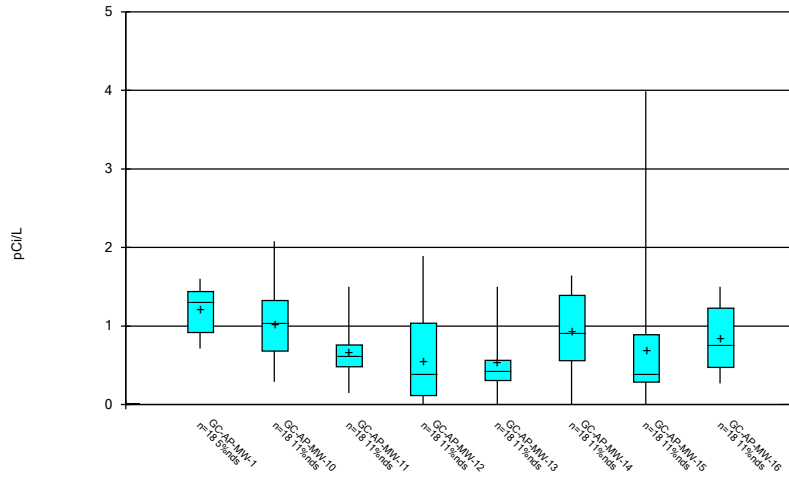
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Box & Whiskers Plot



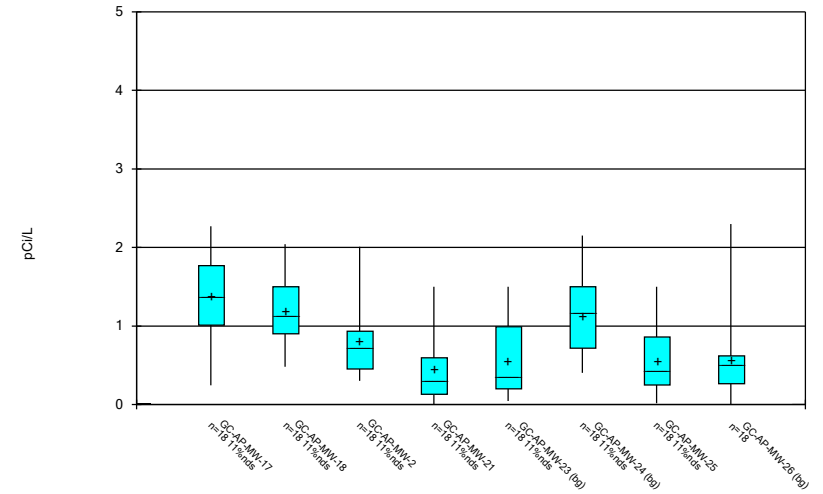
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Box & Whiskers Plot



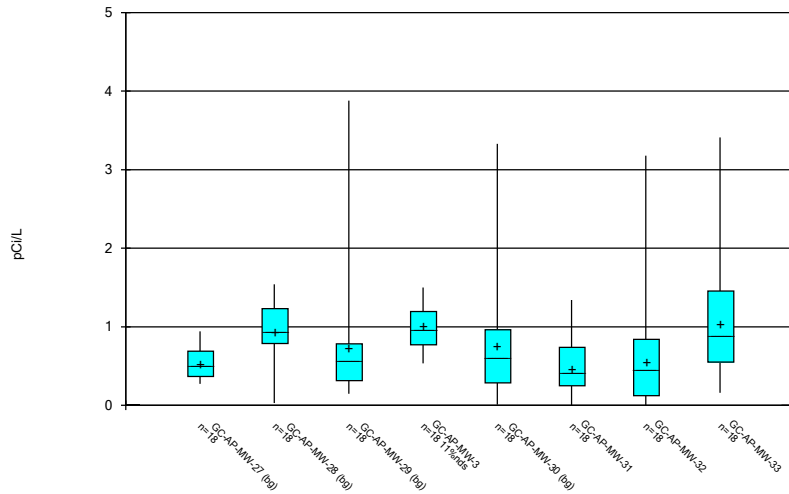
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Box & Whiskers Plot



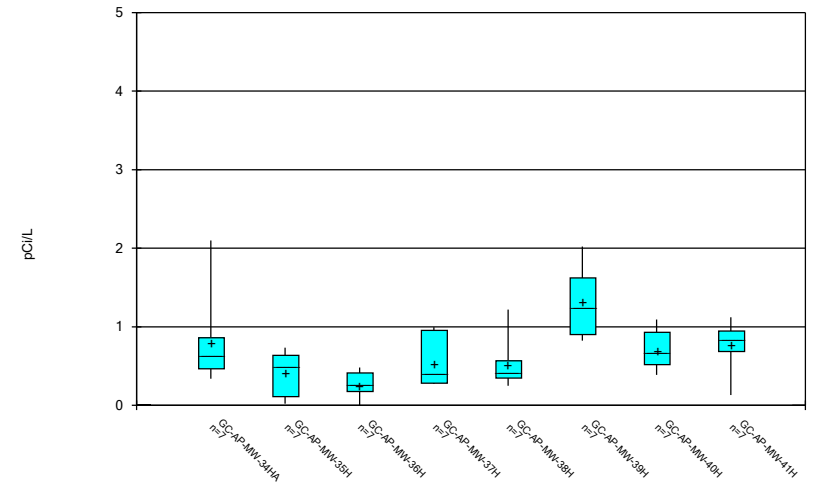
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Box & Whiskers Plot



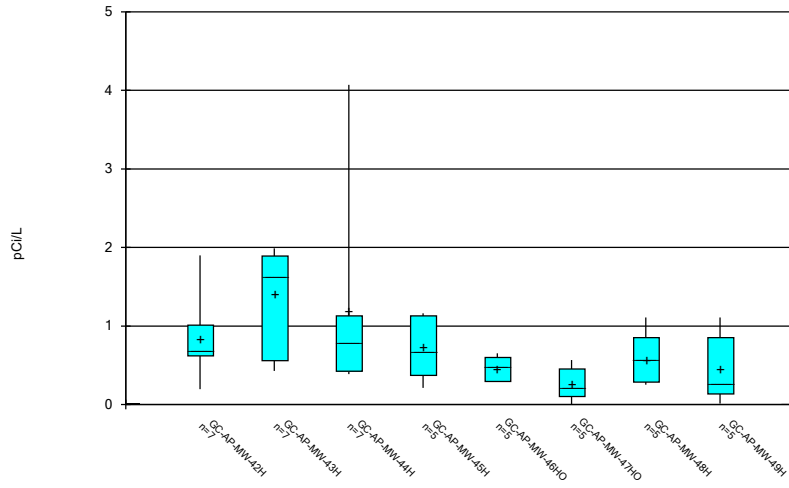
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Box & Whiskers Plot



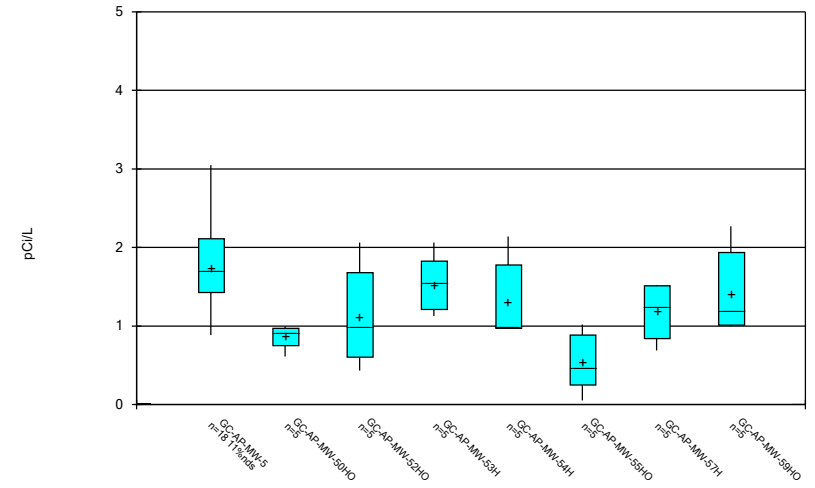
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Box & Whiskers Plot



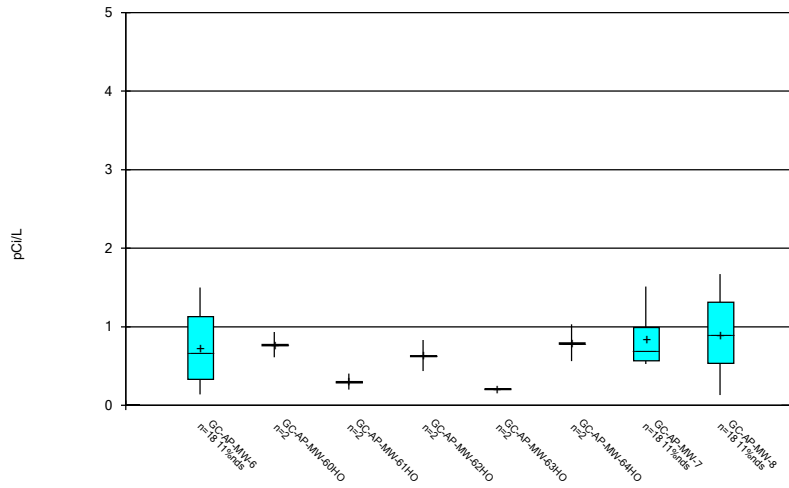
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Box & Whiskers Plot



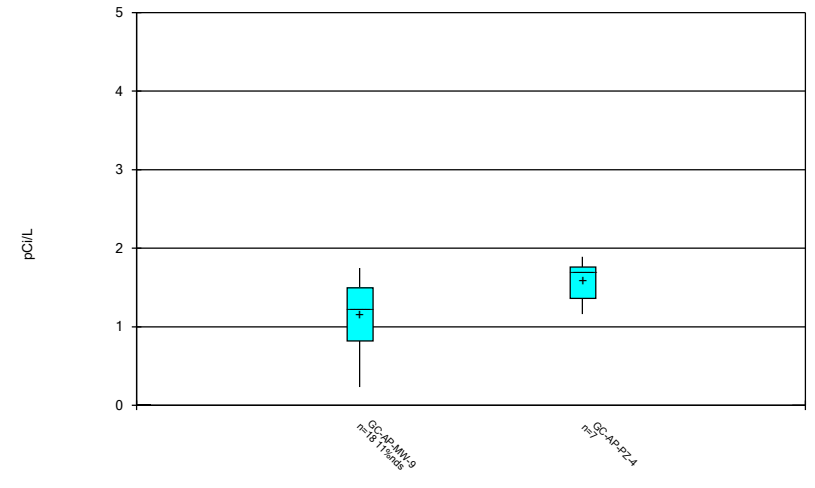
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Box & Whiskers Plot



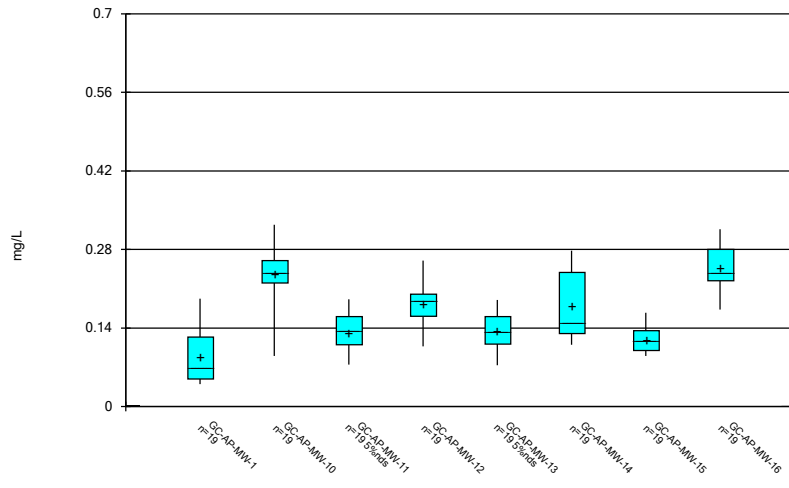
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Box & Whiskers Plot



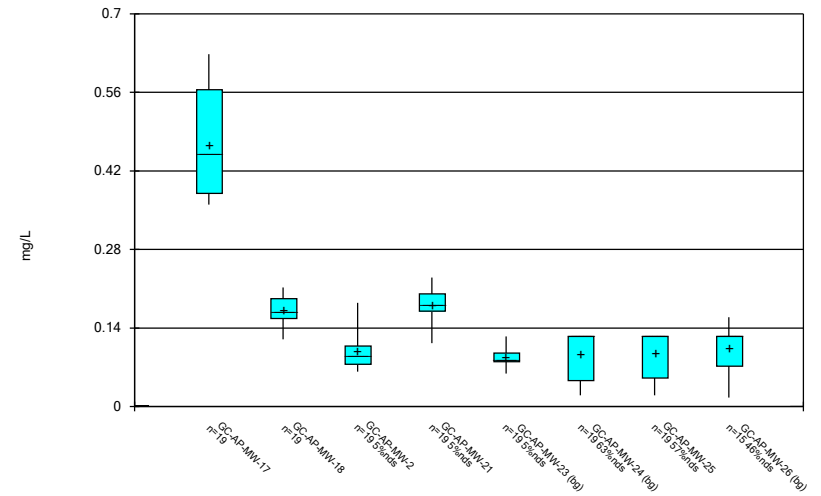
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Box & Whiskers Plot



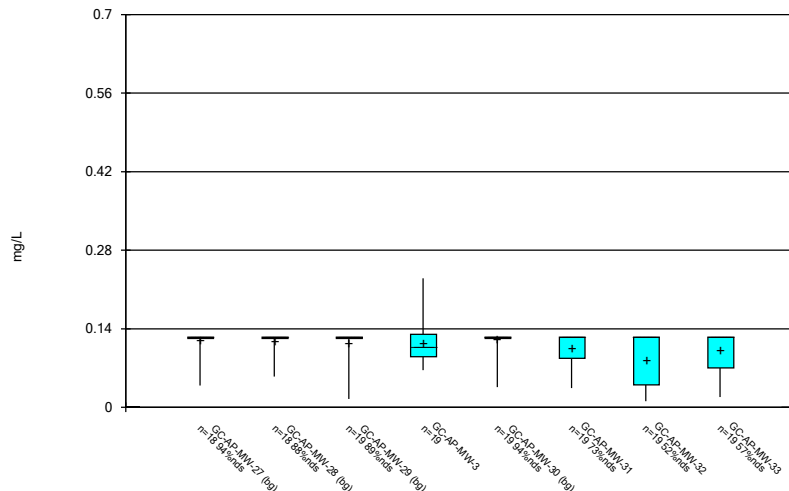
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Box & Whiskers Plot



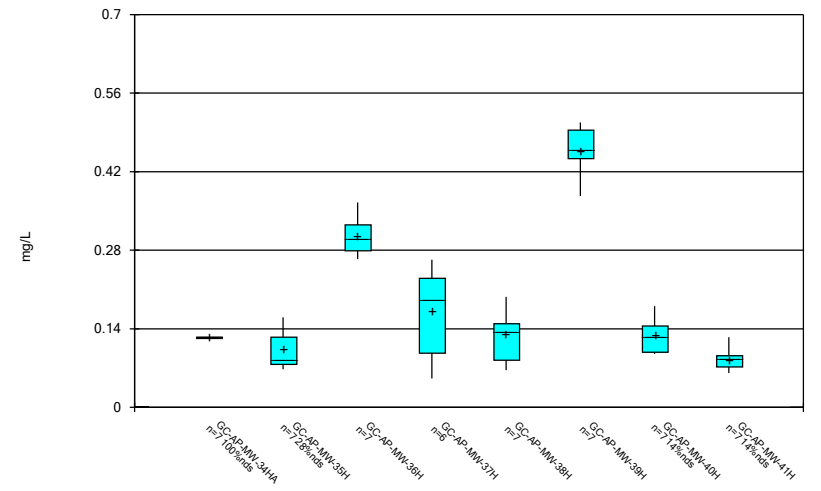
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Box & Whiskers Plot



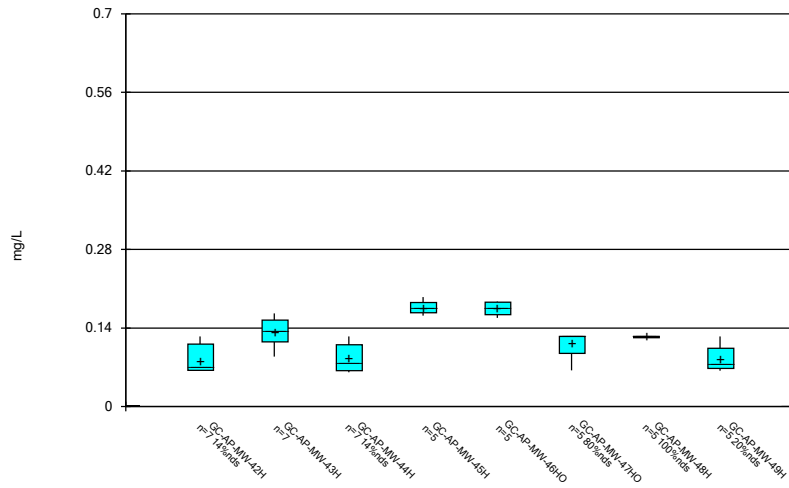
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Box & Whiskers Plot



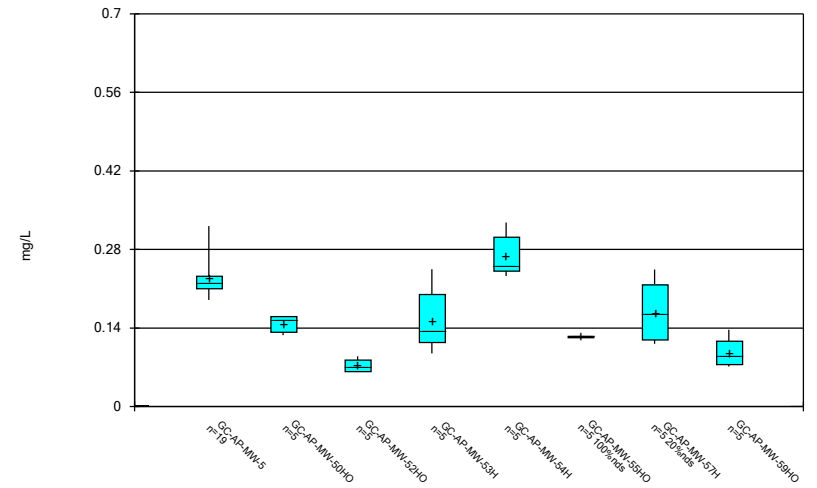
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Box & Whiskers Plot



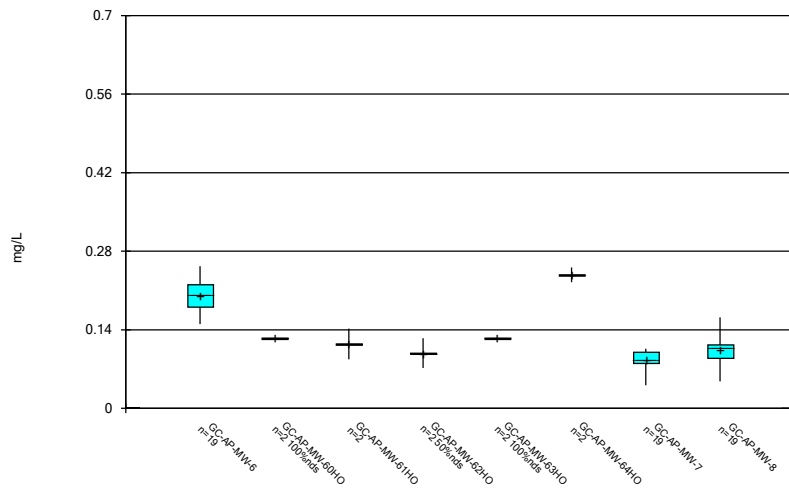
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Box & Whiskers Plot



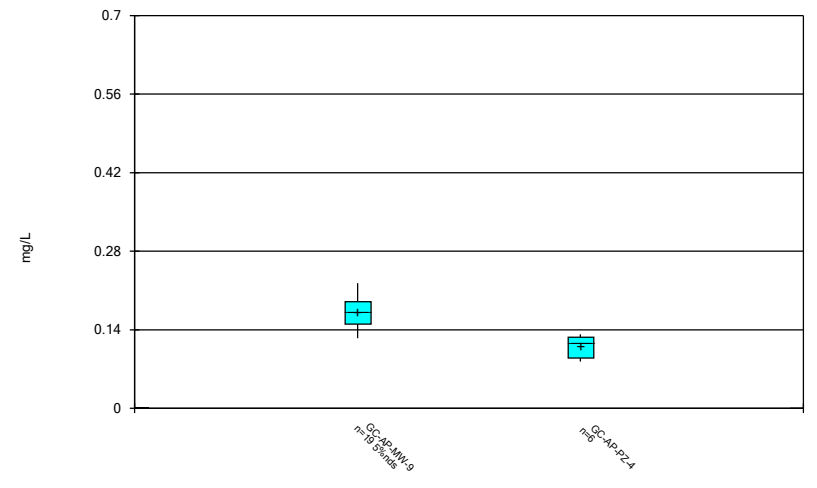
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Box & Whiskers Plot



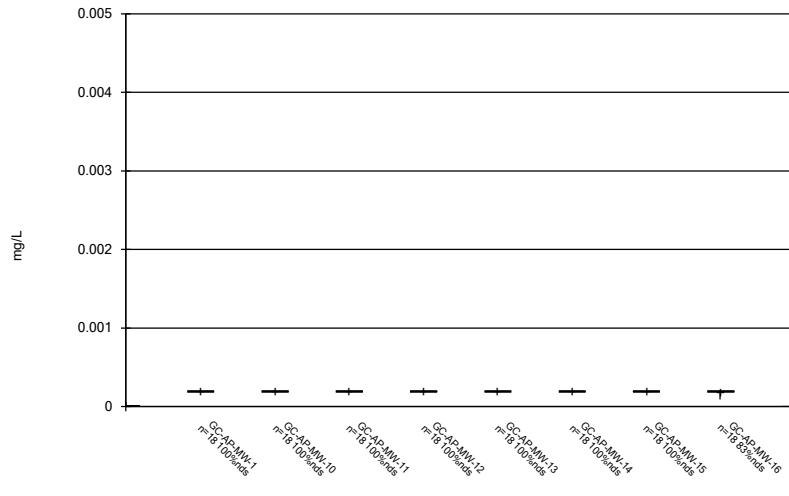
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Box & Whiskers Plot



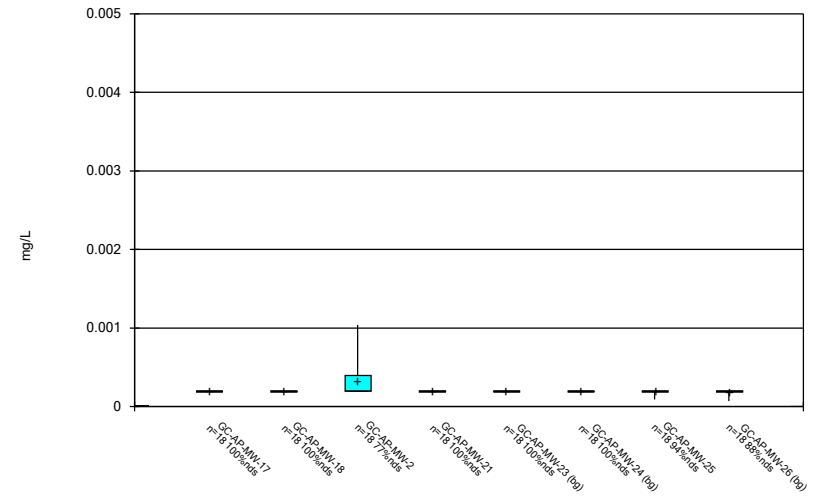
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Box & Whiskers Plot



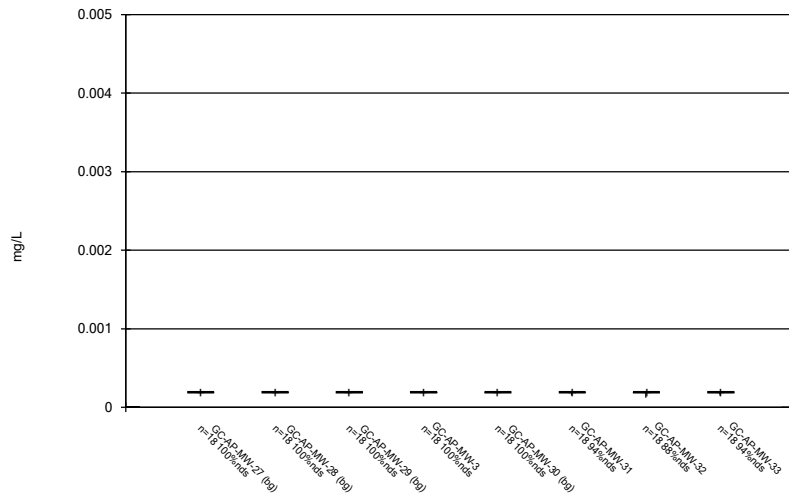
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Box & Whiskers Plot



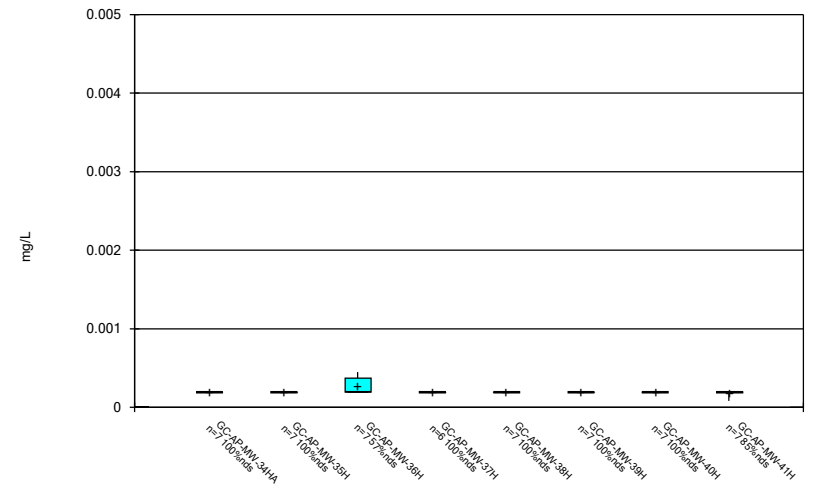
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Box & Whiskers Plot



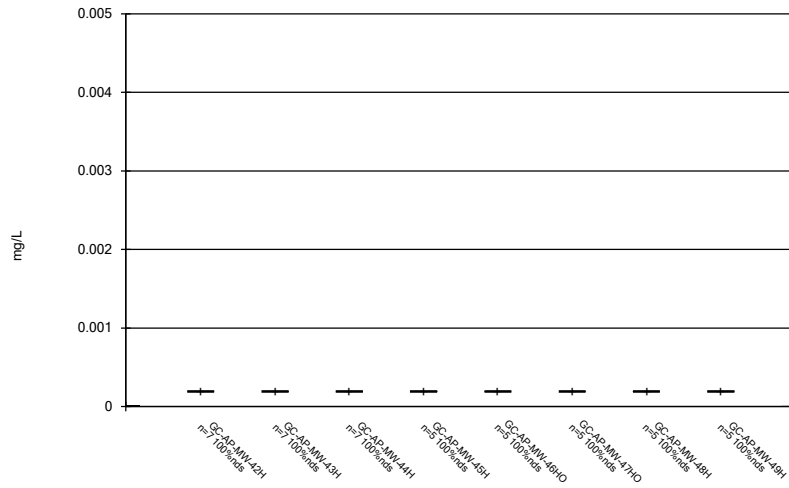
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Box & Whiskers Plot



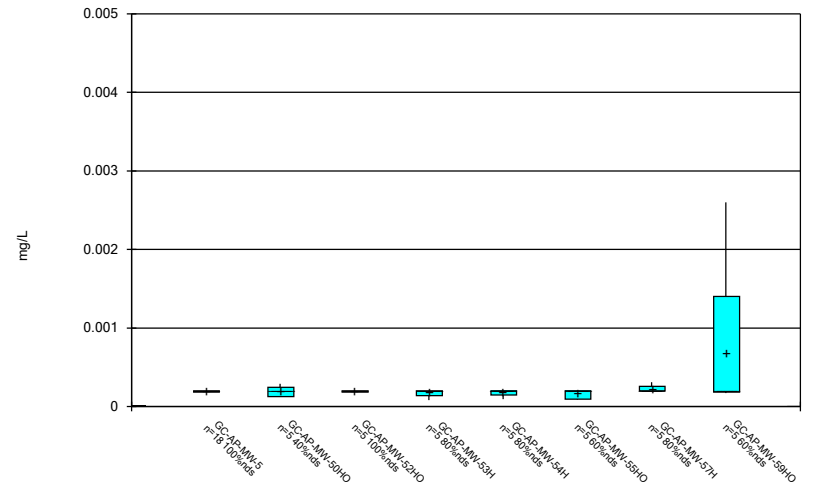
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Box & Whiskers Plot



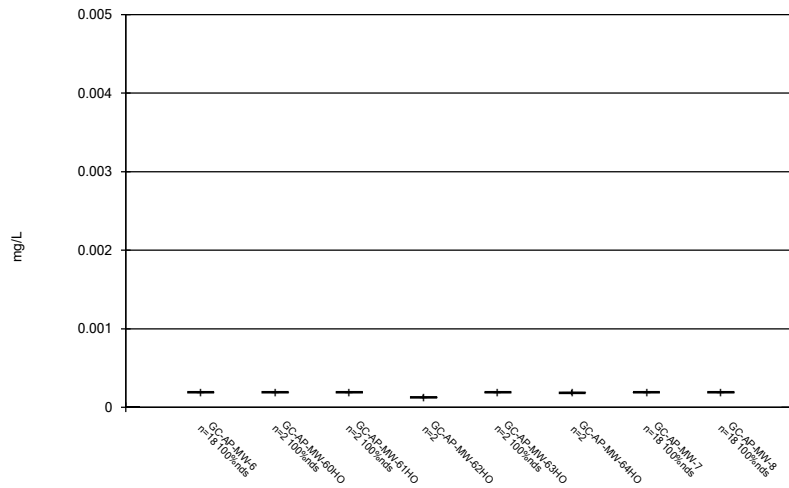
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Box & Whiskers Plot



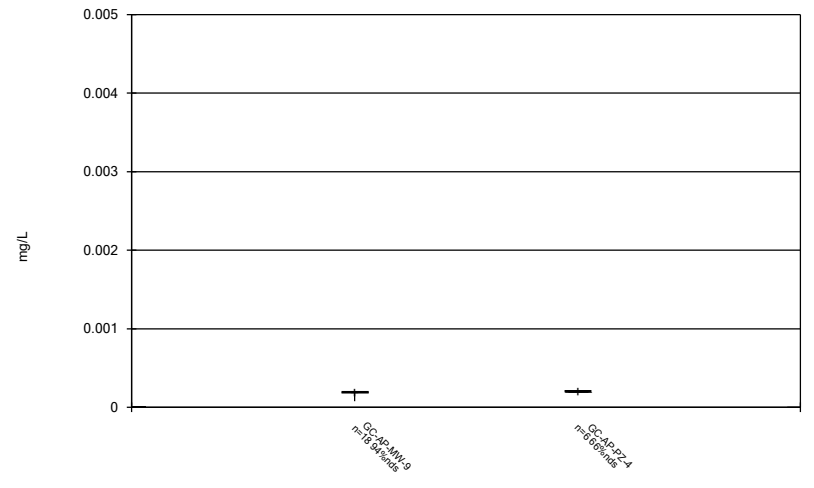
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Box & Whiskers Plot



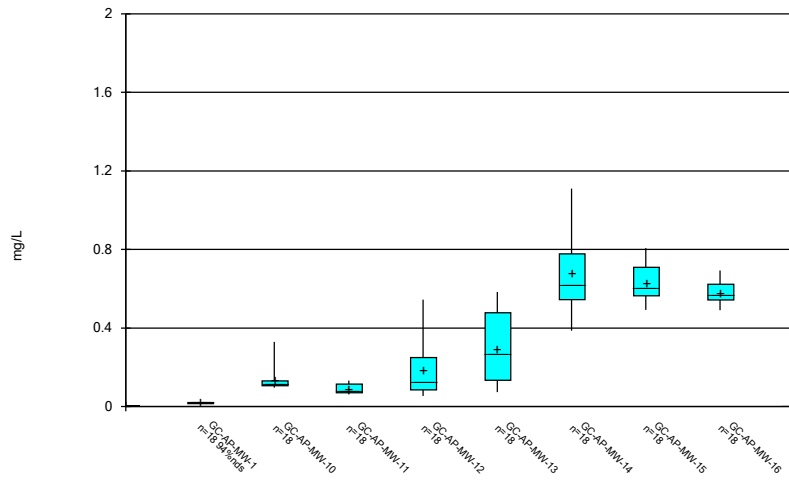
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Box & Whiskers Plot



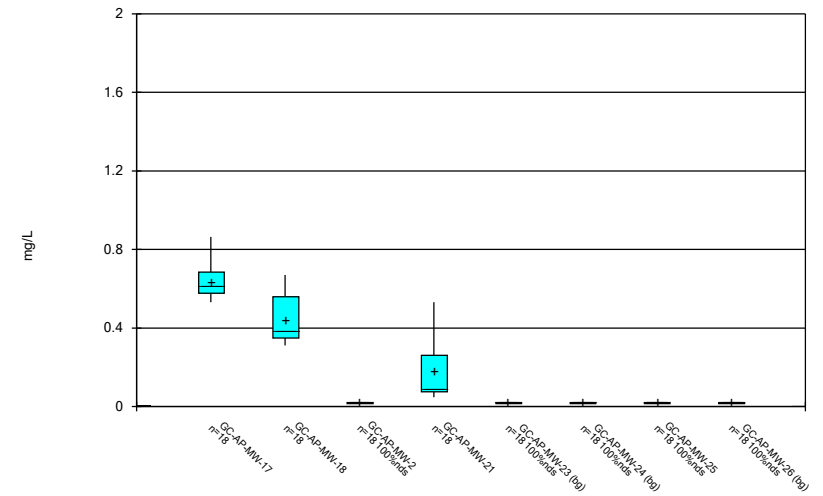
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Box & Whiskers Plot



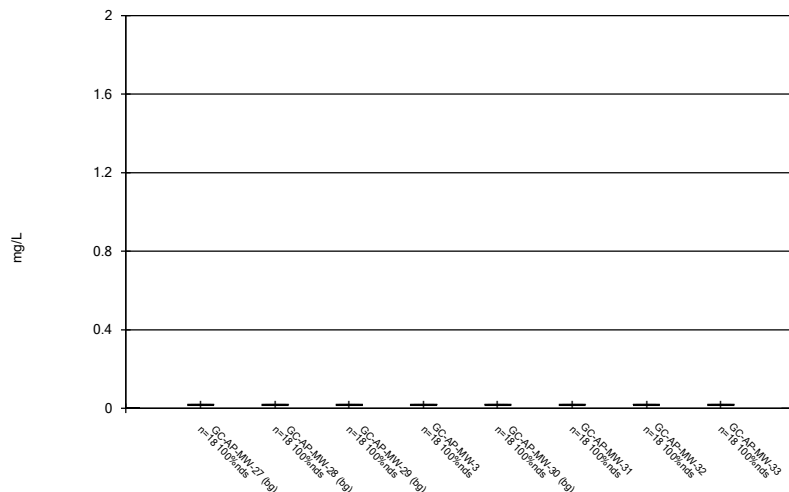
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Box & Whiskers Plot



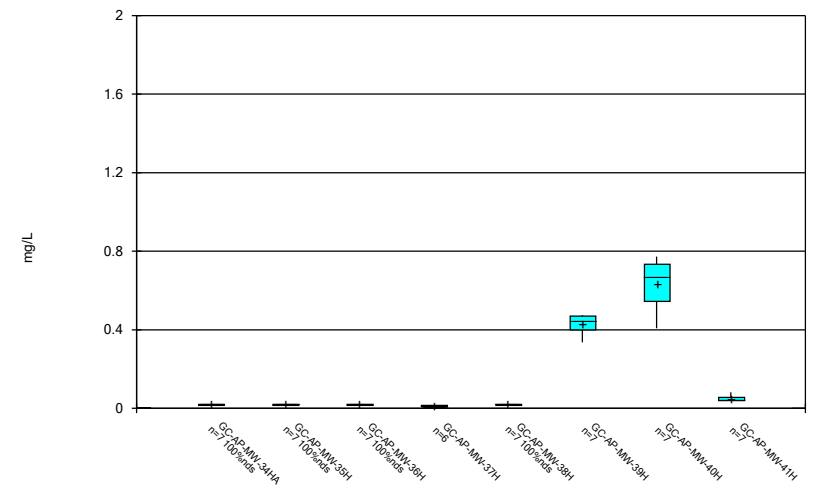
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Box & Whiskers Plot



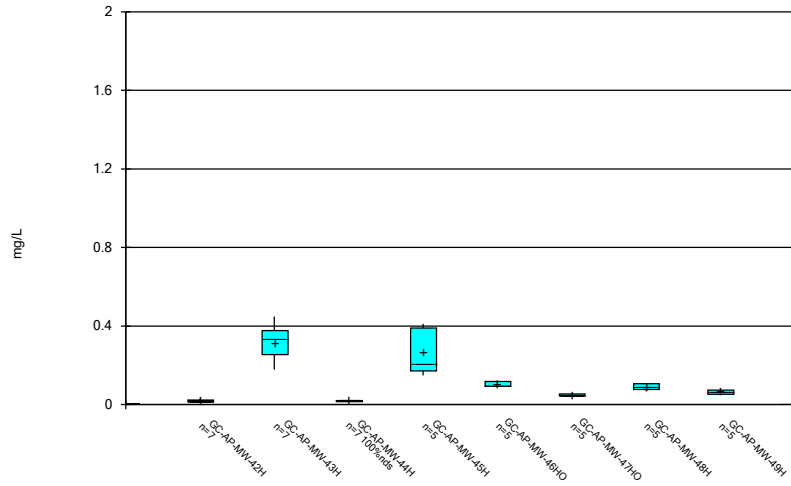
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Box & Whiskers Plot



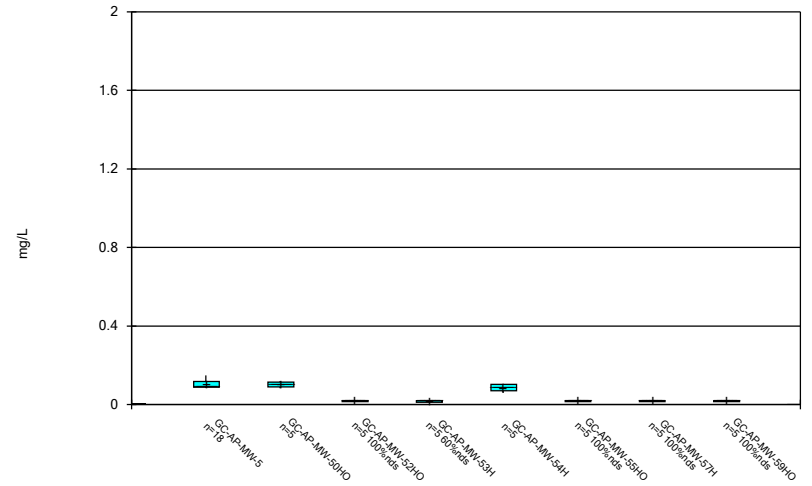
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Box & Whiskers Plot



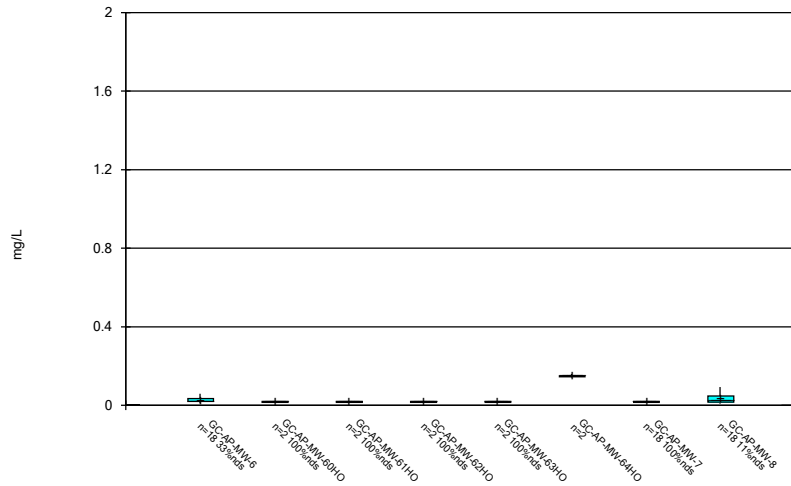
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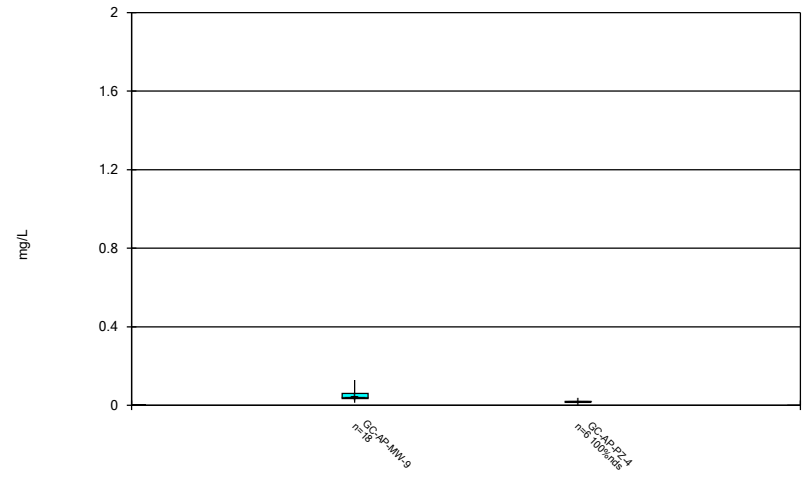
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Box & Whiskers Plot



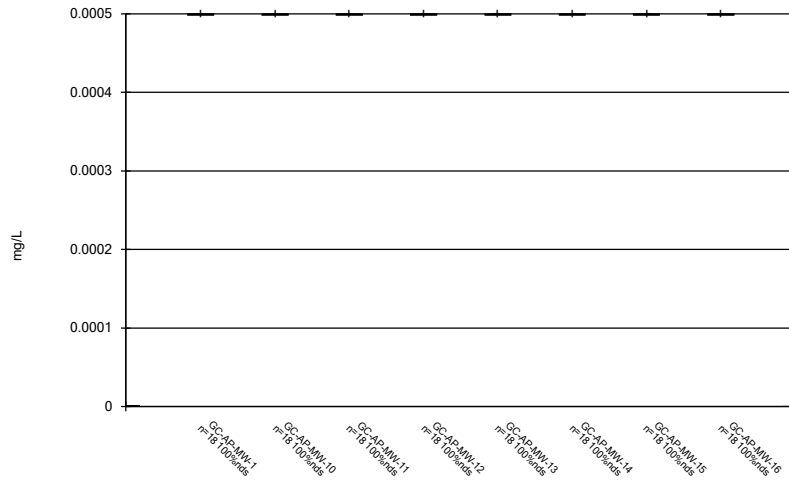
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Box & Whiskers Plot



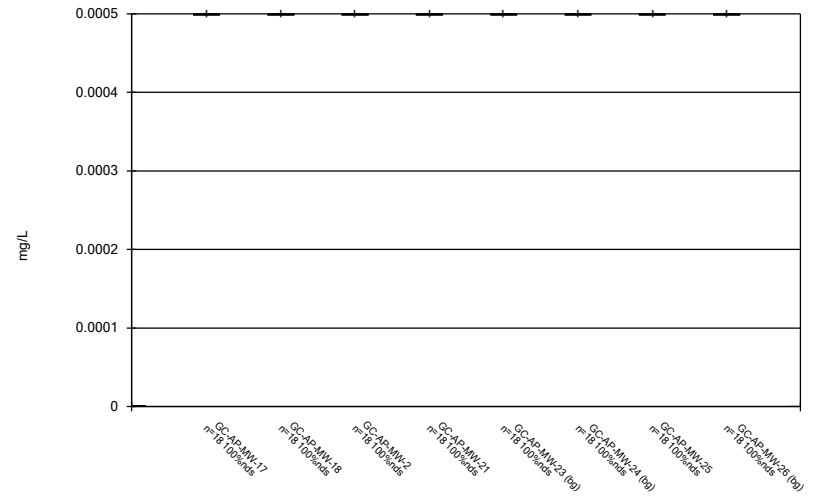
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Box & Whiskers Plot



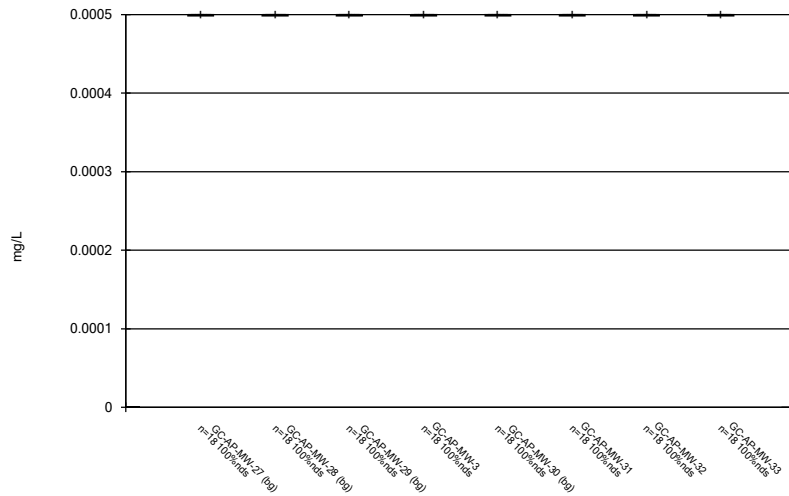
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Box & Whiskers Plot



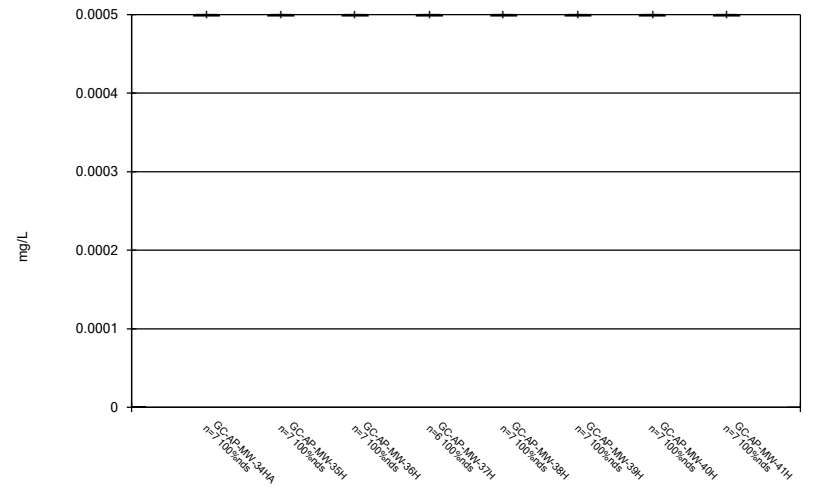
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Box & Whiskers Plot



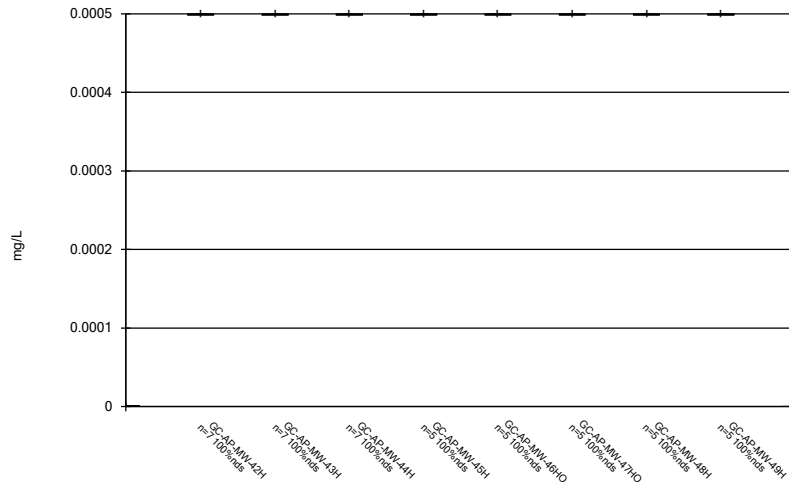
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Box & Whiskers Plot



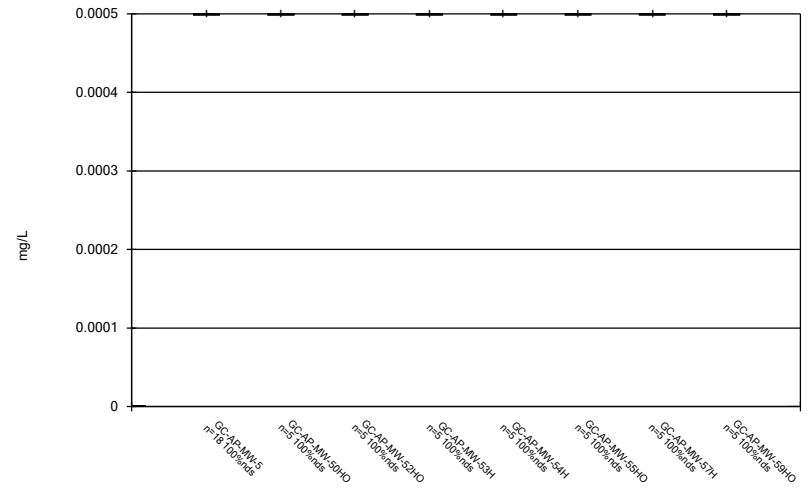
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Box & Whiskers Plot



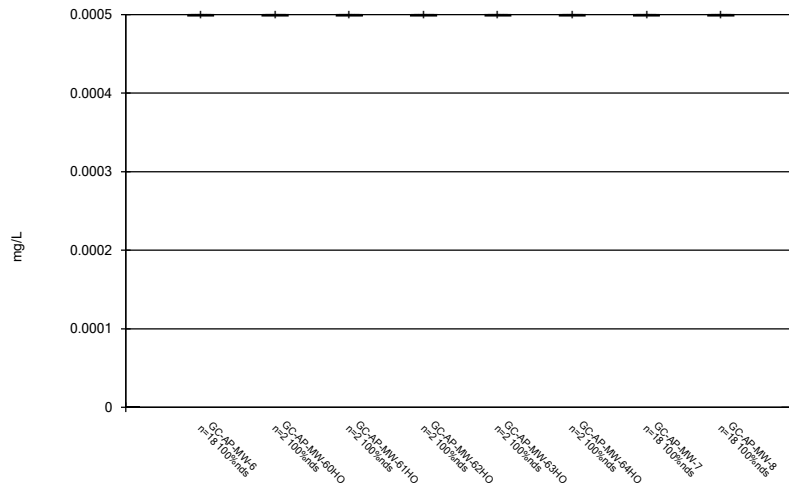
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Box & Whiskers Plot



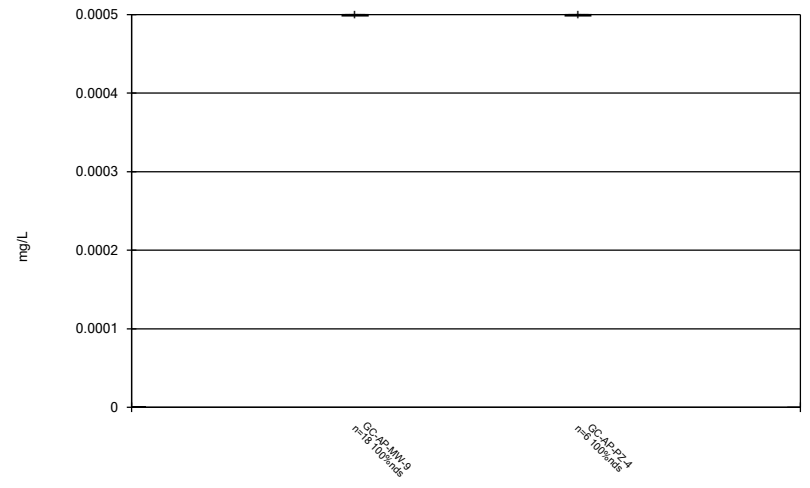
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Box & Whiskers Plot



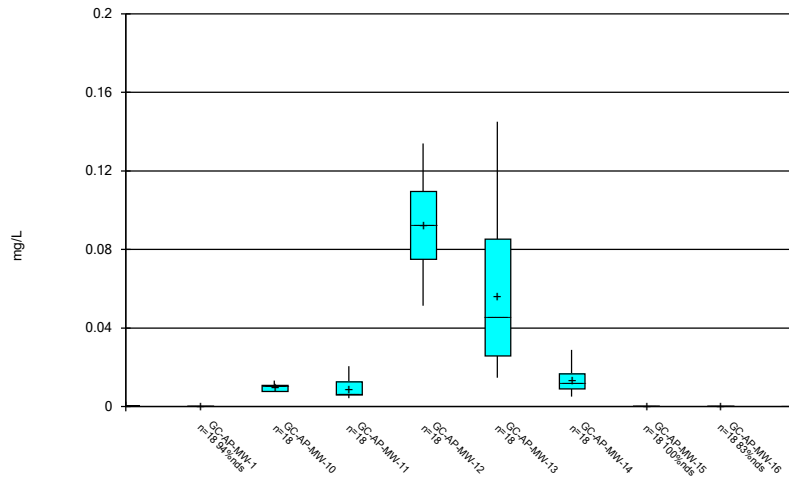
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Box & Whiskers Plot



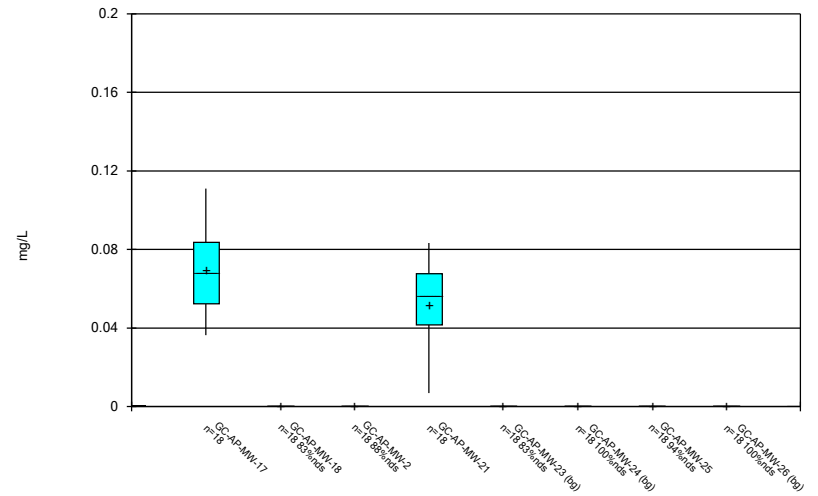
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Box & Whiskers Plot



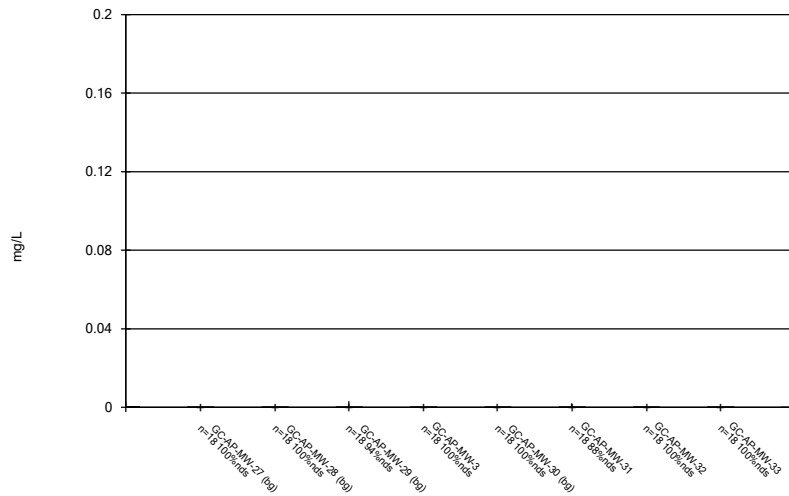
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Box & Whiskers Plot



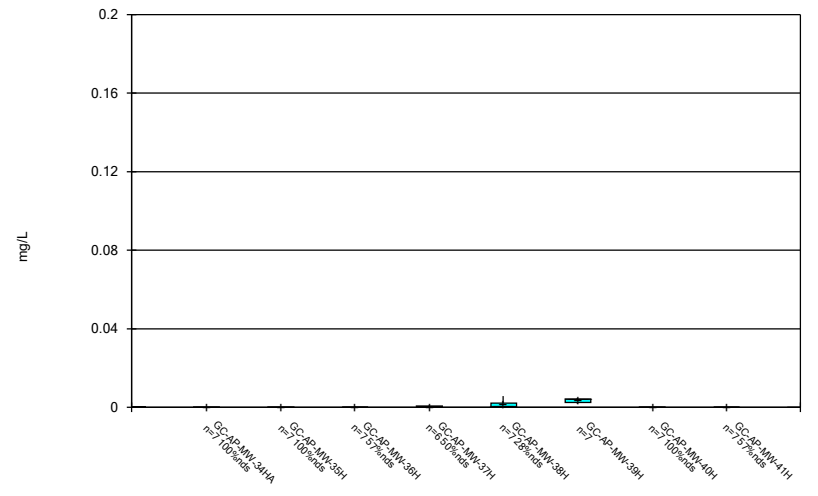
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Box & Whiskers Plot



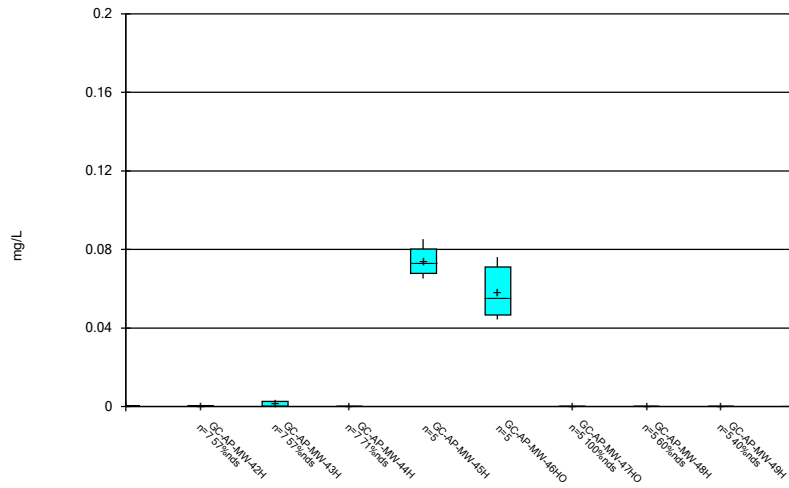
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Box & Whiskers Plot



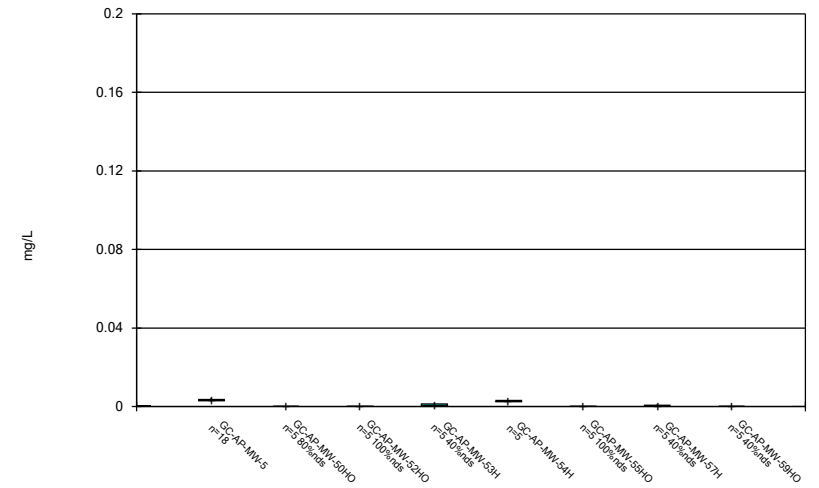
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



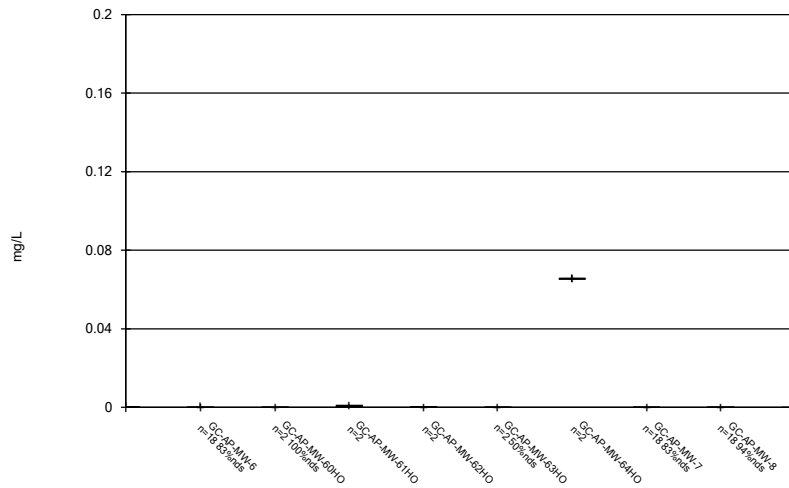
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Box & Whiskers Plot



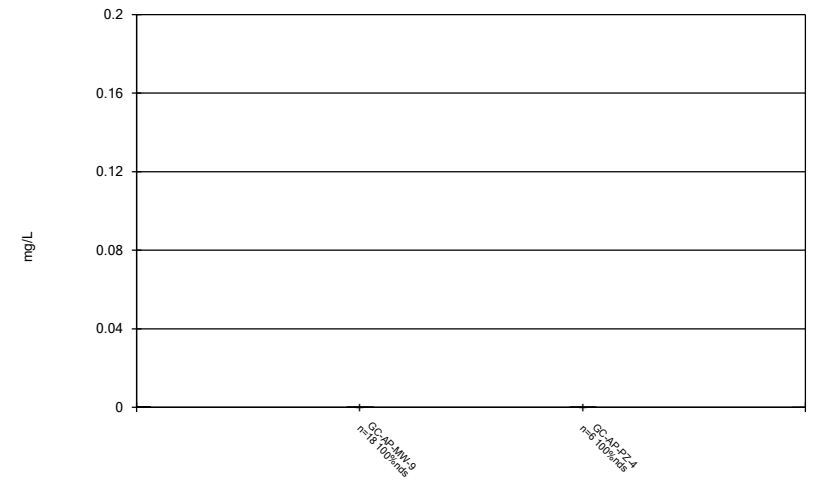
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Box & Whiskers Plot



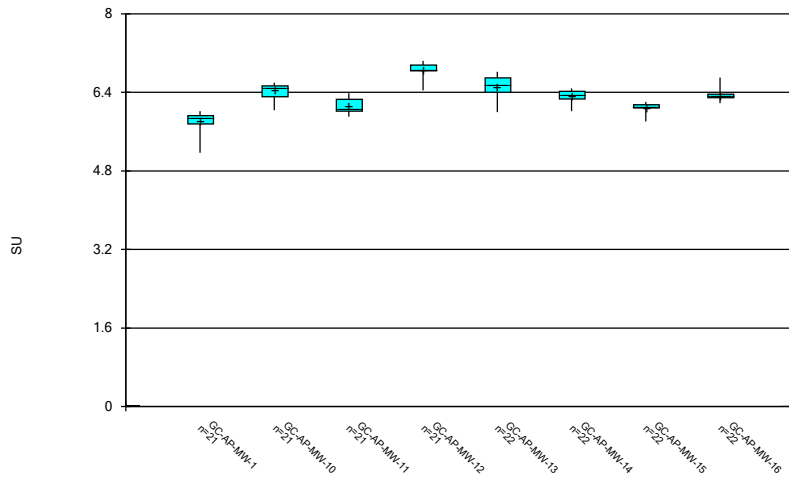
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Box & Whiskers Plot



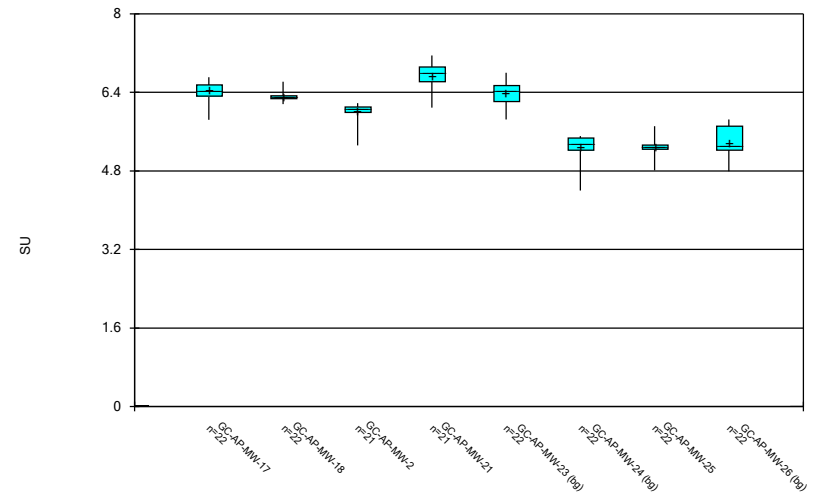
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Box & Whiskers Plot



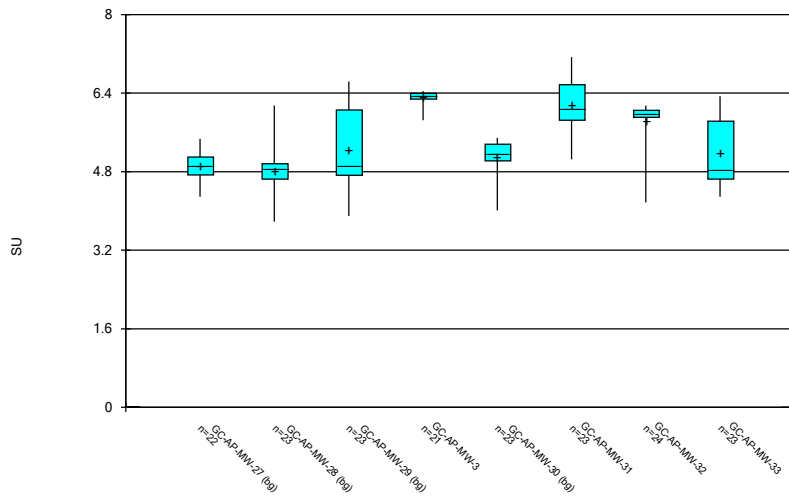
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



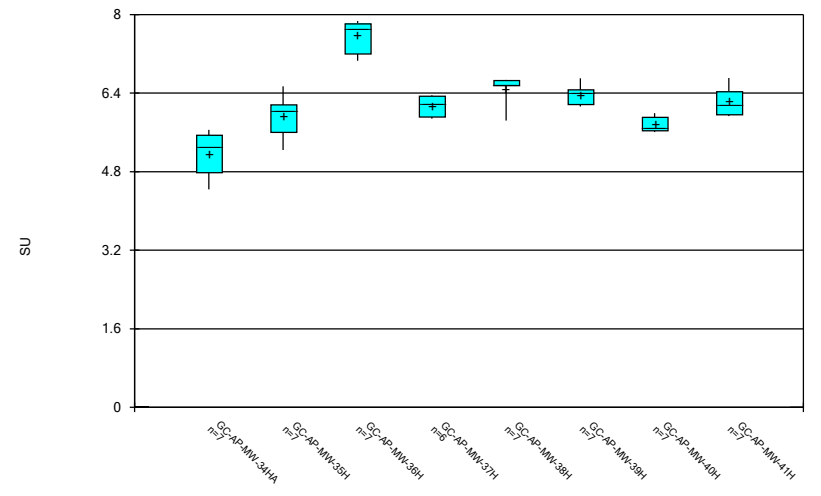
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Box & Whiskers Plot



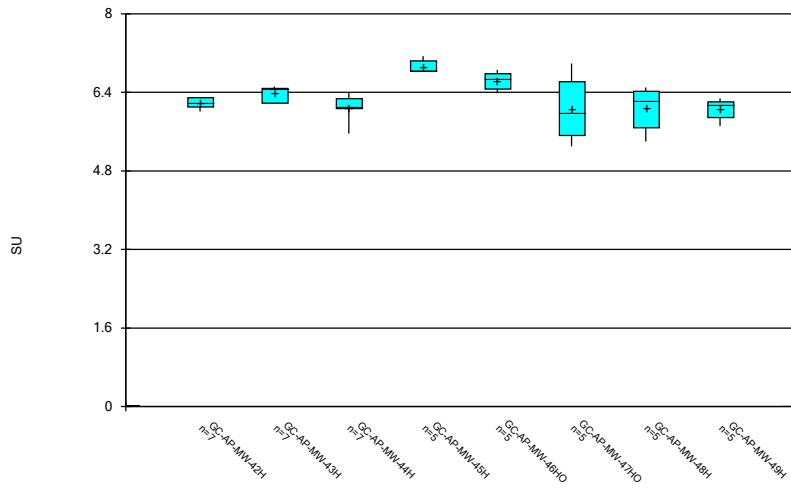
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Box & Whiskers Plot



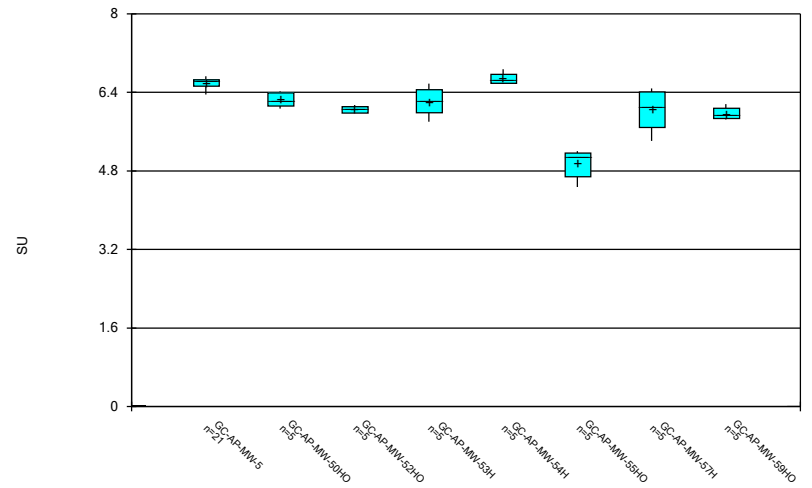
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Box & Whiskers Plot



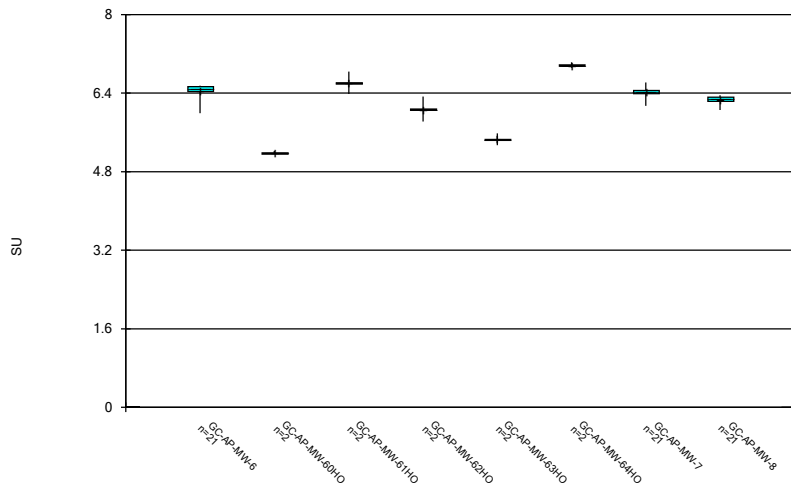
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Box & Whiskers Plot



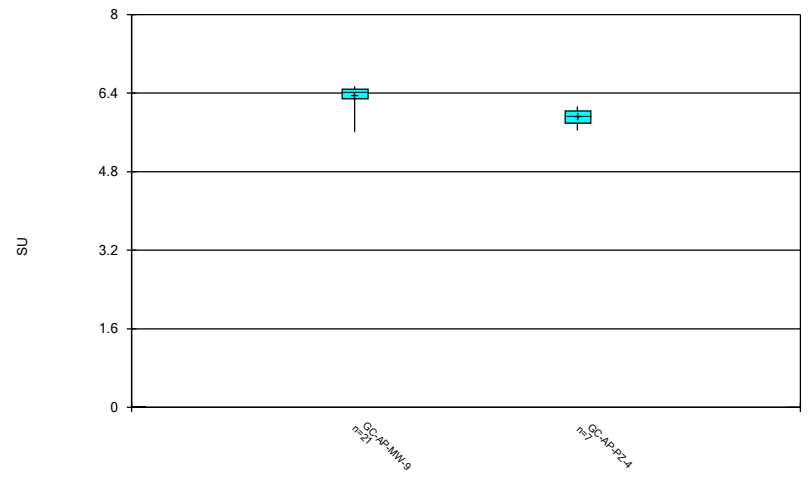
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Box & Whiskers Plot



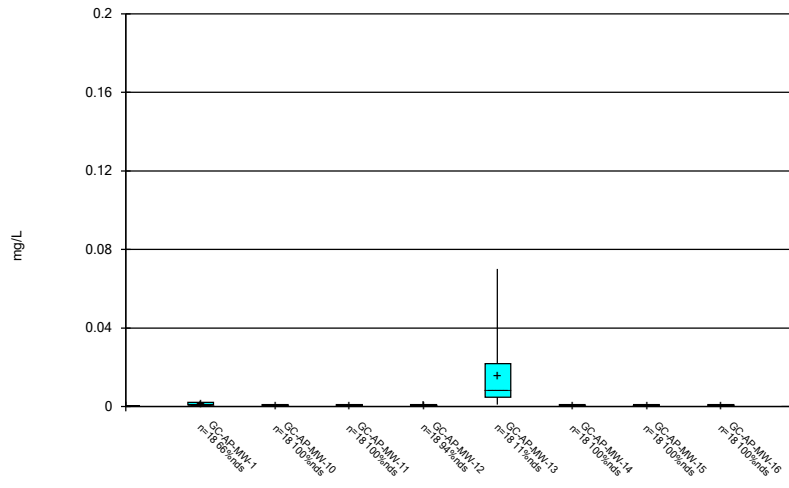
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Box & Whiskers Plot



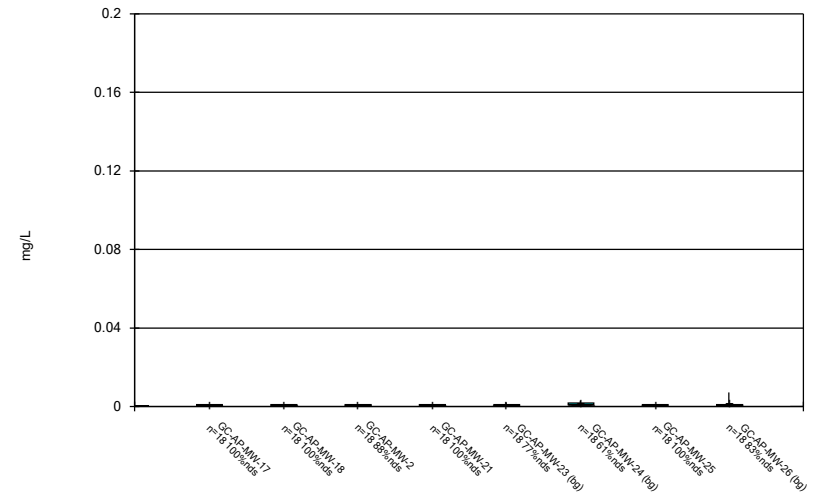
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Box & Whiskers Plot



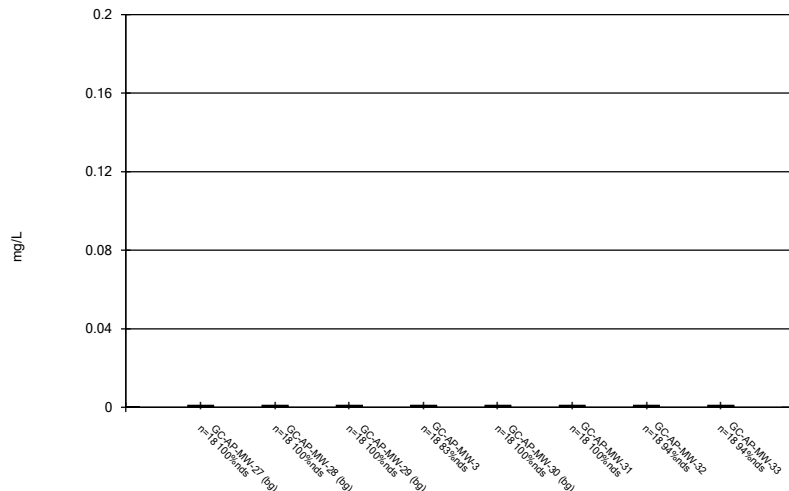
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Box & Whiskers Plot



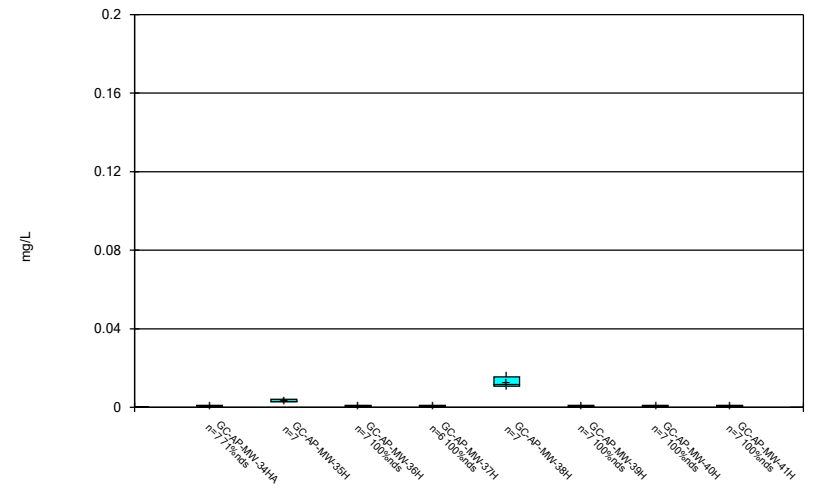
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Box & Whiskers Plot



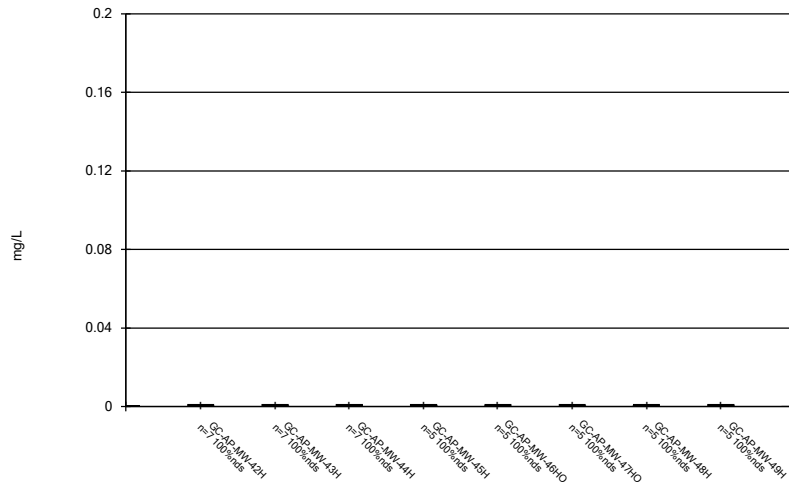
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Box & Whiskers Plot



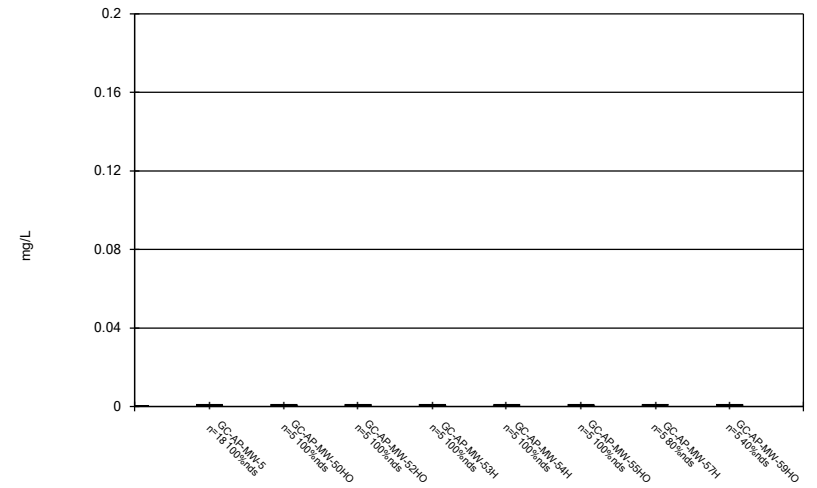
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Box & Whiskers Plot



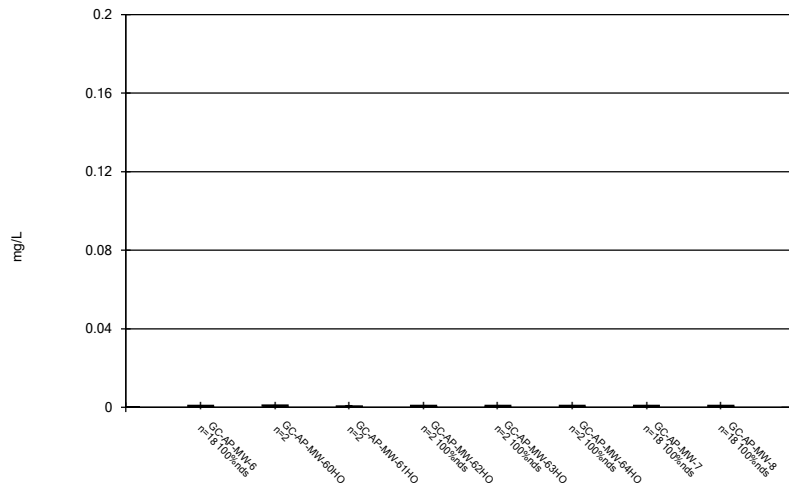
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Box & Whiskers Plot



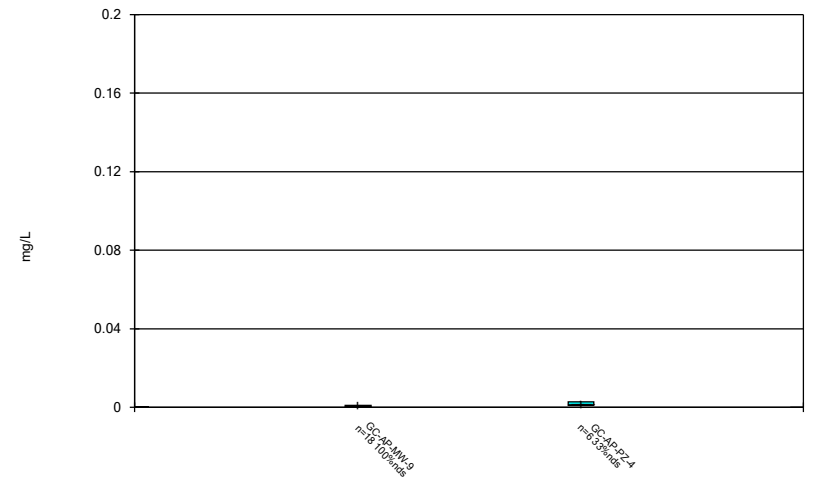
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Box & Whiskers Plot



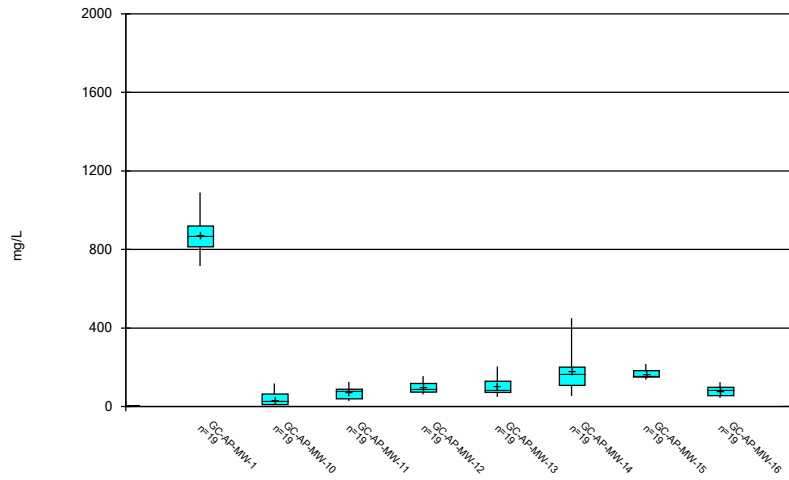
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Box & Whiskers Plot



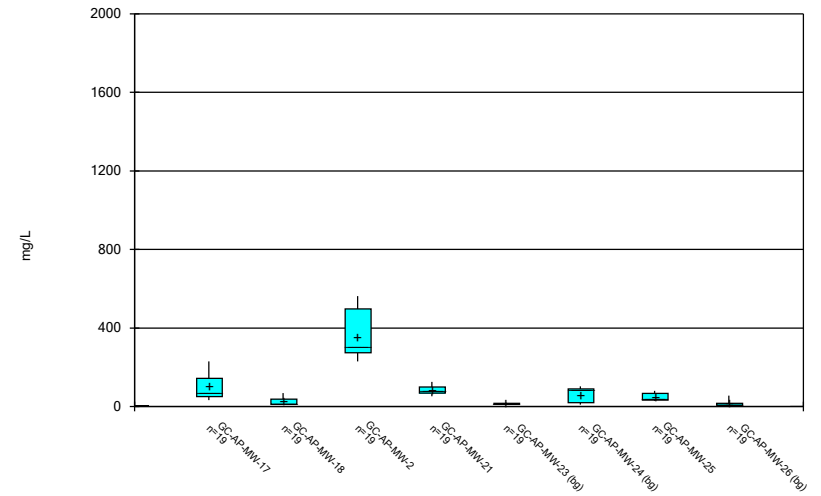
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Box & Whiskers Plot



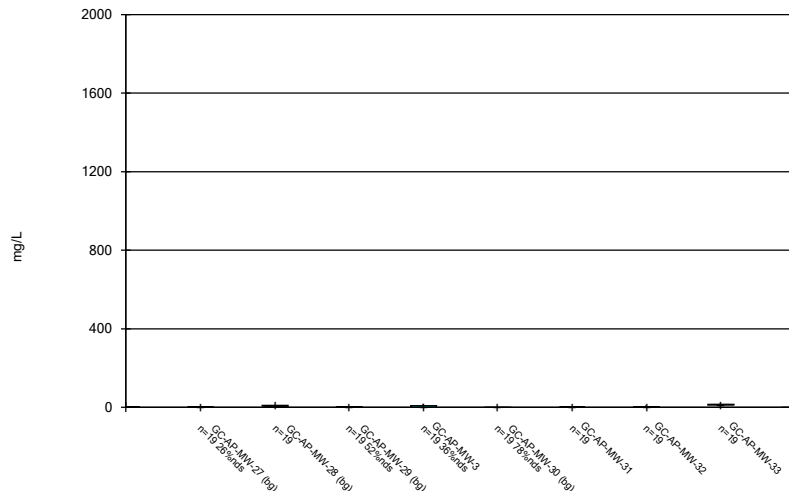
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Box & Whiskers Plot



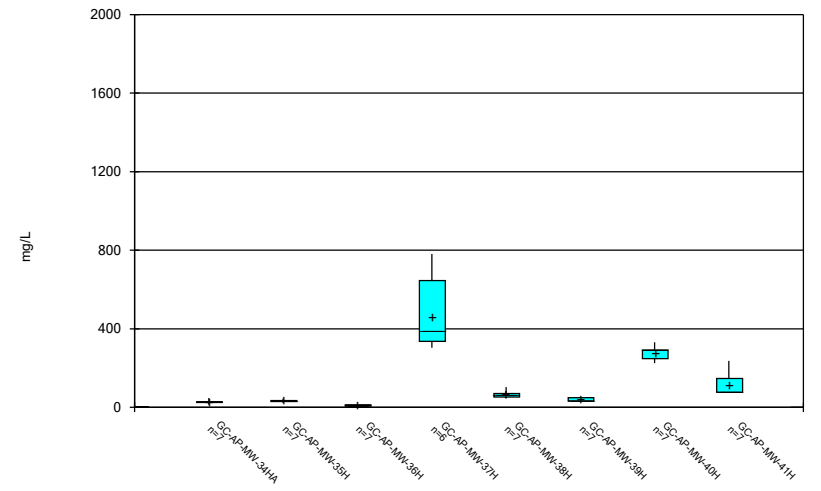
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Box & Whiskers Plot



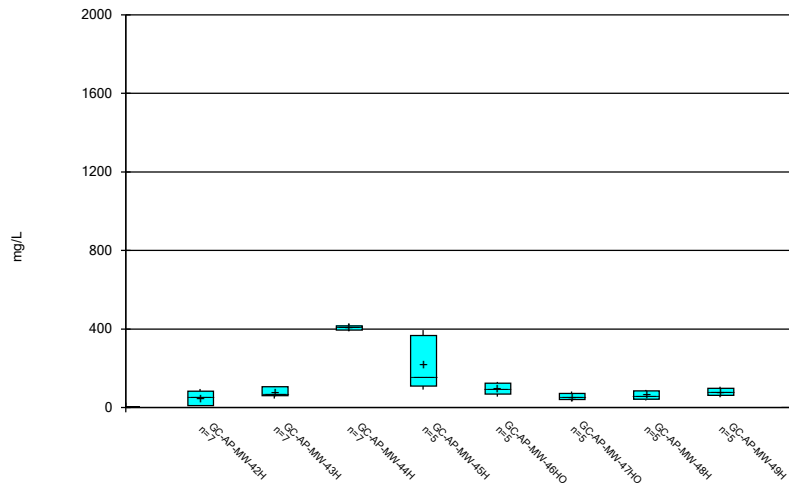
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Box & Whiskers Plot



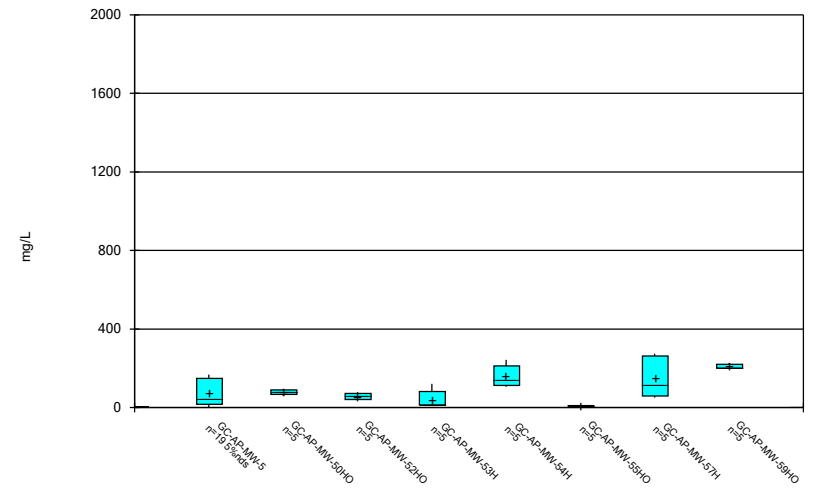
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Box & Whiskers Plot



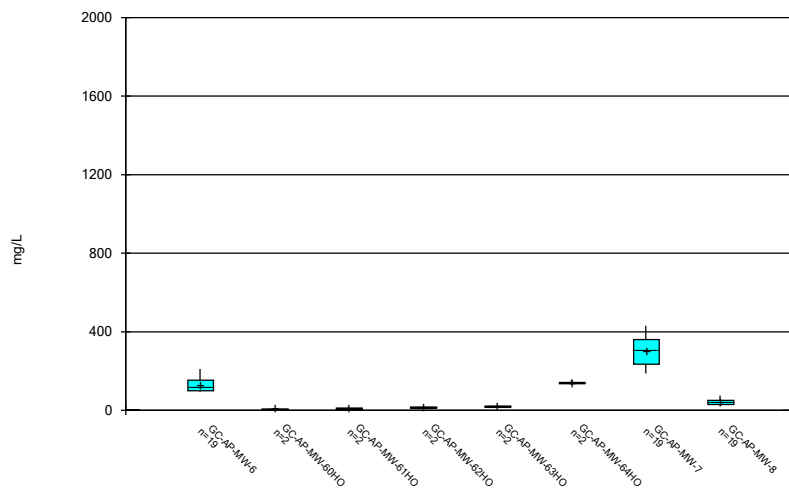
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Box & Whiskers Plot



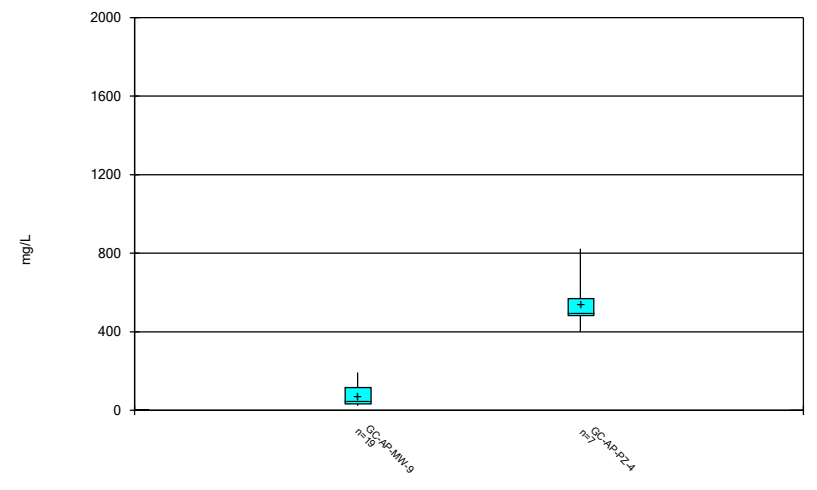
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Box & Whiskers Plot



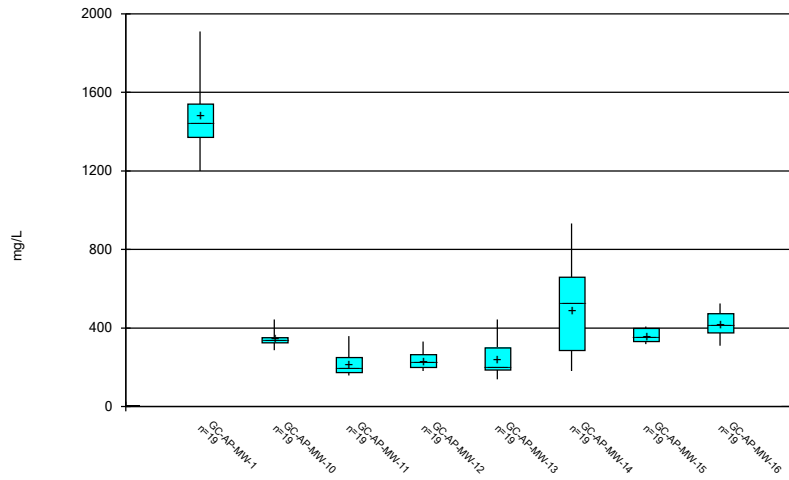
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Box & Whiskers Plot



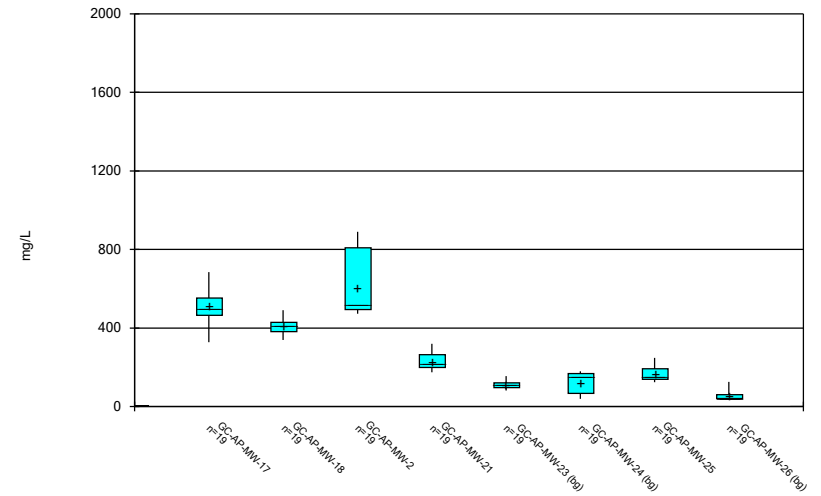
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Box & Whiskers Plot



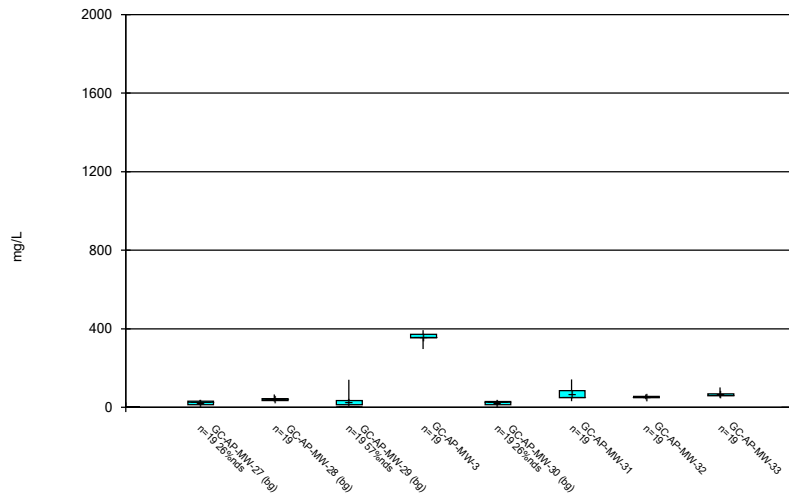
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Box & Whiskers Plot



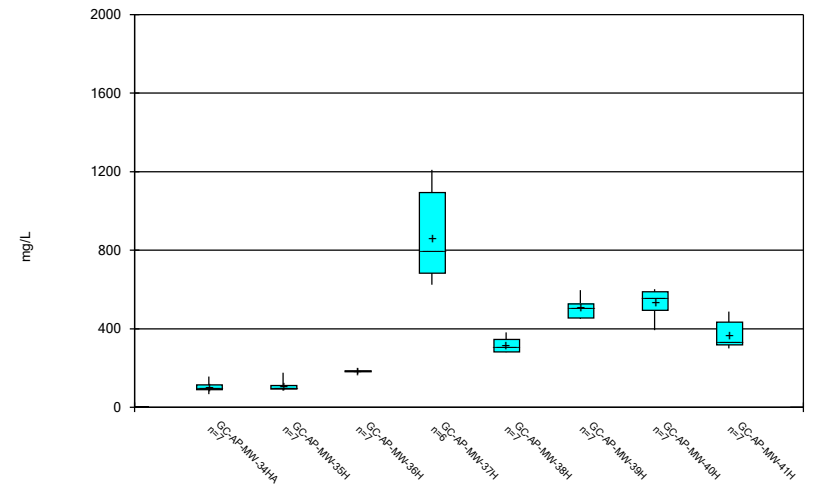
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Box & Whiskers Plot



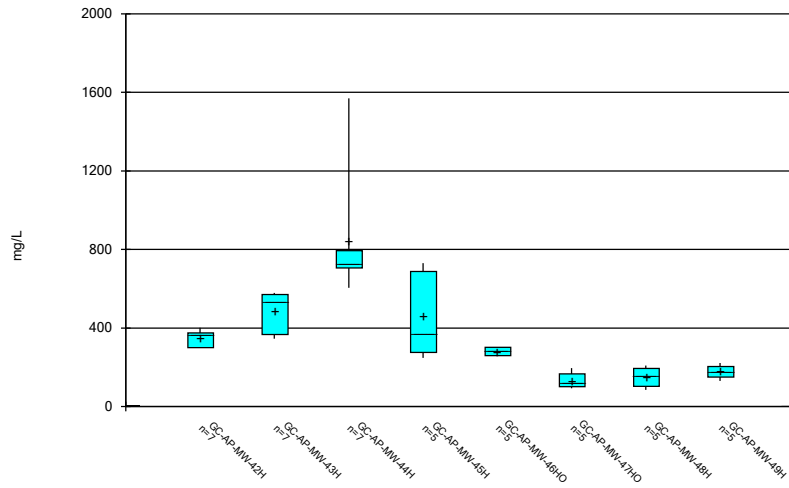
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Box & Whiskers Plot



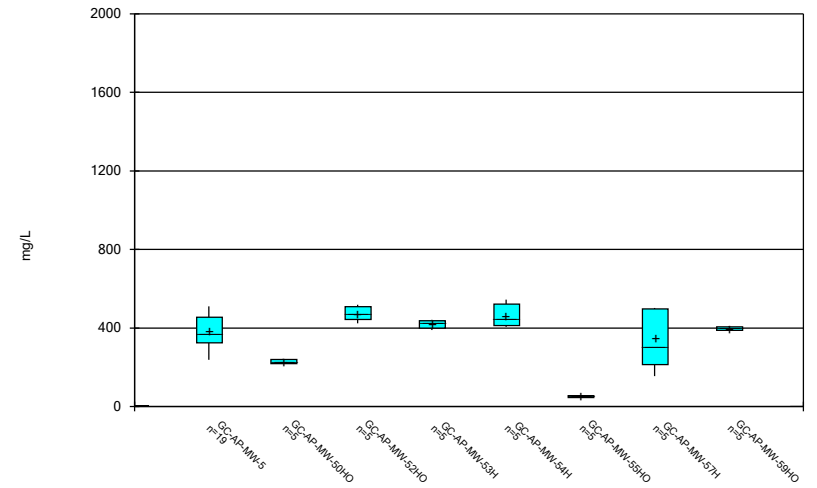
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Box & Whiskers Plot



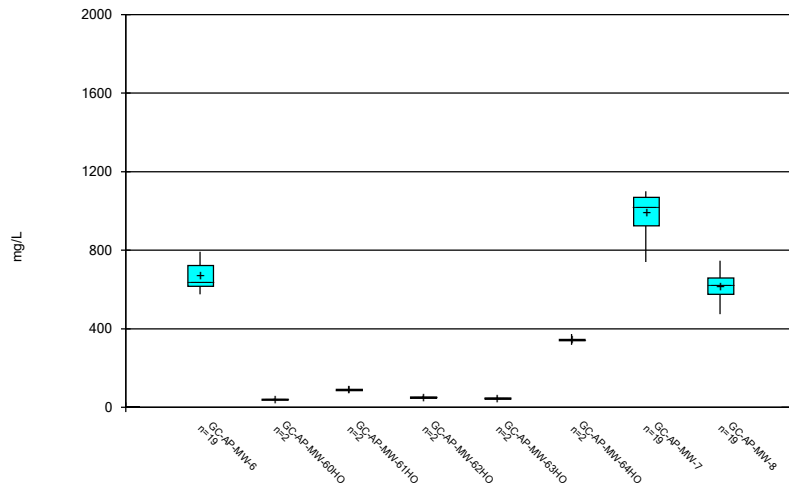
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Box & Whiskers Plot



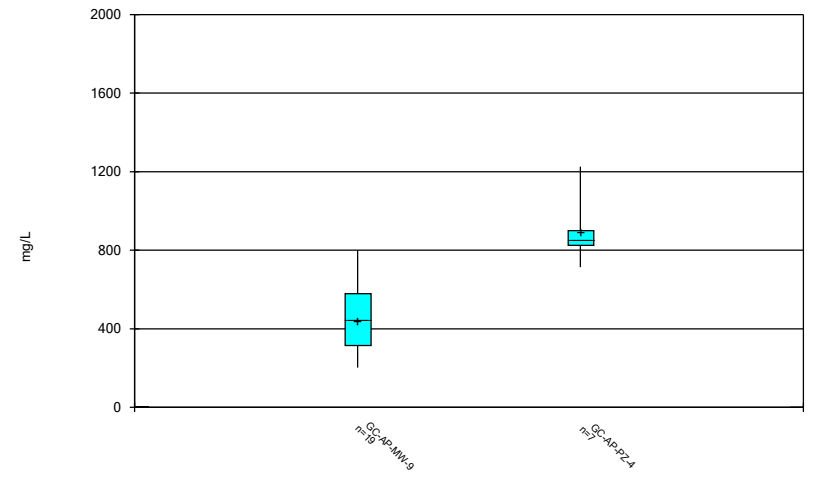
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Box & Whiskers Plot



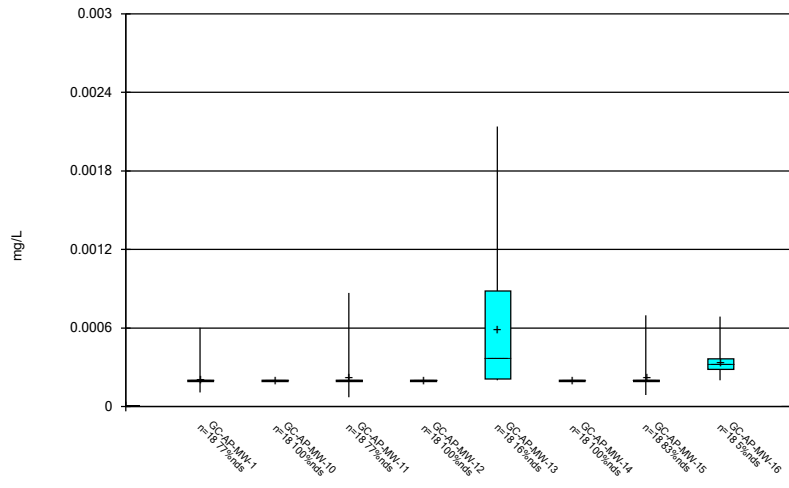
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Box & Whiskers Plot



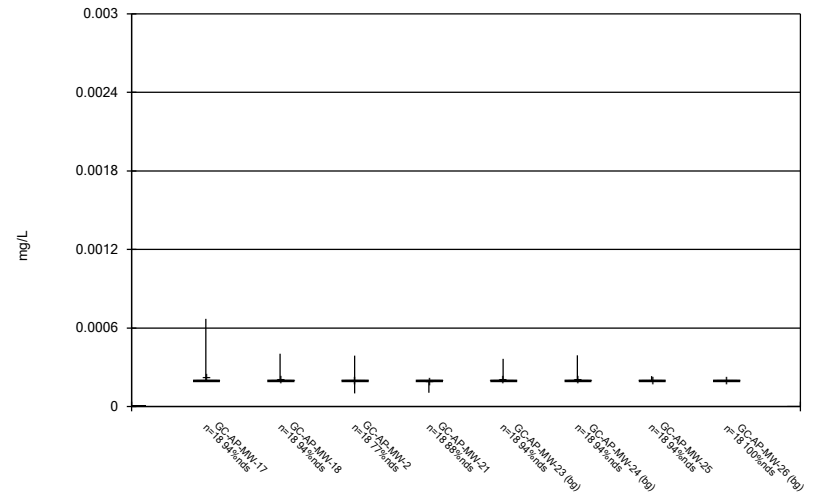
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Box & Whiskers Plot



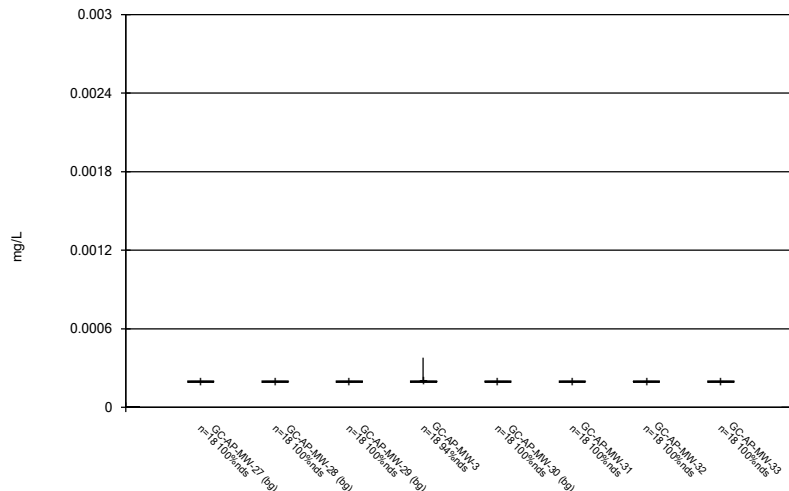
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Box & Whiskers Plot



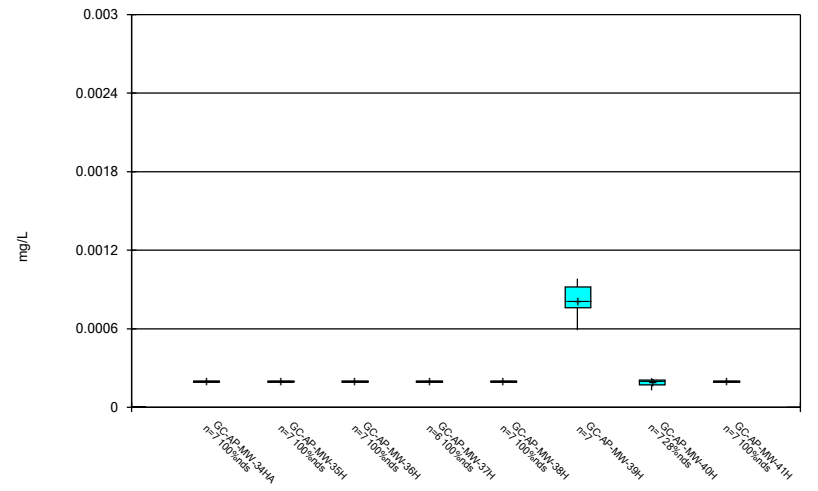
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Box & Whiskers Plot



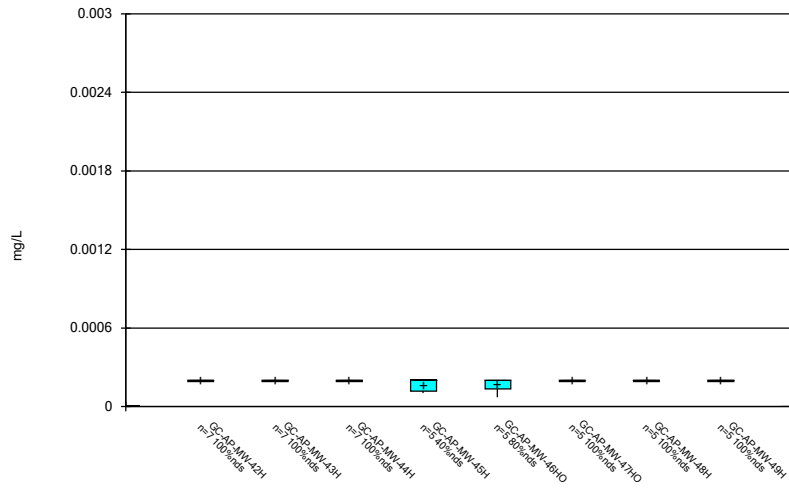
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Box & Whiskers Plot



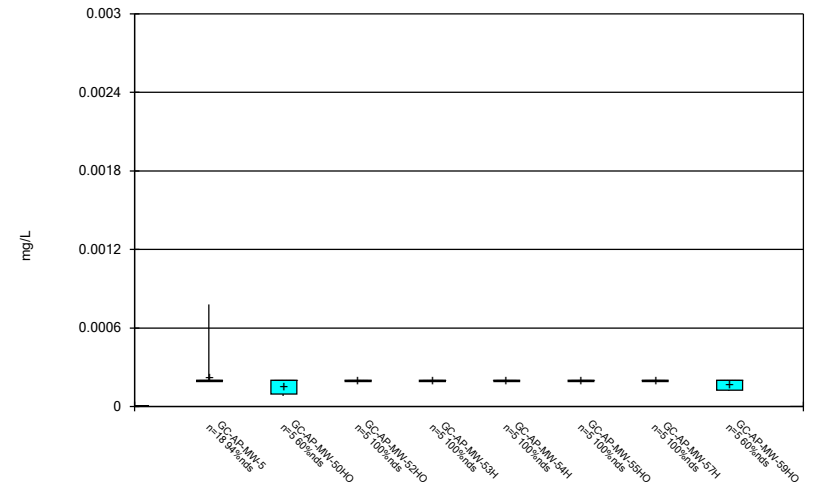
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Box & Whiskers Plot



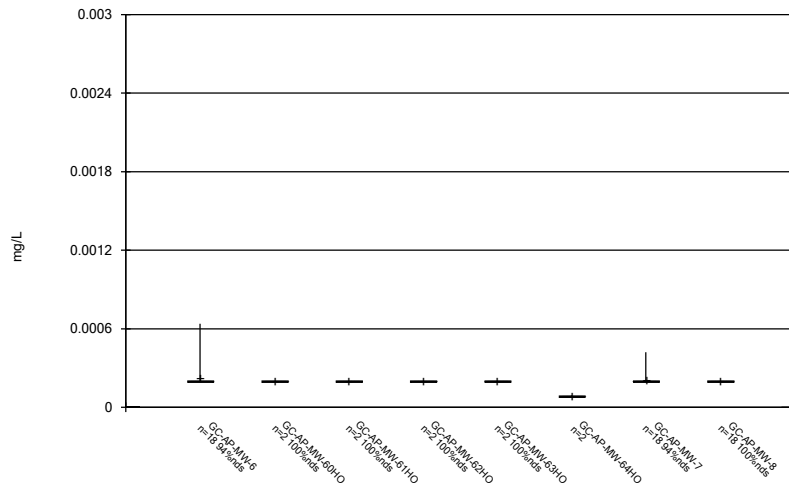
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Box & Whiskers Plot



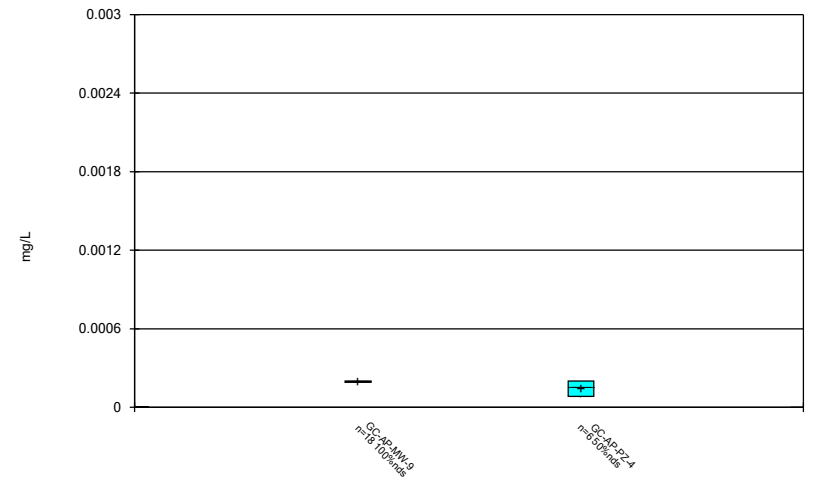
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Box & Whiskers Plot



Constituent: Thallium Analysis Run 6/10/2022 1:00 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 6/10/2022 1:00 PM View: Descriptive
Plant Greene County Client: Southern Company Data: Greene County AP

FIGURE C.

Outlier Summary

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/10/2022, 1:02 PM

GC-AP-MW-26 Fluoride (mg/L)
GC-AP-MW-27 Fluoride (mg/L)
GC-AP-MW-28 Fluoride (mg/L)
GC-AP-MW-13 Selenium (mg/L)

9/20/2016	0.01 (o)	0.021 (o)	
3/13/2017	0.31 (o)		
5/9/2017	0.25 (o)		
6/27/2017	0.22 (o)		
8/29/2017	0.22 (o)		
4/6/2022		0.111 (o)	

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	4/4/2022	0.269	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	4/4/2022	1.92	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	3/30/2022	0.472	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	3/29/2022	0.416	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	4/6/2022	0.26	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	4/4/2022	1.89	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	3/29/2022	0.848	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	4/6/2022	2.17	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	4/4/2022	2.32	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	4/6/2022	1.6	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	3/28/2022	0.125	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	3/30/2022	0.696	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	3/29/2022	0.122	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	4/4/2022	0.615	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	3/29/2022	1.39	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	3/29/2022	1.08	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	3/29/2022	0.71	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	4/4/2022	106	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	4/4/2022	93.7	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	3/29/2022	52	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	4/6/2022	55.5	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	4/4/2022	117	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	3/29/2022	75.7	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	4/6/2022	101	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	4/4/2022	104	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	4/6/2022	96.1	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	3/28/2022	157	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	3/30/2022	51	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	4/5/2022	67.4	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	4/4/2022	98.8	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	3/29/2022	128	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	3/29/2022	126	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	3/29/2022	92.8	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	3/29/2022	72.1	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.842	n/a	4/4/2022	41.75	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.842	n/a	4/4/2022	16.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.842	n/a	3/30/2022	12.7	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.842	n/a	3/29/2022	11.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.842	n/a	4/4/2022	9.875	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.842	n/a	3/29/2022	10.3	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.842	n/a	4/6/2022	11.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.842	n/a	4/4/2022	8.06	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.842	n/a	4/6/2022	24.35	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.842	n/a	3/28/2022	11.5	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.842	n/a	3/30/2022	12.1	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.842	n/a	3/29/2022	29.6	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.842	n/a	4/5/2022	21.1	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.842	n/a	3/28/2022	6	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.842	n/a	4/4/2022	9.63	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.842	n/a	3/29/2022	45.3	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.842	n/a	3/29/2022	94.7	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.842	n/a	3/29/2022	95.4	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.842	n/a	3/29/2022	225	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	4/4/2022	0.2785	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	4/4/2022	0.226	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	4/6/2022	0.2395	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	4/4/2022	0.5855	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	4/4/2022	0.216	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	3/29/2022	0.193	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	4/4/2022	812.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	4/4/2022	116.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	3/30/2022	125	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	3/29/2022	108	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	4/6/2022	157	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	4/4/2022	195.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	3/29/2022	165	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	3/28/2022	563	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	3/30/2022	115	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	4/4/2022	160	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	3/29/2022	190	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	3/29/2022	187	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	3/29/2022	193	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	179	n/a	4/4/2022	1310	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	4/4/2022	443.5	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	3/30/2022	280	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	3/29/2022	290	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	179	n/a	4/6/2022	298	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	4/4/2022	644	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	3/29/2022	406	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	4/6/2022	472	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	4/4/2022	553	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	4/6/2022	408.5	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	3/28/2022	868	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	3/30/2022	320	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	3/29/2022	247	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	4/5/2022	338	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	4/4/2022	488	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	179	n/a	3/29/2022	722	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	3/29/2022	894	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	3/29/2022	730	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	3/29/2022	800	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	4/4/2022	0.269	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	4/4/2022	1.92	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	3/30/2022	0.472	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	3/29/2022	0.416	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	4/6/2022	0.26	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	4/4/2022	1.89	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	3/29/2022	0.848	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	4/6/2022	2.17	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	4/4/2022	2.32	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	4/6/2022	1.6	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	3/28/2022	0.125	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	3/30/2022	0.696	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	3/29/2022	0.122	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	4/5/2022	0.0453J	No	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	3/28/2022	0.1015ND	No	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	3/28/2022	0.1015ND	No	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	3/28/2022	0.1015ND	No	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	4/4/2022	0.615	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	3/29/2022	1.39	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	3/29/2022	0.0842J	No	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	3/29/2022	1.08	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	3/29/2022	0.71	Yes	126	n/a	n/a	93.65	n/a	n/a	0.0001232	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.8	n/a	4/4/2022	106	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.8	n/a	4/4/2022	93.7	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	42.8	n/a	3/30/2022	39.6	No	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.8	n/a	3/29/2022	52	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.8	n/a	4/6/2022	55.5	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.8	n/a	4/4/2022	117	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.8	n/a	3/29/2022	75.7	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.8	n/a	4/6/2022	101	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.8	n/a	4/4/2022	104	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.8	n/a	4/6/2022	96.1	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.8	n/a	3/28/2022	157	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	42.8	n/a	3/30/2022	51	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.8	n/a	3/29/2022	31.9	No	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.8	n/a	4/5/2022	67.4	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	42.8	n/a	3/28/2022	5.95	No	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	42.8	n/a	3/28/2022	9.61	No	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	42.8	n/a	3/28/2022	2.21	No	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.8	n/a	4/4/2022	98.8	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.8	n/a	3/29/2022	128	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.8	n/a	3/29/2022	126	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.8	n/a	3/29/2022	92.8	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.8	n/a	3/29/2022	72.1	Yes	133	n/a	n/a	0	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.842	n/a	4/4/2022	41.75	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.842	n/a	4/4/2022	16.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.842	n/a	3/30/2022	12.7	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.842	n/a	3/29/2022	11.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.842	n/a	4/6/2022	3.71	No	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.842	n/a	4/4/2022	9.875	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.842	n/a	3/29/2022	10.3	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.842	n/a	4/6/2022	11.8	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.842	n/a	4/4/2022	8.06	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.842	n/a	4/6/2022	24.35	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.842	n/a	3/28/2022	11.5	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.842	n/a	3/30/2022	12.1	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.842	n/a	3/29/2022	29.6	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.842	n/a	4/5/2022	21.1	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.842	n/a	3/28/2022	6	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-32	5.842	n/a	3/28/2022	3.98	No	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-33	5.842	n/a	3/28/2022	5.47	No	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.842	n/a	4/4/2022	9.63	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.842	n/a	3/29/2022	45.3	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.842	n/a	3/29/2022	94.7	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.842	n/a	3/29/2022	95.4	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.842	n/a	3/29/2022	225	Yes	133	0.7552	0.4753	3.759	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	4/4/2022	0.124	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	4/4/2022	0.2785	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	3/30/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	3/29/2022	0.107J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	4/6/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	4/4/2022	0.226	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	3/29/2022	0.117J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	4/6/2022	0.2395	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	4/4/2022	0.5855	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	4/6/2022	0.1385	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	3/28/2022	0.105J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	3/30/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	3/29/2022	0.0724J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	4/5/2022	0.146	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	3/28/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	3/28/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	3/28/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	4/4/2022	0.216	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	3/29/2022	0.193	Yes	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	3/29/2022	0.104J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	3/29/2022	0.108J	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	3/29/2022	0.125ND	No	127	n/a	n/a	69.29	n/a	n/a	0.0001215	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-1	6.8	3.78	4/4/2022	5.17	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-10	6.8	3.78	4/4/2022	6.21	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-11	6.8	3.78	3/30/2022	6.02	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.78	3/29/2022	6.44	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-13	6.8	3.78	4/6/2022	6.24	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.8	3.78	4/4/2022	6.39	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-15	6.8	3.78	3/29/2022	5.81	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.8	3.78	4/6/2022	6.42	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.8	3.78	4/4/2022	6.71	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-18	6.8	3.78	4/6/2022	6.29	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.8	3.78	3/28/2022	5.32	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.8	3.78	3/30/2022	6.09	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-25	6.8	3.78	3/29/2022	5.26	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.8	3.78	4/5/2022	6.27	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.8	3.78	3/28/2022	5.05	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.8	3.78	3/28/2022	5.01	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.8	3.78	3/28/2022	4.29	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.8	3.78	4/4/2022	6.42	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-6	6.8	3.78	3/29/2022	5.99	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.8	3.78	3/29/2022	6.62	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-8	6.8	3.78	3/29/2022	6.21	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.8	3.78	3/29/2022	5.61	No	157	n/a	n/a	0	n/a	n/a	0.000159	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	4/4/2022	812.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	4/4/2022	116.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	3/30/2022	125	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	3/29/2022	108	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	4/6/2022	157	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	4/4/2022	195.5	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	3/29/2022	165	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	4/6/2022	45.3	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	4/4/2022	68.9	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	4/6/2022	16.05	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	3/28/2022	563	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	3/30/2022	115	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	3/29/2022	68.6	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	4/5/2022	14.95	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	3/28/2022	3.34	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	3/28/2022	2.55	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	3/28/2022	11.8	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	4/4/2022	160	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	3/29/2022	190	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	3/29/2022	187	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	3/29/2022	75.3	No	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	3/29/2022	193	Yes	133	n/a	n/a	22.56	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	179	n/a	4/4/2022	1310	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	179	n/a	4/4/2022	443.5	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	179	n/a	3/30/2022	280	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	179	n/a	3/29/2022	290	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2

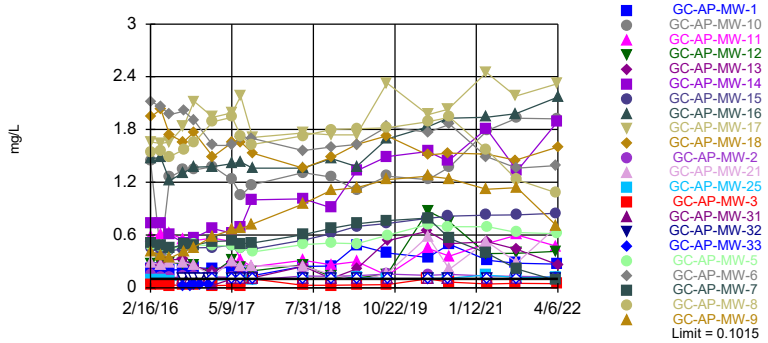
Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 4:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	GC-AP-MW-13	179	n/a	4/6/2022	298	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	179	n/a	4/4/2022	644	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	179	n/a	3/29/2022	406	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	179	n/a	4/6/2022	472	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	179	n/a	4/4/2022	553	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	179	n/a	4/6/2022	408.5	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	179	n/a	3/28/2022	868	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	179	n/a	3/30/2022	320	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	179	n/a	3/29/2022	247	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	179	n/a	4/5/2022	338	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	179	n/a	3/28/2022	43.3	No	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	179	n/a	3/28/2022	51.3	No	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	179	n/a	3/28/2022	57.3	No	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	179	n/a	4/4/2022	488	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	179	n/a	3/29/2022	722	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	179	n/a	3/29/2022	894	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	179	n/a	3/29/2022	730	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	179	n/a	3/29/2022	800	Yes	133	n/a	n/a	15.79	n/a	n/a	0.000111	NP Inter (normality) 1 of 2

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit
Interwell Non-parametric

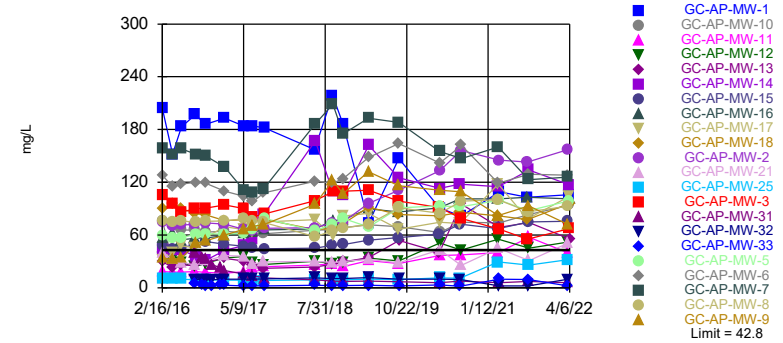


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 126 background values. 93.65% NDs. Annual per-constituent alpha = 0.005406. Individual comparison alpha = 0.0001232 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 6/1/2022 1:03 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16,...

Prediction Limit
Interwell Non-parametric

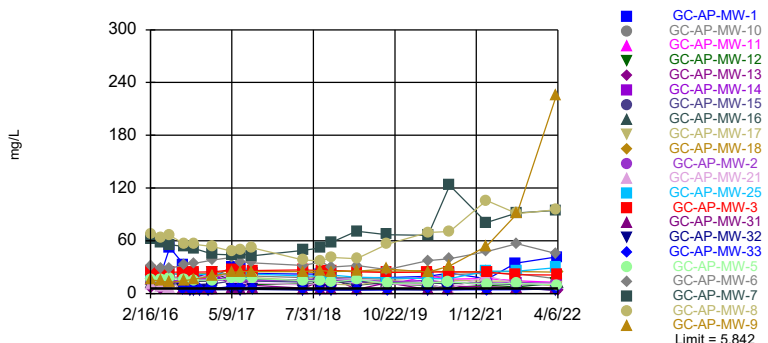


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 133 background values. Annual per-constituent alpha = 0.004874. Individual comparison alpha = 0.000111 (1 of 2). Comparing 22 points to limit.

Constituent: Calcium Analysis Run 6/1/2022 1:03 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16,...

Prediction Limit
Interwell Parametric



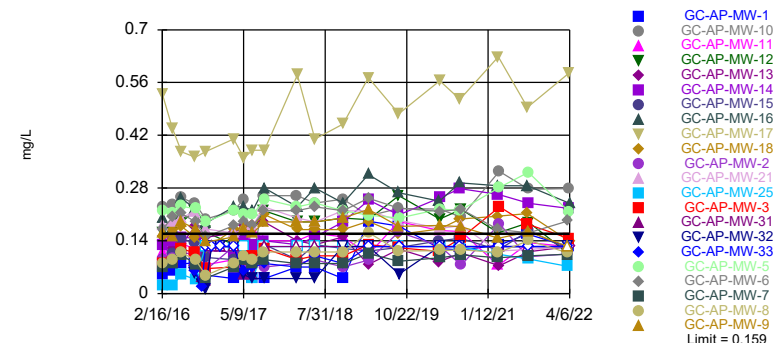
Background Data Summary (based on natural log transformation): Mean=0.7552, Std. Dev.=0.4753, n=133, 3.759% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 11.44, critical = 14.07. Kappa = 2.125 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Chloride Analysis Run 6/1/2022 1:03 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-10, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-5, GC-AP-MW-6

Prediction Limit
Interwell Non-parametric

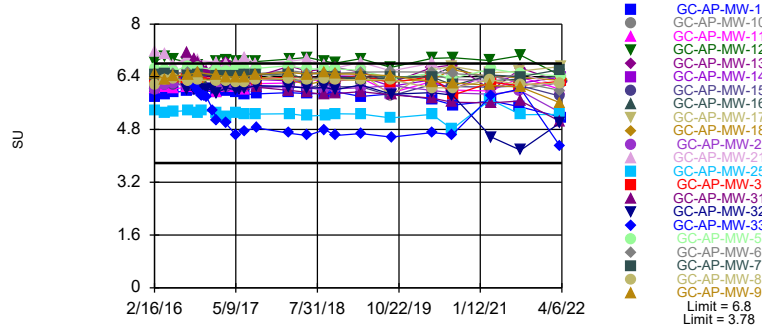


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 127 background values. 69.29% NDs. Annual per-constituent alpha = 0.00533. Individual comparison alpha = 0.0001215 (1 of 2). Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 6/1/2022 1:03 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

Within Limits

Prediction Limit
Interwell Non-parametric



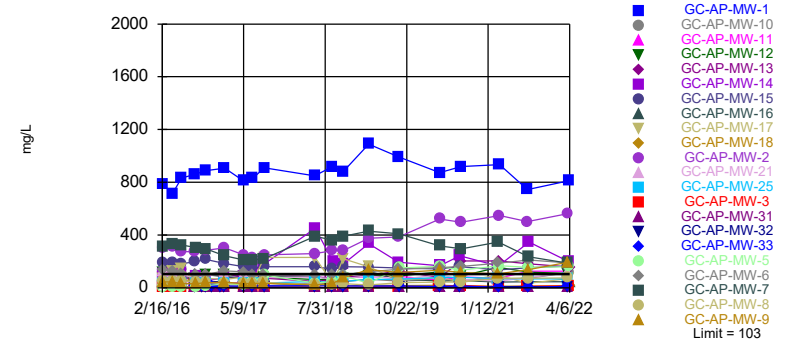
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 157 background values. Annual per-constituent alpha = 0.006983. Individual comparison alpha = 0.000159 (1 of 2). Comparing 22 points to limit.

Constituent: pH Analysis Run 6/1/2022 1:03 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15...

Prediction Limit
Interwell Non-parametric

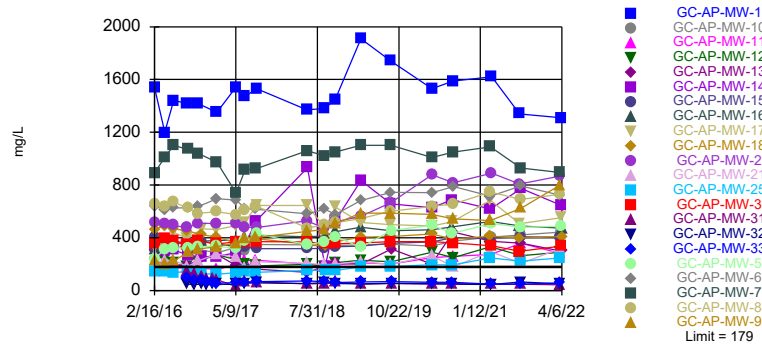


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 133 background values. 22.56% NDs. Annual per-constituent alpha = 0.004874. Individual comparison alpha = 0.000111 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 6/1/2022 1:03 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15...

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 133 background values. 15.79% NDs. Annual per-constituent alpha = 0.004874. Individual comparison alpha = 0.000111 (1 of 2). Comparing 22 points to limit.

Constituent: TDS Analysis Run 6/1/2022 1:03 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-24 (bg)	GC-AP-MW-11
8/23/2021									
8/24/2021		1.23	1.93		1.14			<0.1015	
8/25/2021	0.393			0.288		1.33	0.438		0.601
3/28/2022									
3/29/2022	0.416	1.08			0.71				
3/30/2022				0.696					0.472
4/4/2022			1.92			1.89		<0.1015	
4/5/2022									
4/6/2022							0.26		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-2	GC-AP-MW-16	GC-AP-MW-5	GC-AP-MW-23 (bg)	GC-AP-MW-7	GC-AP-MW-17	GC-AP-MW-6	GC-AP-MW-1	GC-AP-MW-15
8/23/2021			0.628						
8/24/2021				<0.1015	0.216		1.36		
8/25/2021									0.83
3/28/2022	0.125			<0.1015					
3/29/2022					0.0842 (J)		1.39		0.848
3/30/2022									
4/4/2022			0.615			2.32		0.269	
4/5/2022									
4/6/2022		2.17							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-18	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	0.0922 (J)	0.0288 (J)	1.94						
4/12/2016	0.0935 (J)	0.0293 (J)	2.03						
4/13/2016									
5/31/2016									
6/1/2016	0.0826 (J)	0.0279 (J)	1.74						
8/15/2016		0.0332 (J)	1.66						
8/16/2016				<0.1015	<0.1015	0.0268 (J)	<0.1015	<0.1015	
8/17/2016	0.092 (J)								<0.1015
9/19/2016				<0.1015		0.0225 (J)	<0.1015		
9/20/2016					<0.1015			<0.1015	<0.1015
10/11/2016	0.0976 (J)	0.0328 (J)		<0.1015	<0.1015	0.0304 (J)	<0.1015	<0.1015	
10/12/2016			1.77						0.02 (J)
11/14/2016				<0.1015		0.0355 (J)	<0.1015		
11/15/2016					<0.1015			0.0229 (J)	<0.1015
1/3/2017				<0.1015		0.0304 (J)	<0.1015		
1/4/2017					<0.1015			<0.1015	<0.1015
1/23/2017					<0.1015				0.0287 (J)
1/24/2017	0.0877 (J)	0.0262 (J)	1.49	0.0282 (J)			<0.1015		
1/25/2017						<0.1015			
1/26/2017								<0.1015	
5/9/2017	0.0953 (J)	0.0298 (J)			<0.1015			<0.1015	<0.1015
5/10/2017			1.65	<0.1015		<0.1015	<0.1015		
6/27/2017			1.66	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/28/2017	0.0835 (J)	0.0226 (J)							
8/29/2017	0.0914 (J)								<0.1015
8/30/2017		<0.1015	1.53	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	
6/4/2018		0.0296 (J)							
6/5/2018			1.36	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/6/2018	0.102								
11/5/2018							<0.1015		
11/6/2018	0.0995 (J)	0.0268 (J)	1.48	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015
11/7/2018									
3/26/2019			1.63		<0.1015			<0.1015	<0.1015
3/27/2019	0.113	0.0316 (J)		<0.1015		<0.1015	<0.1015		
9/9/2019		0.035 (J)	1.73						
9/10/2019	0.105								
9/11/2019				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
4/20/2020		<0.1015							
4/21/2020			1.51		<0.1015			<0.1015	<0.1015
4/22/2020	0.104			<0.1015		<0.1015	<0.1015		
8/11/2020	0.11			<0.1015					
8/12/2020			1.53			<0.1015	<0.1015		
8/17/2020		0.0636 (J)							
8/18/2020					<0.1015			<0.1015	<0.1015
8/19/2020									
3/9/2021			1.52						
3/10/2021	0.146								
3/15/2021				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
3/16/2021		0.0445 (J)							
8/17/2021		0.0518 (J)	1.45						
8/18/2021					<0.1015			<0.1015	<0.1015

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-18	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-27 (bg)
8/23/2021				<0.1015		<0.1015	<0.1015		
8/24/2021	0.115								
8/25/2021									
3/28/2022				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
3/29/2022	0.122								
3/30/2022									
4/4/2022									
4/5/2022		0.0453 (J)							
4/6/2022			1.6						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	<0.1015	<0.1015
9/19/2016		
9/20/2016	<0.1015	<0.1015
10/11/2016		
10/12/2016	<0.1015	<0.1015
11/14/2016		
11/15/2016	<0.1015	<0.1015
1/3/2017		
1/4/2017	<0.1015	<0.1015
1/23/2017		0.0217 (J)
1/24/2017	0.0331 (J)	
1/25/2017		
1/26/2017		
5/9/2017	<0.1015	<0.1015
5/10/2017		
6/27/2017	<0.1015	<0.1015
6/28/2017		
8/29/2017		<0.1015
8/30/2017	<0.1015	
6/4/2018		
6/5/2018	<0.1015	<0.1015
6/6/2018		
11/5/2018		
11/6/2018	<0.1015	<0.1015
11/7/2018		
3/26/2019	<0.1015	<0.1015
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	<0.1015	<0.1015
4/20/2020		
4/21/2020	<0.1015	<0.1015
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.1015	<0.1015
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.1015	<0.1015
3/16/2021		
8/17/2021		
8/18/2021	<0.1015	<0.1015

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg) GC-AP-MW-26 (bg)

8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	<0.1015	
3/29/2022		
3/30/2022		
4/4/2022		<0.1015
4/5/2022		
4/6/2022		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-9	GC-AP-MW-3	GC-AP-MW-23 (bg)
2/16/2016	40.4	44.4	29.8	76.3	75.9	34.6	33.9		
2/17/2016								106	38.7
4/12/2016		43.2	23.3					95.2	42.7
4/13/2016	32.2			30.5	74.1	32.2	32.5		
5/31/2016		43	25.9	65.9		28.8			
6/1/2016	29.3				76.4		33.9	86.1	41.8
8/15/2016								89.7	
8/16/2016	25.4		25.5	65.6		24			40.9
8/17/2016		35.9			74.2		50.3		
9/19/2016									
9/20/2016									
10/11/2016								90.6	38.1
10/12/2016	30.7	31.1	29.5	63.4	75.7	27.8	53.3		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								94.2	27.7
1/25/2017	36.8	42.7	33.6	64.2	76.1	33.7	59.9		
1/26/2017									
5/9/2017	36.1	48.1	30.4			35.5		90.3	29.3
5/10/2017				62.6	78.6		66.5		
6/27/2017									28.6
6/28/2017	26.9	55	26	60.8	76.4	28	69.8	80.7	
8/29/2017	29.4	83.6	22.3	61.4	74.1	26.4	72		32.3
8/30/2017								84	
6/4/2018								98.8	
6/5/2018				65.5	58		95.1		34.5
6/6/2018	30.2	167	23.7			30.1			
9/10/2018	28.8								
9/11/2018			26.8	66.1	64.9	27.4	122		32
9/12/2018		109						109	
11/5/2018	29.7		29.4			28.8			
11/6/2018								110	
11/7/2018		105		68.5	68.1		107		30.3
3/26/2019	32.4		34.1		72	33.7	132		31.3
3/27/2019		162		71.8				111	
9/9/2019								98.5	
9/10/2019	28.4	125		69.3	91	30.5	116		30.7
9/11/2019			53.9						
4/20/2020			40.3					91.2	
4/21/2020	43.1	113			84.8	51	111		30.8
4/22/2020				62.9					
8/11/2020		118							
8/12/2020									28
8/17/2020								78.9	
8/18/2020	25.5		95.3	74.4		42.9	109		
8/19/2020					98.6				
3/9/2021		115			100		82.1		
3/10/2021	44.9					55.1			26.6
3/15/2021			68.9	73.8					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-9	GC-AP-MW-3	GC-AP-MW-23 (bg)
3/16/2021								66.6	
8/17/2021								55.4	
8/18/2021									
8/23/2021									
8/24/2021				83.4	86.4		93.1		26.3
8/25/2021	31	134	74.2			45.2			
3/28/2022									26
3/29/2022					92.8	52	72.1		
3/30/2022	51								
4/4/2022		117		93.7					
4/5/2022								67.4	
4/6/2022			55.5						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-2	GC-AP-MW-18	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-7	GC-AP-MW-15	GC-AP-MW-5	GC-AP-MW-25
3/16/2021		145						99.7	
8/17/2021		143	77.4	78.3	103				
8/18/2021									
8/23/2021								87.6	
8/24/2021						123			25.9
8/25/2021	57.6						74.8		
3/28/2022		157							
3/29/2022						126	75.7		31.9
3/30/2022	39.6								
4/4/2022				104				98.8	
4/5/2022									
4/6/2022			96.1		101				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-24 (bg)	GC-AP-MW-1	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	128	6.54	204						
4/12/2016	115	6.15							
4/13/2016			152						
5/31/2016	118								
6/1/2016		5.7	183						
8/15/2016			197						
8/16/2016		6.77		5.54	9.33	39.5	2.02	1.24	
8/17/2016	120								1.1
9/19/2016				3.01	9.26	34.5			
9/20/2016							1.22	1.11	0.771
10/11/2016	119	8.84	186	2.74	9.31	32.4	1.48	1.22	
10/12/2016									0.711
11/14/2016				2.47	9.17	26.5			
11/15/2016							1.36	1.34	0.641
1/3/2017				2.94	9.66	22.6			
1/4/2017							1.11	2.39	0.797
1/23/2017								1.83	0.655
1/24/2017	110	12.8	193		9.67	19.5			
1/25/2017				2.91					
1/26/2017							1.03		
5/9/2017			184				0.289 (J)	0.823	0.538
5/10/2017	104	12.4		2.27	9.81	15.7			
6/27/2017			184	2.2	9.88	13.8	0.292 (J)	0.956	0.413 (J)
6/28/2017	98	17.9							
8/29/2017	108	19							0.504
8/30/2017			182	2.26	10.3	11.1	0.336 (J)	1.04	
6/4/2018			157						
6/5/2018	121	30		2.97	11.4	9.12	0.2 (J)	1.18	0.339 (J)
6/6/2018									
9/10/2018			219						
9/11/2018	119	28.7		2.6	10.5	7.5	0.171 (J)	1.5	0.776
9/12/2018									
11/5/2018					10.5				
11/6/2018			186	2.42		7.39	0.193 (J)	1.64	0.746
11/7/2018	124	30.7							
3/26/2019	148	32.3					0.223 (J)	1.33	0.526
3/27/2019			73.8	2.75	11.6	7.65			
9/9/2019									
9/10/2019	164	32.8	147						
9/11/2019				2.17	9.95	6.96	0.158 (J)	0.925	0.638
4/20/2020									
4/21/2020	142		90.5				0.287 (J)	0.864	1.15
4/22/2020		31.4		3.15	9.87	5.92			
8/11/2020						7.46			
8/12/2020		35.8		1.78	9.48				
8/17/2020			81.5						
8/18/2020							0.231 (J)	0.926	0.884
8/19/2020	162								
3/9/2021	119								
3/10/2021		42.8							
3/15/2021				9.77	2.02	5.9	0.239 (J)	0.646	0.745

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	7.74	5.88
9/19/2016		
9/20/2016	2.43	5.95
10/11/2016		
10/12/2016	2.46	6.1
11/14/2016		
11/15/2016	2.28	6.28
1/3/2017		
1/4/2017	2.7	4.97
1/23/2017		5.17
1/24/2017	4.19	
1/25/2017		
1/26/2017		
5/9/2017	3.28	15.7
5/10/2017		
6/27/2017	3.76	14.2
6/28/2017		
8/29/2017		11.1
8/30/2017	2.31	
6/4/2018		
6/5/2018	2.76	3.93
6/6/2018		
9/10/2018		
9/11/2018	2.04	3.76
9/12/2018		
11/5/2018		
11/6/2018	2	4.81
11/7/2018		
3/26/2019	2.13	3.18
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.98	3.98
4/20/2020		
4/21/2020	2.41	3.83
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	2.23	4.58
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	1.73	4.67

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-28 (bg)	GC-AP-MW-26 (bg)
3/16/2021		
8/17/2021		
8/18/2021	1.94	4.84
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	1.94	
3/29/2022		
3/30/2022		
4/4/2022		6.7
4/5/2022		
4/6/2022		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-9	GC-AP-MW-3	GC-AP-MW-23 (bg)
2/16/2016	9.95	16.4	6.52	18.4	67.9	10.8	15.6		
2/17/2016								25.2	1.54
4/12/2016		15.9	4.47					24.6	1.51
4/13/2016	7.33			19	64.1	8.2	14.3		
5/31/2016		13.6	10.8	19.2		7.74			
6/1/2016	6.97				66.3		12.6	24.5	1.46
8/15/2016								24.2	
8/16/2016	12		16.6	17.7		12.5			1.5
8/17/2016		12.8			56.7		14.4		
9/19/2016									
9/20/2016									
10/11/2016								24.4	1.52
10/12/2016	15.4	16.3	18.5	16.8	56.1	15.7	16.4		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								24.6	1.38
1/25/2017	24.7	16.4	22	18.6	53.6	24.4	20		
1/26/2017									
5/9/2017	17	19	10			15		27	2.4
5/10/2017				22	48		24		
6/27/2017									2.1
6/28/2017	11	17	9.4	20	49	12	25	26	
8/29/2017	12	17	9.3	20	52	10	25		2.4
8/30/2017								26	
6/4/2018								27	
6/5/2018				18	38		25		1.7 (J)
6/6/2018	9.7	14	6.1			11			
9/10/2018	12								
9/11/2018			14	19	37	12	26		1.5 (J)
9/12/2018		14						26	
11/5/2018	16		18			17			
11/6/2018								26	
11/7/2018		15		19	41		25		1.4 (J)
3/26/2019	17.2		4.7		39.7	14.5	25.3		1.23
3/27/2019		14.9		17.1				24.8	
9/9/2019								23.8	
9/10/2019	11	13.5		16.5	56.1	10.9	28		1.38
9/11/2019			12.3						
4/20/2020			4.7					24.5	
4/21/2020	10.1	14.8			69.5	9.49	24.2		1.08
4/22/2020				17.6					
8/11/2020		12.7							
8/12/2020									1.28
8/17/2020								24.6	
8/18/2020	5.54		8.24	21.3		6.46	31.4		
8/19/2020					70.5				
3/9/2021		10.4			106		53.9		
3/10/2021	20.4					9.3			1.3
3/15/2021			7.68	23.2					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-9	GC-AP-MW-3	GC-AP-MW-23 (bg)
3/16/2021								24.4	
8/17/2021								21.3	
8/18/2021									
8/23/2021									
8/24/2021				22.4	90.8		90.7		1.19
8/25/2021	10.4	11.5	6.37			7.43			
3/28/2022									1.09
3/29/2022					95.4	11.8	225		
3/30/2022	12.1								
4/4/2022		9.875 (D)		16.8 (D)					
4/5/2022								21.1 (D)	
4/6/2022			3.71						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-2	GC-AP-MW-18	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-7	GC-AP-MW-15	GC-AP-MW-5	GC-AP-MW-25
3/16/2021		11.6						10.9	
8/17/2021		12.7	25.1	14.3	10.4				
8/18/2021									
8/23/2021								11.6	
8/24/2021						91.7			25.3
8/25/2021	14.4						10.3		
3/28/2022		11.5							
3/29/2022						94.7	10.3		29.6
3/30/2022	12.7								
4/4/2022				8.06 (D)				9.63	
4/5/2022									
4/6/2022			24.35 (D)		11.8 (D)				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-24 (bg)	GC-AP-MW-1	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	31.8	3.3	16						
4/12/2016	28.9	3.25							
4/13/2016			21.5						
5/31/2016	28.7								
6/1/2016		3.55	52.5						
8/15/2016			33.3						
8/16/2016		3.45		4.88	4.24	5.32	2.21	2.54	
8/17/2016	32.2								1.78
9/19/2016				4.45	4.13	5.29			
9/20/2016							2.12	2.51	1.61
10/11/2016	34.2	3.78	22.2	4.36	4.07	5.26	2.24	2.34	
10/12/2016									1.51
11/14/2016				4.42	4.08	5.28			
11/15/2016							6.65	2.1	1.5
1/3/2017				5.18	4.06	5.18			
1/4/2017							2.15	2.44	1.53
1/23/2017								2.37	1.62
1/24/2017	38.1	4.61	18.4		4.4	5.41			
1/25/2017				5.66					
1/26/2017							2.31		
5/9/2017			30				2.3	2.8	2.2
5/10/2017	41	5.9		8	4.4	5.8			
6/27/2017			29	7.2	4	5.4	2.1	2.1	1.9 (J)
6/28/2017	36	5.7							
8/29/2017	35	6.8							2
8/30/2017			23	6.9	4.8	6	2.8	3	
6/4/2018			22						
6/5/2018	32	7.9		4.2	3.8	5.2	1.8 (J)	2.3	1.9 (J)
6/6/2018									
9/10/2018			22						
9/11/2018	36	6.1		4.2	4.1	5.5	<2	1.5 (J)	<2
9/12/2018									
11/5/2018					3.9				
11/6/2018			17	4.5		5.1	<2	1.4 (J)	1.9 (J)
11/7/2018	30	5.2							
3/26/2019	31.9	6.92					1.07	2.42	2.18
3/27/2019			18	4.33	3.9	5.26			
9/9/2019									
9/10/2019	27.3	4.39	18.1						
9/11/2019				4.16	4.21	5.31	1.19	3.72	1.7
4/20/2020									
4/21/2020	37.4		19.5				1.09	3.89	1.9
4/22/2020		2.75		5.66	4	5.37			
8/11/2020						5.45			
8/12/2020		4.14		4.46	4.17				
8/17/2020			23.2						
8/18/2020							1.05	3.8	1.63
8/19/2020	39.6								
3/9/2021	47.5								
3/10/2021		3.51							
3/15/2021				4.18	5.57	5.47	1.25	4.38	2.46

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	1.77	2.44
9/19/2016		
9/20/2016	1.56	2.54
10/11/2016		
10/12/2016	1.54	2.67
11/14/2016		
11/15/2016	1.53	2.94
1/3/2017		
1/4/2017	1.58	2.92
1/23/2017		3.21
1/24/2017	1.71	
1/25/2017		
1/26/2017		
5/9/2017	2.1	2.5
5/10/2017		
6/27/2017	2	3
6/28/2017		
8/29/2017		3.6
8/30/2017	1.5 (J)	
6/4/2018		
6/5/2018	1.2 (J)	2.2
6/6/2018		
9/10/2018		
9/11/2018	<2	1.5 (J)
9/12/2018		
11/5/2018		
11/6/2018	<2	2.5
11/7/2018		
3/26/2019	1.2	2
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.26	2.34
4/20/2020		
4/21/2020	1.32	2.04
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	1.38	2.16
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	1.27	2.83

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-28 (bg)	GC-AP-MW-26 (bg)
3/16/2021		
8/17/2021		
8/18/2021	1.42	2.97
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	1.35	
3/29/2022		
3/30/2022		
4/4/2022		2.93
4/5/2022		
4/6/2022		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-14	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-9	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-16
8/18/2021									
8/23/2021									
8/24/2021		0.141			0.164	0.277		0.0914 (J)	
8/25/2021	0.239		0.188	0.111			0.117		
3/28/2022									
3/29/2022		0.108 (J)	0.107 (J)		<0.125			0.0724 (J)	
3/30/2022							<0.125		
4/4/2022	0.226 (D)					0.2785 (D)			
4/5/2022									
4/6/2022				<0.125					0.2395 (D)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-7	GC-AP-MW-3	GC-AP-MW-17	GC-AP-MW-23 (bg)	GC-AP-MW-5	GC-AP-MW-11	GC-AP-MW-6	GC-AP-MW-18
2/16/2016									
2/17/2016	0.09 (J)	0.07 (J)	0.08 (J)	0.53	0.08 (J)	0.22 (J)	0.11 (J)	0.17 (J)	0.15 (J)
4/12/2016	0.107 (J)		0.083 (J)		0.077 (J)	0.214 (J)		0.203 (J)	0.168 (J)
4/13/2016		0.081 (J)		0.437			0.119 (J)		
5/31/2016	0.145 (J)	0.103 (J)				0.232 (J)	0.134 (J)	0.212 (J)	
6/1/2016			0.118 (J)	0.376	0.101 (J)				0.178 (J)
8/15/2016			0.109 (J)	0.362					0.149 (J)
8/16/2016	0.135 (J)				0.093 (J)		0.116 (J)		
8/17/2016		0.078 (J)				0.225 (J)		0.19 (J)	
9/19/2016									
9/20/2016									
10/11/2016	0.096 (J)		0.066 (J)		0.059 (J)	0.19 (J)		0.15 (J)	
10/12/2016		0.041 (J)		0.377			0.076 (J)		0.12 (J)
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	0.09 (J)	0.07 (J)	0.07 (J)	0.41	0.07 (J)	0.22	0.09 (J)	0.18	0.17
3/15/2017									
5/9/2017			0.09 (J)		0.08 (J)	0.21	0.11		
5/10/2017	0.11	0.09 (J)		0.36				0.19	0.17
6/27/2017	0.1			0.38	0.08 (J)				0.18
6/28/2017		0.08 (J)	0.1			0.21	0.17	0.18	
8/29/2017		0.09 (J)			0.1		0.14	0.22	
8/30/2017	0.13		0.12	0.38		0.25			0.21
2/27/2018		0.08 (J)	0.09 (J)		0.08 (J)	0.23	0.14	0.22	
2/28/2018	0.09 (J)			0.58					0.17
6/4/2018			0.1						
6/5/2018	0.13	0.08 (J)		0.41	0.09 (J)	0.24	0.16	0.23	0.17
6/6/2018									
11/5/2018							0.15		
11/6/2018	0.12		0.1	0.45		0.22			0.17
11/7/2018		0.08 (J)			0.08 (J)			0.22	
3/26/2019	0.113	0.106		0.573	0.123			0.253	0.192
3/27/2019			0.13			0.208	0.104		
9/9/2019			0.121	0.477					0.157
9/10/2019	0.122	0.086 (J)			0.0914 (J)		0.191	0.227	
9/11/2019						0.2			
4/20/2020	0.14		0.112						
4/21/2020		0.0951 (J)		0.565	0.095 (J)	0.224		0.218	0.171
4/22/2020							0.167		
8/11/2020				0.515					
8/12/2020	0.147				0.0867 (J)	0.221			0.198
8/17/2020			0.148						
8/18/2020							0.165		
8/19/2020		0.103						0.223	
3/9/2021		0.0949 (J)		0.628				0.17	0.205
3/10/2021	0.115				0.085 (J)		0.0749 (J)		
3/15/2021									
3/16/2021			0.23			0.282			
8/17/2021			0.184	0.494					0.212

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-24 (bg)	GC-AP-MW-1	GC-AP-MW-2	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	0.02 (J)	0.05 (J)	0.09 (J)						
4/12/2016	0.026 (J)								
4/13/2016		0.061 (J)	0.092 (J)						
5/31/2016									
6/1/2016	0.057 (J)	0.079 (J)	0.108 (J)						
8/15/2016		0.081 (J)	0.105 (J)						
8/16/2016	0.046 (J)			0.05 (J)	0.061 (J)	0.054 (J)	0.036 (J)	0.087 (J)	
8/17/2016									0.039 (J)
9/19/2016					0.018 (J)	0.023 (J)		0.045 (J)	
9/20/2016				0.015 (J)			<0.125		0.01 (o)
10/11/2016	<0.125	0.049 (J)	0.062 (J)	<0.125	<0.125	0.011 (J)	<0.125	0.034 (J)	
10/12/2016									<0.125
11/14/2016					<0.125	<0.125		<0.125	
11/15/2016				<0.125			<0.125		<0.125
1/3/2017					<0.125	<0.125		<0.125	
1/4/2017				<0.125			<0.125		<0.125
3/13/2017				<0.125					
3/14/2017	<0.125	0.04 (J)	<0.125		<0.125	<0.125	<0.125	<0.125	<0.125
3/15/2017									
5/9/2017		0.05 (J)	0.07 (J)	<0.125			<0.125		<0.125
5/10/2017	<0.125				0.06 (J)	0.05 (J)		0.05 (J)	
6/27/2017		0.04 (J)		<0.125	0.07 (J)	0.04 (J)	<0.125	0.05 (J)	<0.125
6/28/2017	<0.125		0.09 (J)						
8/29/2017	0.04 (J)								<0.125
8/30/2017		0.04 (J)	0.07 (J)	<0.125	0.08 (J)	0.04 (J)	<0.125	<0.125	
2/27/2018	<0.125	0.07 (J)	0.08 (J)	<0.125	0.07 (J)	0.04 (J)	<0.125	<0.125	<0.125
2/28/2018									
6/4/2018		0.07 (J)	0.09 (J)						
6/5/2018	0.04 (J)			<0.125	0.1	0.04 (J)	<0.125	<0.125	<0.125
6/6/2018									
11/5/2018						<0.125			
11/6/2018		0.04 (J)	0.07 (J)	<0.125	0.08 (J)		<0.125	<0.125	<0.125
11/7/2018	<0.125								
3/26/2019	<0.125			<0.125			<0.125		<0.125
3/27/2019		0.192	0.089 (J)		<0.125	<0.125		<0.125	
9/9/2019			0.163						
9/10/2019	0.0545 (J)	0.179							
9/11/2019				<0.125	<0.125	0.0518 (J)	<0.125	<0.125	<0.125
4/20/2020									
4/21/2020		0.12	0.126	<0.125			<0.125		<0.125
4/22/2020	<0.125				<0.125	<0.125		<0.125	
8/11/2020								<0.125	
8/12/2020	<0.125				<0.125	<0.125			
8/17/2020		0.115	0.0753 (J)						
8/18/2020				<0.125			<0.125		<0.125
8/19/2020									
3/9/2021									
3/10/2021	<0.125								
3/15/2021				<0.125	<0.125	<0.125	<0.125	<0.125	<0.125
3/16/2021		0.129	0.185						
8/17/2021		0.158	0.0974 (J)						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-26 (bg)GC-AP-MW-28 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	0.159 (J)	0.055 (J)
9/19/2016		
9/20/2016	0.126 (J)	0.021 (o)
10/11/2016		
10/12/2016	0.1 (J)	<0.125
11/14/2016		
11/15/2016	0.016 (J)	<0.125
1/3/2017		
1/4/2017	<0.125	<0.125
3/13/2017	0.31 (o)	
3/14/2017		<0.125
3/15/2017		
5/9/2017	0.25 (o)	<0.125
5/10/2017		
6/27/2017	0.22 (o)	<0.125
6/28/2017		
8/29/2017	0.22 (o)	
8/30/2017		<0.125
2/27/2018	0.08 (J)	<0.125
2/28/2018		
6/4/2018		
6/5/2018	0.07 (J)	<0.125
6/6/2018		
11/5/2018		
11/6/2018	0.07 (J)	<0.125
11/7/2018		
3/26/2019	<0.125	<0.125
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	0.0716 (J)	0.0649 (J)
4/20/2020		
4/21/2020	<0.125	<0.125
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.125	<0.125
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.125	<0.125
3/16/2021		
8/17/2021		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-26 (bg)	GC-AP-MW-28 (bg)
8/18/2021	<0.125	<0.125
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022		<0.125
3/29/2022		
3/30/2022		
4/4/2022	<0.125	
4/5/2022		
4/6/2022		

Prediction Limit

Constituent: pH (SU) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-9	GC-AP-MW-11	GC-AP-MW-7
2/16/2016	6.29	6.84	6.16	7.15	6.4	6.21	6.5		
2/17/2016								6.04	6.45
4/12/2016					6.41	6.37			
4/13/2016	6.21	7.03	6.29	7.1			6.32	6.07	6.49
5/31/2016	6.45	6.94			6.22	6.42		6.03	6.43
6/1/2016			6.33	6.76			6.43		
8/15/2016									
8/16/2016	6.58	6.84		6.99	6.41			6.09	
8/17/2016			6.27			6.42	6.46		6.43
9/19/2016									
9/20/2016									
10/11/2016									
10/12/2016	6.6	6.75	6.3	6.89	6.42	6.38	6.53	6.06	6.46
10/31/2016									
11/1/2016					6.55	6.33			
11/2/2016									
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									
1/25/2017	6.47	6.87	6.27	6.84	6.76	6.37	6.45	5.94	6.43
1/26/2017									
3/13/2017									
3/14/2017						6.3		6.08	6.41
3/15/2017	6.54	6.9	6.27	6.78	6.82		6.39		
5/9/2017		6.85		6.83	6.7	6.43		6.07	
5/10/2017	6.53		6.25				6.39		6.41
5/31/2017									
6/27/2017									
6/28/2017	6.49	6.85	6.25	6.98	6.58	6.4	6.4	6.02	6.46
8/29/2017	6.49	6.86	6.32	6.8	6.4	6.32	6.47	6.19	6.46
8/30/2017									
2/27/2018	6.59		6.36			6.28	6.54	6.21	6.45
2/28/2018		6.94		6.87	6.72				
6/4/2018									
6/5/2018	6.52		6.3				6.47	6.27	6.36
6/6/2018		6.99		6.94	6.57	6.25			
9/10/2018				6.74				6.33	
9/11/2018	6.53	6.87	6.36		6.64		6.53		6.38
9/12/2018						6.42			
11/5/2018		6.81		6.66	6.69			6.26	
11/6/2018									
11/7/2018	6.51		6.31			6.42	6.49		6.37
3/26/2019		6.95	6.32	6.84	6.54		6.47		6.39
3/27/2019	6.53					6.41		6.37	
9/9/2019									
9/10/2019	6.33	6.69	6.31	6.58		6.11	6.43	5.91	6.39
9/11/2019					6.22				

Prediction Limit

Constituent: pH (SU) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-9	GC-AP-MW-11	GC-AP-MW-7
4/20/2020					6.68				
4/21/2020		6.96	6.06	6.81		6.31	6.25		6.39
4/22/2020	6.44							6.26	
8/11/2020						6.02			
8/12/2020									
8/17/2020									
8/18/2020	6.33	6.98		6.31	6.76		6.21	6	
8/19/2020			6.06						6.14
3/9/2021			6.31			6.48	6.14		6.45
3/10/2021		6.89		6.26				5.97	
3/15/2021	6.29				6				
3/16/2021									
8/17/2021									
8/18/2021									
8/23/2021									
8/24/2021	6.04		6.16				6.08		6.4
8/25/2021		7.04		6.51	6.66	6.21		6.38	
3/28/2022									
3/29/2022		6.44	6.21				5.61		6.62
3/30/2022				6.09				6.02	
4/4/2022	6.21 (D)					6.39 (D)			
4/5/2022									
4/6/2022					6.24				

Prediction Limit

Constituent: pH (SU) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-5	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25
2/16/2016									
2/17/2016	6.02	6.18	6.32	6.63	6.23	6.01	6.8	5.39	5.36
4/12/2016	6.17			6.59	6.3		6.54	5.29	5.31
4/13/2016		6.28	6.44			6.17			
5/31/2016	6.15			6.57					
6/1/2016		6.36	6.24		6.24	6.18	6.49	5.39	5.35
8/15/2016		6.37	6.34		6.25	6.12			
8/16/2016	6.21						6.57	5.51	
8/17/2016				6.72					5.38
9/19/2016									
9/20/2016									
10/11/2016	6.14			6.69		6.09	6.54	5.44	5.31
10/12/2016		6.32	6.42		6.26				
10/31/2016									
11/1/2016	6.15								
11/2/2016		6.33	6.48		6.3		6.54	5.49	5.39
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	6.11	6.29	6.53	6.61	6.3	6.04	6.42	5.44	5.29
1/25/2017									
1/26/2017									
3/13/2017									
3/14/2017	6.09	6.27	6.43	6.55	6.31	6.11	6.59	5.48	5.19
3/15/2017									
5/9/2017				6.65		6.1	6.42		5.29
5/10/2017	6.11	6.3	6.33		6.34			5.43	
5/31/2017									
6/27/2017	6.09	6.28	6.38		6.32		6.44		
6/28/2017				6.66		6.09		5.49	5.27
8/29/2017							6.43	5.46	5.27
8/30/2017	6.1	6.34	6.31	6.66	6.38	6.07			
2/27/2018				6.73		6.09	6.49	5.48	
2/28/2018	6.11	6.33	6.57		6.31				5.28
6/4/2018						6.07			
6/5/2018	6.05	6.29	6.21	6.63	6.16		6.43	5.31	
6/6/2018									5.21
9/10/2018						6			
9/11/2018	6.18			6.65			6.35	5.36	
9/12/2018		6.36	6.43		6.29				5.23
11/5/2018									
11/6/2018	6.09	6.37	6.47	6.65	6.31	6.04			5.28
11/7/2018							6.37	5.34	
3/26/2019	6.1	6.34	6.52		6.3		6.46	5.32	
3/27/2019				6.59		6.06			5.27
9/9/2019			5.84		6.28	6.13			
9/10/2019	5.82	6.35					5.85	4.9	5.15
9/11/2019				6.36					

Prediction Limit

Constituent: pH (SU) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-5	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25
4/20/2020	6.16	6.43							
4/21/2020			6.61	6.5	6.31	5.99	6.26		
4/22/2020								5.3	5.26
8/11/2020		6.7	6.71						4.81
8/12/2020	6.1			6.36	6.62		6.03	5.04	
8/17/2020						5.91			
8/18/2020									
8/19/2020									
3/9/2021		6.29	6.52		6.39				
3/10/2021	6.08						6.17	5.14	5.71
3/15/2021									
3/16/2021				6.64		5.87			
8/17/2021		6.33	6.57		6.38	5.99			
8/18/2021									
8/23/2021				6.5					
8/24/2021							6.09	5.16	5.25
8/25/2021	6.12								
3/28/2022						5.32	6.08		
3/29/2022	5.81								5.26
3/30/2022									
4/4/2022			6.71 (D)	6.42 (D)				4.4 (D)	
4/5/2022									
4/6/2022		6.42 (D)			6.29 (D)				

Prediction Limit

Constituent: pH (SU) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-1	GC-AP-MW-3	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	6.46	5.8	6.29						
4/12/2016	6.45		6.33						
4/13/2016		5.85							
5/31/2016	6.51								
6/1/2016		5.92	6.4						
8/15/2016		5.99	6.36						
8/16/2016				6.34	7.13	6	5.39	6.21	
8/17/2016	6.54								5.85
9/19/2016				6.11	6.94	6			
9/20/2016							5.37	6.05	5.82
10/11/2016	6.53	6.02	6.38	5.99	6.82	6.02	5.39	6.2	
10/12/2016									5.76
10/31/2016							5.36	6.61	
11/1/2016				5.84	6.71	5.97			
11/2/2016									
11/14/2016				5.83	6.57	5.98			
11/15/2016							5.33	6.64	5.79
11/28/2016				5.79	6.57	6			
11/29/2016							5.33	6.39	5.73
1/3/2017				5.39	6.56	6.03			
1/4/2017							5.49	6.06	5.69
1/23/2017							5.48		5.45
1/24/2017	6.44	5.92	6.34		6.41	5.9			
1/25/2017				5.09					
1/26/2017								6.02	
3/13/2017								5.68	4.8
3/14/2017	6.4	5.96	6.42	4.99	6.37	6.07	5.17		
3/15/2017									
5/9/2017		5.93	6.35				5.11	5.05	4.82
5/10/2017	6.4			4.63	6.41	6			
5/31/2017						6.02			
6/27/2017		5.86		4.76	6.14	6.05	5.29	4.9	5.27
6/28/2017	6.46		6.32						
8/29/2017	6.47								5.28
8/30/2017		5.88	6.32	4.85	6.08	6.13	5.09	4.73	
2/27/2018	6.53	5.92	6.39	4.69	5.99	6.1	5.25	4.87	5.11
2/28/2018									
6/4/2018		5.89	6.4						
6/5/2018	6.49			4.62	5.93	6.05	5.12	4.89	5.24
6/6/2018									
9/10/2018		5.89							
9/11/2018	6.48			4.79	5.86	6.07	5.19	4.88	5.28
9/12/2018			6.35						
11/5/2018						6.01			
11/6/2018		5.95	6.34	4.62	5.89		5.12	4.86	5.54
11/7/2018	6.48								
3/26/2019	6.54						5.16	4.97	5.4
3/27/2019		5.8	6.44	4.68	5.95	6.15			
9/9/2019			6.22						
9/10/2019	6.55	5.88							
9/11/2019				4.57	5.85	5.87	4.11	3.96	5.53

Prediction Limit

Constituent: pH (SU) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-27 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	6.15	5.47
9/19/2016		
9/20/2016	4.99	5.22
10/11/2016		
10/12/2016	4.88	5.1
10/31/2016	4.87	
11/1/2016		
11/2/2016		
11/14/2016		
11/15/2016	4.81	5.07
11/28/2016		
11/29/2016	4.84	5.1
1/3/2017		
1/4/2017	4.88	5.3
1/23/2017		5.12
1/24/2017	5.4	
1/25/2017		
1/26/2017		
3/13/2017		
3/14/2017	5.13	4.74
3/15/2017		
5/9/2017	4.96	4.83
5/10/2017		
5/31/2017		
6/27/2017	5.34	4.87
6/28/2017		
8/29/2017		4.71
8/30/2017	4.69	
2/27/2018	4.91	4.96
2/28/2018		
6/4/2018		
6/5/2018	4.87	5
6/6/2018		
9/10/2018		
9/11/2018	4.65	4.94
9/12/2018		
11/5/2018		
11/6/2018	4.67	4.9
11/7/2018		
3/26/2019	4.92	4.96
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	4.33	4.85

Prediction Limit

Constituent: pH (SU) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)
4/20/2020		
4/21/2020	4.07	4.29
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	4.59	4.75
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	4.45	4.73
3/16/2021		
8/17/2021		
8/18/2021	3.78	4.52
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	4.69	4.73
3/29/2022		
3/30/2022		
4/4/2022		
4/5/2022		
4/6/2022		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-9	GC-AP-MW-3	GC-AP-MW-23 (bg)
2/16/2016	125	108	113	9.03	49.4	119	45.2		
2/17/2016								<1	14.7
4/12/2016		114	86.7					0.49 (J)	20
4/13/2016	119			10.7	51.7	122	43.9		
5/31/2016		114	83.1	10.2		94.3			
6/1/2016	99.2				51.2		32	0.544 (J)	20.1
8/15/2016								0.332 (J)	
8/16/2016	71.9		59.3	9.1		67.1			19.1
8/17/2016		85.4			42.9		31.9		
9/19/2016									
9/20/2016									
10/11/2016								<1	18.4
10/12/2016	93.9	53.5	99.3	7.24	39.5	94.1	39.6		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								<1	15
1/25/2017	103	75.4	113	9.71	31.3	101	44		
1/26/2017									
5/9/2017	100	84	74			91		2.1 (J)	14
5/10/2017				11	30		32		
6/27/2017									14
6/28/2017	69	120	71	10	35	71	34	<1	
8/29/2017	77	180	72	14	40	80	34		16
8/30/2017								<1	
6/4/2018								1.4 (J)	
6/5/2018				39	25		22		14
6/6/2018	81	450	48			62			
9/10/2018	64								
9/11/2018			62	29	23	63	33		13
9/12/2018		200						<1	
11/5/2018	68		81			74			
11/6/2018								<1	
11/7/2018		180		45	30		76		14
3/26/2019	92		92.4		21.6	92.3	138		12.3
3/27/2019		335		66.2				6.64	
9/9/2019								6.56	
9/10/2019	63.1	193		50.5	37.4	89.3	115		12.4
9/11/2019			128						
4/20/2020			76.5					10.5	
4/21/2020	99	168			43.3	121	133		10.2
4/22/2020				63.2					
8/11/2020		242							
8/12/2020									10.2
8/17/2020								17.3	
8/18/2020	63.4		203	58.6		89	115		
8/19/2020					44.5				
3/9/2021		165			71.7		107		
3/10/2021	51.7					155			11.8
3/15/2021			204	68.5					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-9	GC-AP-MW-3	GC-AP-MW-23 (bg)
3/16/2021								7.62	
8/17/2021								12	
8/18/2021									
8/23/2021									
8/24/2021				71.6	71.4		139		11.6
8/25/2021	76.1	346	181			118			
3/28/2022									11.8
3/29/2022					75.3	108	193		
3/30/2022	115								
4/4/2022		195.5 (D)		116.5 (D)					
4/5/2022								14.95 (D)	
4/6/2022			157						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-2	GC-AP-MW-18	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-7	GC-AP-MW-15	GC-AP-MW-5	GC-AP-MW-25
3/16/2021		548						167	
8/17/2021		502	12.2	32.8	46.6				
8/18/2021									
8/23/2021								155	
8/24/2021						234			66.6
8/25/2021	126						153		
3/28/2022		563							
3/29/2022						187	165		68.6
3/30/2022	125								
4/4/2022				68.9 (D)				160	
4/5/2022									
4/6/2022			16.05 (D)		45.3 (D)				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-24 (bg)	GC-AP-MW-1	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	132	10.4	785						
4/12/2016	130	11.3							
4/13/2016			715						
5/31/2016	111								
6/1/2016		10.4	832						
8/15/2016			862						
8/16/2016		12.2		9.33	2.06	1.78	0.894 (J)	0.702 (J)	
8/17/2016	95.8								0.928 (J)
9/19/2016				11.2	1.44	2.06			
9/20/2016							<1	<1	0.478 (J)
10/11/2016	101	19.8	888	12.6	1.38	2.33	<1	<1	
10/12/2016									0.727 (J)
11/14/2016				12.4	1.15	2.31			
11/15/2016							1.19	<1	0.448 (J)
1/3/2017				14.3	1.57	2.81			
1/4/2017							<1	<1	0.627 (J)
1/23/2017								0.493 (J)	1.34
1/24/2017	129	30.7	906		2.06	3.34			
1/25/2017				15.2					
1/26/2017							0.6 (J)		
5/9/2017			810				<1	<1	<1
5/10/2017	120	33		12	2.1 (J)	2.9 (J)			
6/27/2017			830	13	2.7 (J)	3.4 (J)	<1	<1	<1
6/28/2017	100	56							
8/29/2017	95	61							<1
8/30/2017			910	15	2.6 (J)	3.7 (J)	<1	<1	
6/4/2018			850						
6/5/2018	98	97		17	3.1 (J)	3.7 (J)	1.4 (J)	<1	2.1 (J)
6/6/2018									
9/10/2018			920						
9/11/2018	100	83		16	1.6 (J)	2.2 (J)	<1	<1	<1
9/12/2018									
11/5/2018					2.4 (J)				
11/6/2018			880	15		3.1 (J)	<1	<1	<1
11/7/2018	97	91							
3/26/2019	120	103					0.594 (J)	<1	1.66
3/27/2019			1090	15.1	3.24	3.55			
9/9/2019									
9/10/2019	140	83.4	992						
9/11/2019				14.5	2.66	3.83	<1	<1	1.29
4/20/2020									
4/21/2020	153		874				0.694 (J)	<1	2.21
4/22/2020		84.7		9.64	2.51	3.78			
8/11/2020						4.33			
8/12/2020		82.2		13.6	2.54				
8/17/2020			919						
8/18/2020							0.608 (J)	<1	1.57
8/19/2020	163								
3/9/2021	187								
3/10/2021		99.9							
3/15/2021				2.76	8.5	3.74	<1	<1	2.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	6.46	16.2
9/19/2016		
9/20/2016	8.3	14.9
10/11/2016		
10/12/2016	8.36	12.4
11/14/2016		
11/15/2016	8.75	8.6
1/3/2017		
1/4/2017	7.85	12.2
1/23/2017		16
1/24/2017	6.62	
1/25/2017		
1/26/2017		
5/9/2017	5.6	55
5/10/2017		
6/27/2017	5.3	45
6/28/2017		
8/29/2017		37
8/30/2017	8.2	
6/4/2018		
6/5/2018	8.3	9.3
6/6/2018		
9/10/2018		
9/11/2018	8.9	7.8
9/12/2018		
11/5/2018		
11/6/2018	8.6	6
11/7/2018		
3/26/2019	10.1	6.86
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	10.6	5.29
4/20/2020		
4/21/2020	9.4	6.28
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	10.3	9.57
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	10.4	7.66

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-28 (bg)	GC-AP-MW-26 (bg)
3/16/2021		
8/17/2021		
8/18/2021	10.1	7.07
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	11.2	
3/29/2022		
3/30/2022		
4/4/2022		12.5
4/5/2022		
4/6/2022		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-9	GC-AP-MW-3	GC-AP-MW-23 (bg)
2/16/2016	264	340	242	312	656	264	226		
2/17/2016								358	142
4/12/2016		298	176					393	155
4/13/2016	226			324	634	238	202		
5/31/2016		309	189	333		206			
6/1/2016	231				672		224	381	148
8/15/2016								348	
8/16/2016	181		192	327		180			132
8/17/2016		269			624		290		
9/19/2016									
9/20/2016									
10/11/2016								379	
10/12/2016	225			312	586	223	315		
10/31/2016									
11/1/2016		252	244						
11/2/2016									115
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								354	107
1/25/2017	277	259	274	286	596	271	332		
1/26/2017									
5/9/2017	255	285	191			236		368	80.7
5/10/2017				326	576		361		
6/27/2017									96.7
6/28/2017	175	348	176	304	612	198	396	368	
8/29/2017	218	528	163	348	640	187	402		120
8/30/2017								370	
6/4/2018								369	
6/5/2018				346	474		448		113
6/6/2018	207	932	138			199			
9/10/2018	197								
9/11/2018			185	335	496	184	462		108
9/12/2018		180						354	
11/5/2018	200		208			210			
11/6/2018								354	
11/7/2018		528		342	514		506		96.7
3/26/2019	218		198		546	230	586		103
3/27/2019		834		347				362	
9/9/2019								371	
9/10/2019	198	658		351	601 (D)	218 (D)	586		107
9/11/2019			316						
4/20/2020			201					371	
4/21/2020	265	628			638	291	578		107
4/22/2020				338					
8/11/2020		688							
8/12/2020									96
8/17/2020								361	
8/18/2020	179		444	376		250	542		
8/19/2020					658				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-9	GC-AP-MW-3	GC-AP-MW-23 (bg)
3/9/2021		618			746		532		
3/10/2021	296					331			105
3/15/2021			374	406					
3/16/2021								340	
8/17/2021								297	
8/18/2021									
8/23/2021									
8/24/2021				423	690		624		96.7
8/25/2021	207	774	359			263			
3/28/2022									96
3/29/2022					730	290	800		
3/30/2022	320								
4/4/2022		644 (D)		443.5 (D)					
4/5/2022								338 (D)	
4/6/2022			298						

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-2	GC-AP-MW-18	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-7	GC-AP-MW-15	GC-AP-MW-5	GC-AP-MW-25
2/16/2016									
2/17/2016	158	516	464	328	310	892	408	238	144
4/12/2016			491				334	316	140
4/13/2016	161	508		373	372	1010			
5/31/2016	173					1100	351	320	
6/1/2016		494	468	442	360				139
8/15/2016		476	454	392	366				
8/16/2016	173						367		
8/17/2016						1070		325	142
9/19/2016									
9/20/2016									
10/11/2016		508						333	
10/12/2016	173					1040			
10/31/2016									
11/1/2016							372		
11/2/2016			422	469	374				128
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017		510	408	464	380		354	336	124
1/25/2017	161					972			
1/26/2017									
5/9/2017	195	510						317	136
5/10/2017			358	492	381	740	332		
6/27/2017			382	516	404		331		
6/28/2017	227	480				914		373	145
8/29/2017	229					924			139
8/30/2017		478	392	646	420		317	432	
6/4/2018		528							
6/5/2018	200		352	644	408	1060	318	347	
6/6/2018									153
9/10/2018	183	472							
9/11/2018						1020	321	370	
9/12/2018			339	476	415				156
11/5/2018	193								
11/6/2018		522	368	634	447		331	409	153
11/7/2018						1050			
3/26/2019			406	516	481	1100	338 (D)		
3/27/2019	211	562						328	178
9/9/2019		666	409 (D)	500					
9/10/2019	201				453	1100	358		182
9/11/2019								455	
4/20/2020					461		369		
4/21/2020		878	429	490		1010		494	
4/22/2020	249								195
8/11/2020				522	482				193
8/12/2020			390				401	433	
8/17/2020		818							
8/18/2020	260								
8/19/2020						1050			

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-2	GC-AP-MW-18	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-7	GC-AP-MW-15	GC-AP-MW-5	GC-AP-MW-25
3/9/2021			412	684	524	1090			
3/10/2021	274						397		246
3/15/2021									
3/16/2021		890						510	
8/17/2021		808	397	506	490				
8/18/2021									
8/23/2021								481	
8/24/2021						930			224
8/25/2021	358						407		
3/28/2022		868							
3/29/2022						894	406		247
3/30/2022	280								
4/4/2022				553 (D)				488	
4/5/2022									
4/6/2022			408.5 (D)		472 (D)				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-28 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	65.3	64
9/19/2016		
9/20/2016	44	60
10/11/2016		
10/12/2016		54.7
10/31/2016	38.7	
11/1/2016		
11/2/2016		
11/28/2016		
11/29/2016	34	42
1/3/2017		
1/4/2017	42	56
1/23/2017		50.7
1/24/2017	45.3	
1/25/2017		
1/26/2017		
5/9/2017	49.3	126
5/10/2017		
6/27/2017	46	93.3
6/28/2017		
8/29/2017		84
8/30/2017	38.7	
6/4/2018		
6/5/2018	34.7	38.7
6/6/2018		
9/10/2018		
9/11/2018	34.7	35.3
9/12/2018		
11/5/2018		
11/6/2018	36	40.7
11/7/2018		
3/26/2019	30	36.7
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	40	40.7
4/20/2020		
4/21/2020	36	39.3
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	35.3	42
8/19/2020		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/1/2022 1:05 PM View: All
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-28 (bg)	GC-AP-MW-26 (bg)
3/9/2021		
3/10/2021		
3/15/2021	30	42.7
3/16/2021		
8/17/2021		
8/18/2021	32	43.3
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	38.7	
3/29/2022		
3/30/2022		
4/4/2022		40.7
4/5/2022		
4/6/2022		

FIGURE E.

Trend Test - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 1:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.0172	76	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2078	104	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.07797	124	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1243	90	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08488	78	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05048	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.00546	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03094	86	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.08416	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2024	111	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-16.33	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	2.867	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	6.611	93	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	17.34	99	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	4.579	103	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.345	149	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.432	117	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	13.77	100	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.384	-107	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	6.704	153	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1803	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1907	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.139	139	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	18.09	102	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.8313	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.07045	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.062	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	5.013	139	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02341	99	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01461	88	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.03135	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	13.22	137	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	12.94	91	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	26.41	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-7.9	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	43.7	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.304	-125	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	17.51	114	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4499	82	74	Yes	19	26.32	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.6488	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	30.28	137	74	Yes	19	5.263	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	19.82	80	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	16.36	114	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	21.14	129	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	81.94	76	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	27.67	149	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	28.55	94	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	56.1	91	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-6.395	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	26.07	108	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	16.37	121	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-6.287	-102	-74	Yes	19	57.89	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	36.19	127	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	87.78	148	74	Yes	19	0	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 1:11 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GC-AP-MW-1	0.0172	76	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	0.07468	38	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.03205	-51	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	0.02144	17	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.02241	21	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2078	104	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.07797	124	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1243	90	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08488	78	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05048	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.001889	32	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	0.002128	5	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	34	68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.00546	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	7	68	No	18	94.44	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	21	68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	7	68	No	18	94.44	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	11	68	No	18	94.44	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.03094	86	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.08416	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.05165	28	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2024	111	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-16.33	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	2.867	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	2.844	69	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	6.611	93	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	17.34	99	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	4.579	103	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.345	149	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.432	117	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-18	-0.8245	-18	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	13.77	100	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-21	0.4469	19	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.384	-107	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	6.704	153	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.3246	-39	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.04491	25	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1803	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1907	-103	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	-3.793	-39	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.139	139	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	3.117	59	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	-0.7706	-4	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.659	57	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	18.09	102	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-1	-0.1215	-6	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	0.1169	8	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.6636	-52	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.4994	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.8313	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-15	-0.1127	-18	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.4083	-52	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-1.015	-54	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.4917	72	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.3644	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	0.2131	17	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.07045	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (bg)	0.01314	1	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-0.77	-41	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.02146	-12	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.0869	63	74	No	19	5.263	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.06692	-57	-74	No	19	10.53	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.2286	-70	-74	No	19	10.53	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	-0.2765	-45	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-31	0.05755	53	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.062	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	2.111	68	74	No	19	0	n/a	n/a	0.01	NP

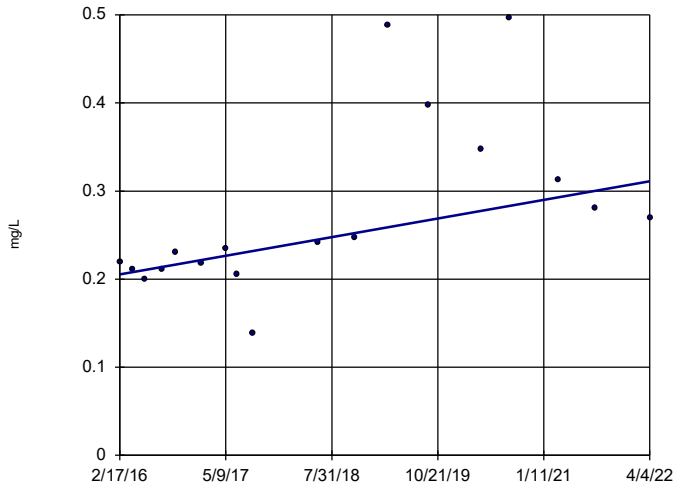
Trend Test - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/1/2022, 1:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-7	6.316	71	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	2.111	18	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	5.013	139	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	0.00487	33	74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02341	99	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01461	88	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.03135	81	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.002137	37	74	No	19	5.263	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	60	74	No	19	63.16	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	0	3	53	No	15	46.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	17	68	No	18	94.44	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	11	68	No	18	88.89	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	33	74	No	19	89.47	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0.002335	23	74	No	19	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.003724	31	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	20.65	51	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	13.22	137	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	12.94	91	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-12	1.353	5	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-13	11.74	46	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	26.41	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-7.9	-83	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	43.7	81	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-21	-6.219	-67	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.304	-125	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	17.51	114	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-1.736	-63	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4499	82	74	Yes	19	26.32	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.6488	101	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	26	74	No	19	52.63	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	30.28	137	74	Yes	19	5.263	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	11.48	61	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	-1.965	-6	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	19.82	80	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	18.43	20	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	16.36	114	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	21.14	129	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-12	10.43	45	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	18.79	60	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	81.94	76	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	7.03	36	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	27.67	149	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	28.55	94	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-10.17	-43	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	56.1	91	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-2.005	-5	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-6.395	-96	-74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	26.07	108	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	16.37	121	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (bg)	-3.514	-53	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.7289	46	74	No	19	26.32	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.224	-69	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-6.287	-102	-74	Yes	19	57.89	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-5.087	-58	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	36.19	127	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	21.04	60	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	3.847	12	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	10.43	27	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	87.78	148	74	Yes	19	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

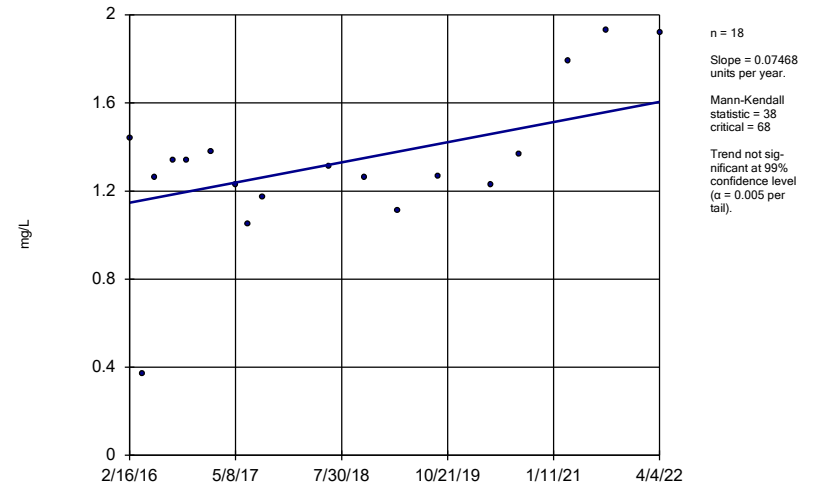
GC-AP-MW-1



Constituent: Boron Analysis Run 6/1/2022 1:08 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

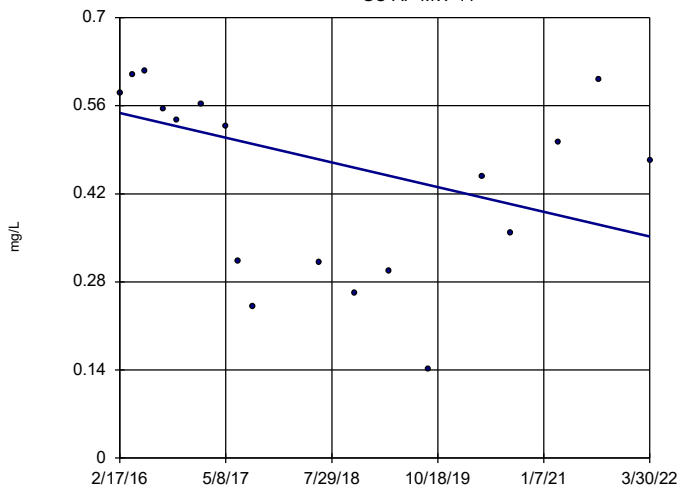
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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

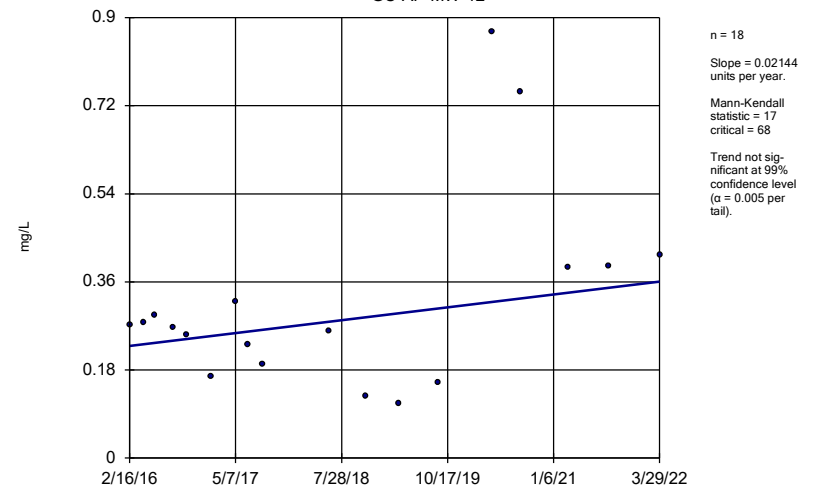
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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

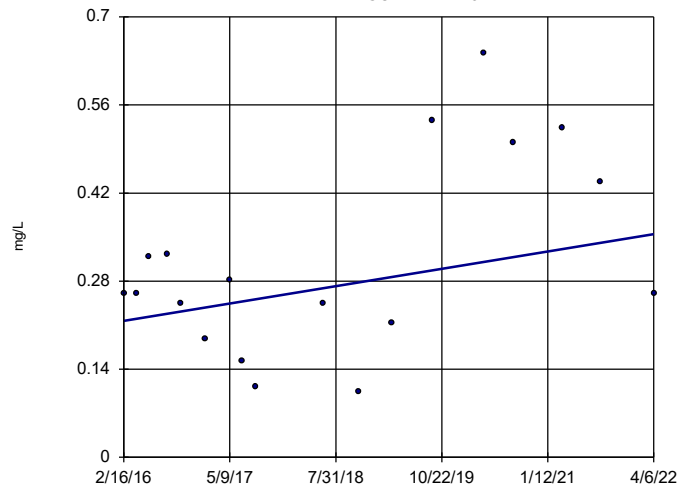
GC-AP-MW-12



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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-13

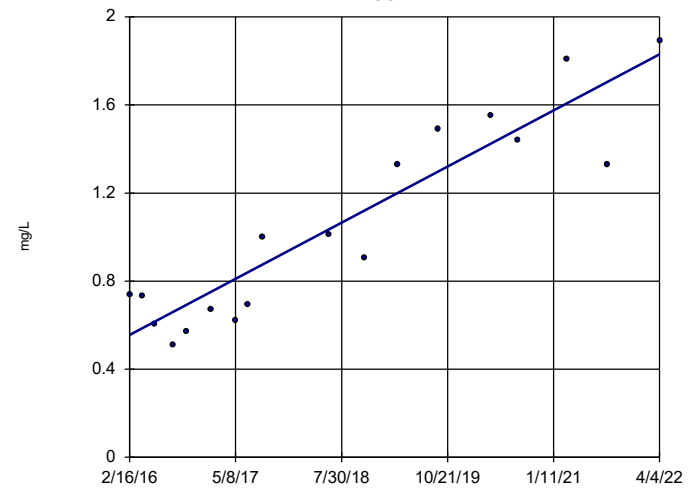


n = 18
Slope = 0.02241 units per year.
Mann-Kendall statistic = 21
critical = 68
Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron Analysis Run 6/1/2022 1:08 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-14

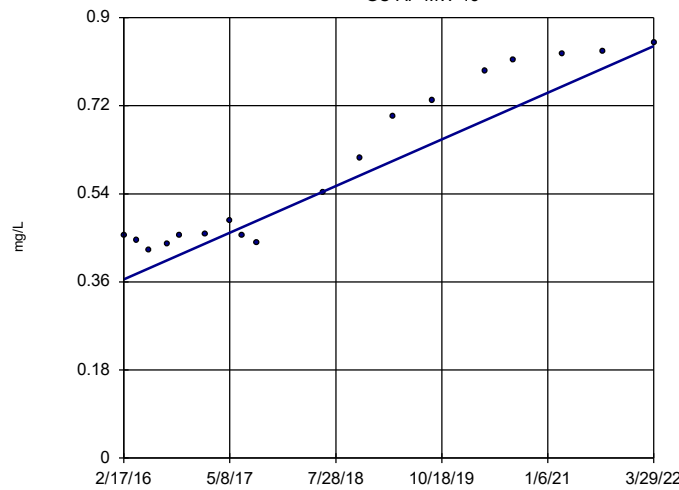


n = 18
Slope = 0.2078 units per year.
Mann-Kendall statistic = 104
critical = 68
Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron Analysis Run 6/1/2022 1:08 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-15

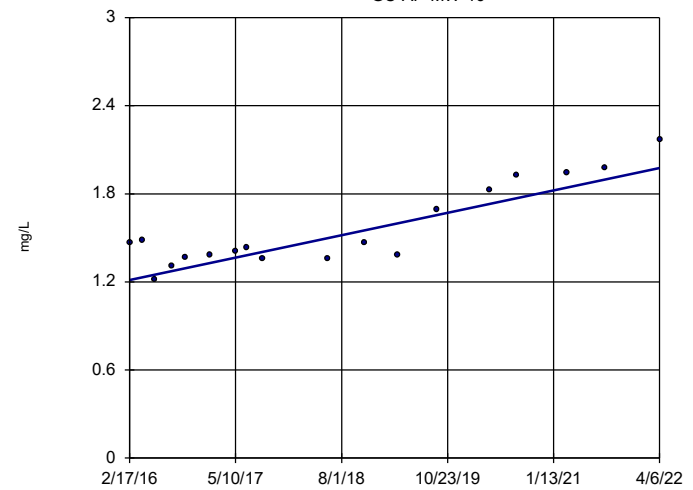


n = 18
Slope = 0.07797 units per year.
Mann-Kendall statistic = 124
critical = 68
Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Boron Analysis Run 6/1/2022 1:08 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

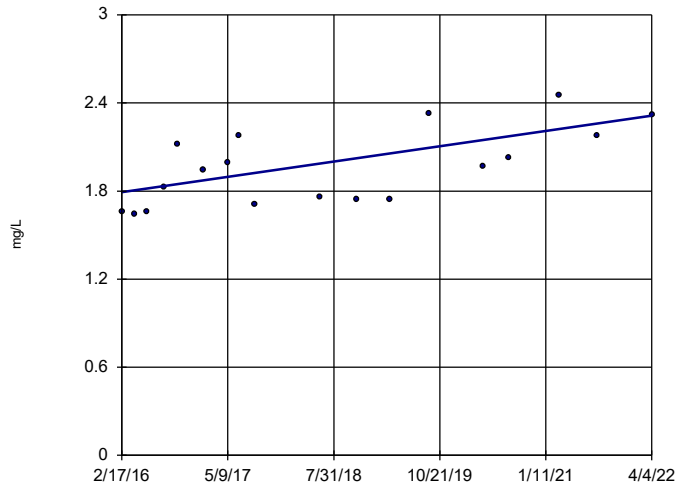
Sen's Slope Estimator

GC-AP-MW-16



Sen's Slope Estimator

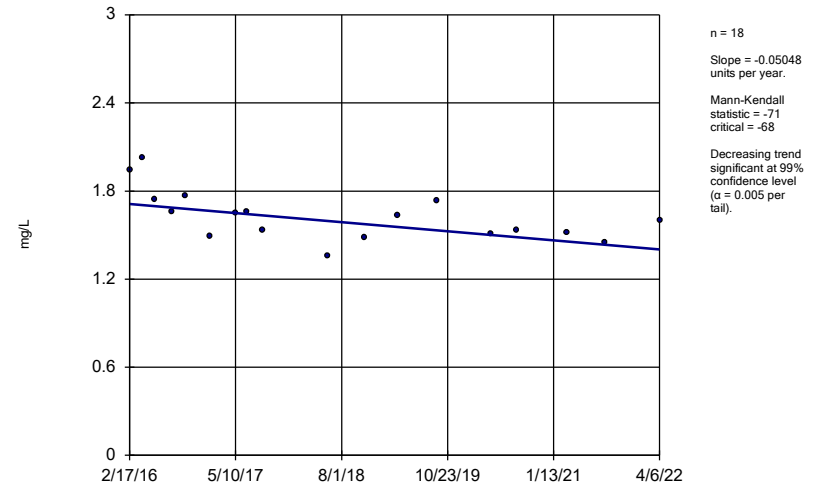
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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

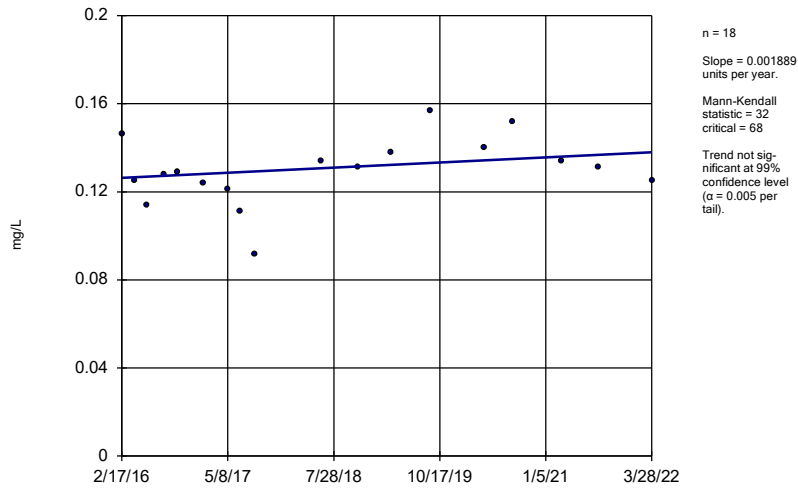
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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

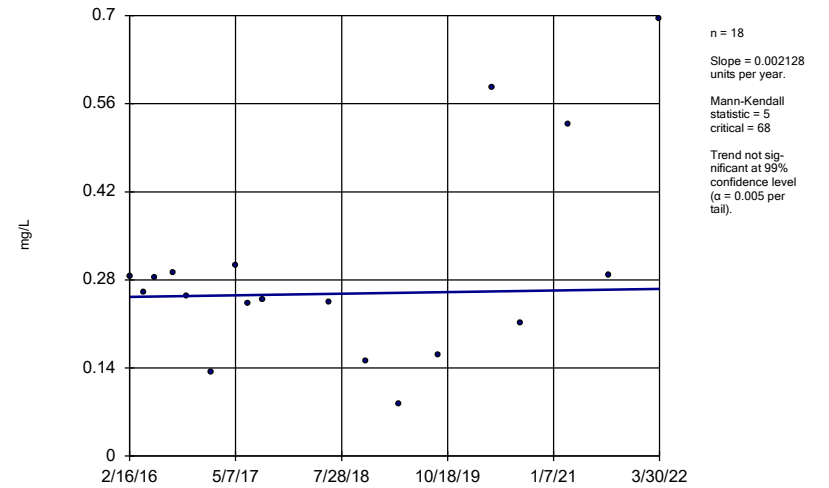
GC-AP-MW-2



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Plant Greene County Client: Southern Company Data: Greene County AP

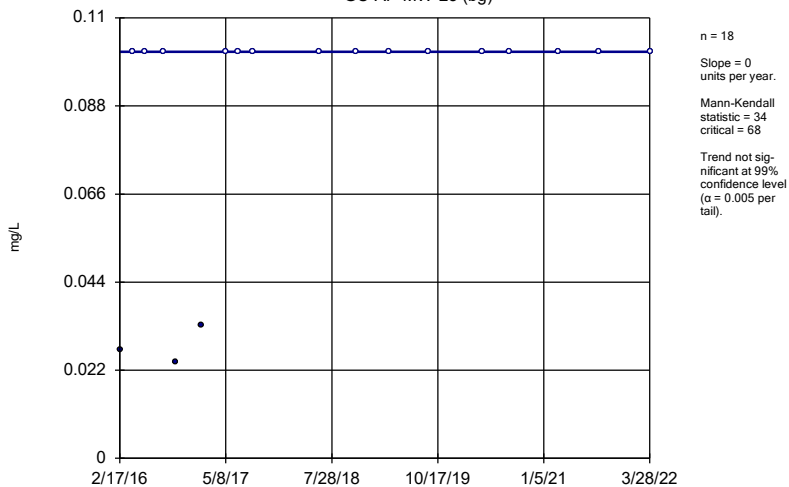
Sen's Slope Estimator

GC-AP-MW-21



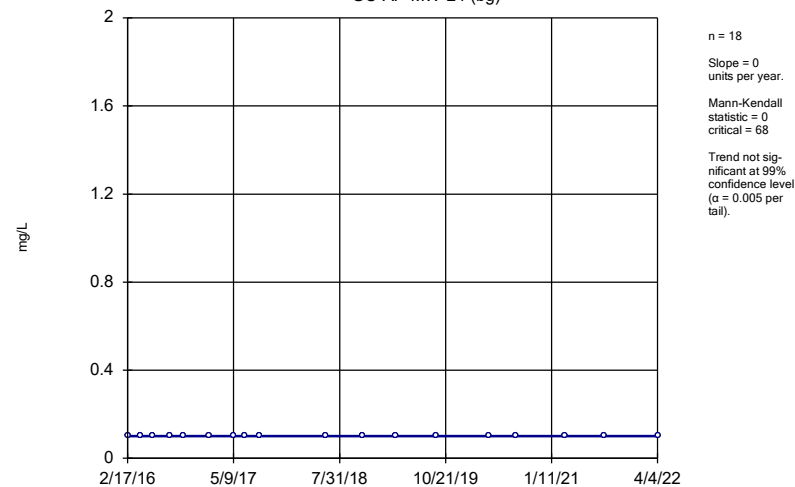
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Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-23 (bg)



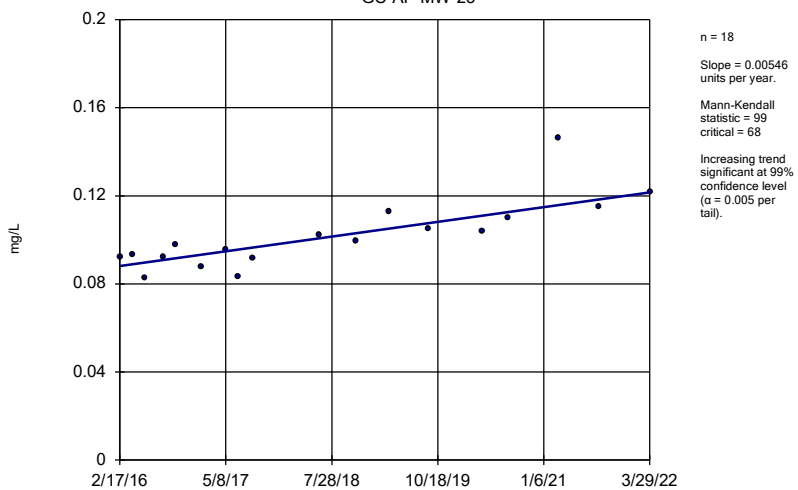
Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-24 (bg)



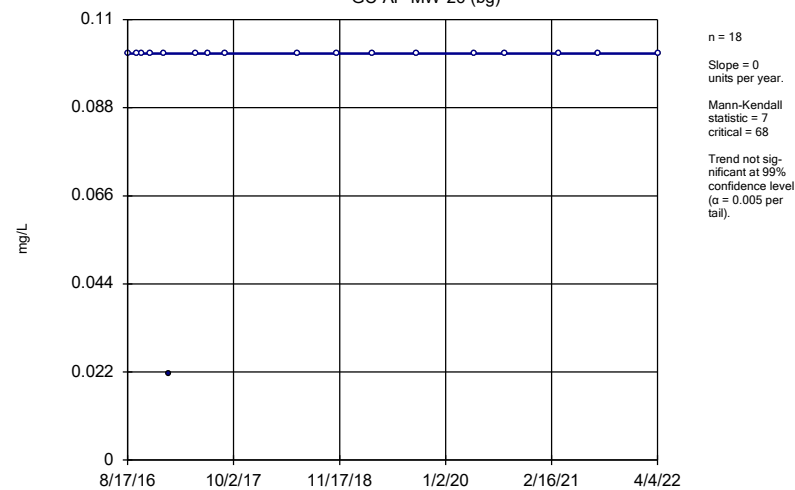
Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-25



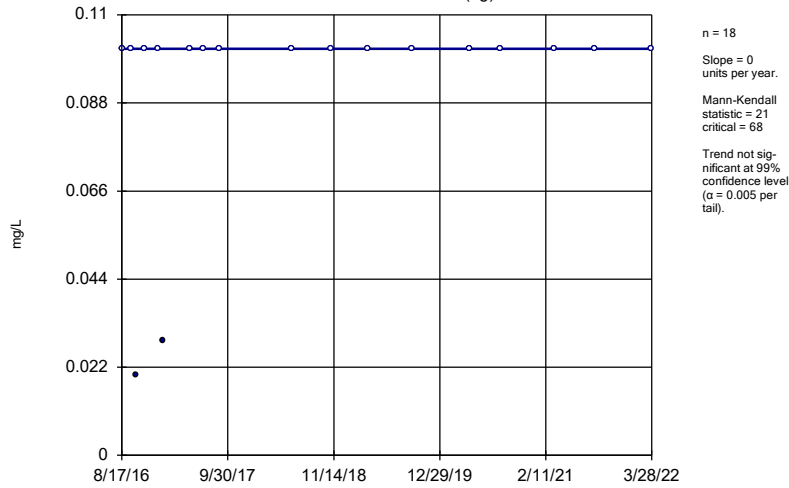
Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-26 (bg)



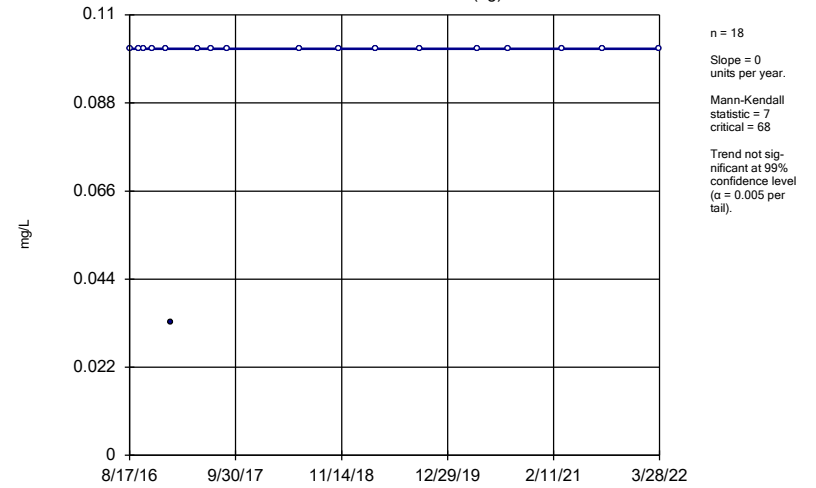
Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-27 (bg)



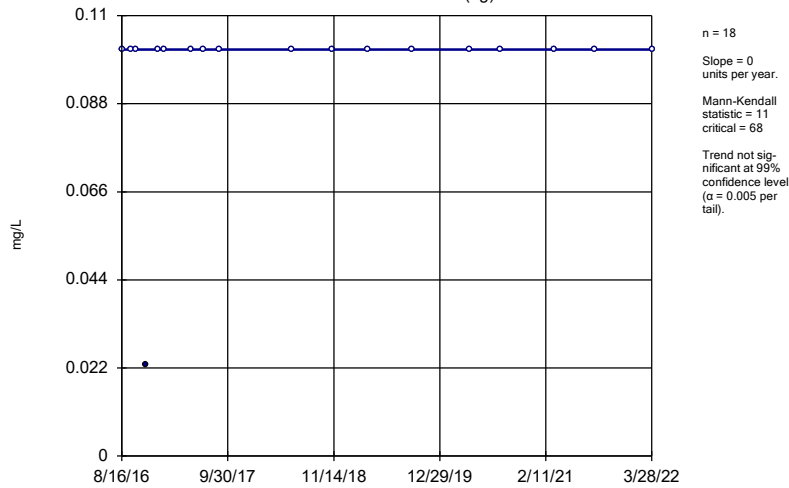
Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-28 (bg)



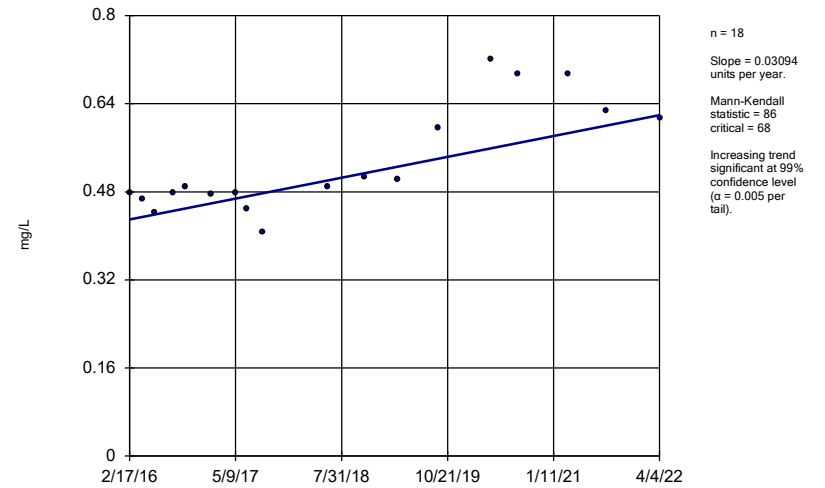
Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-29 (bg)



Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

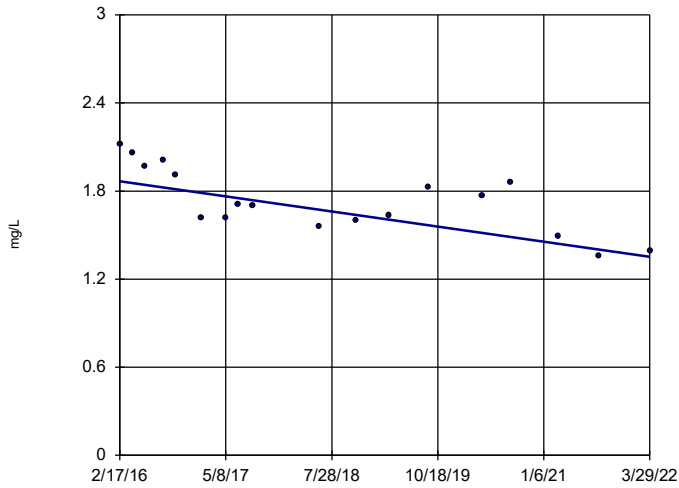
Sen's Slope Estimator GC-AP-MW-5



Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

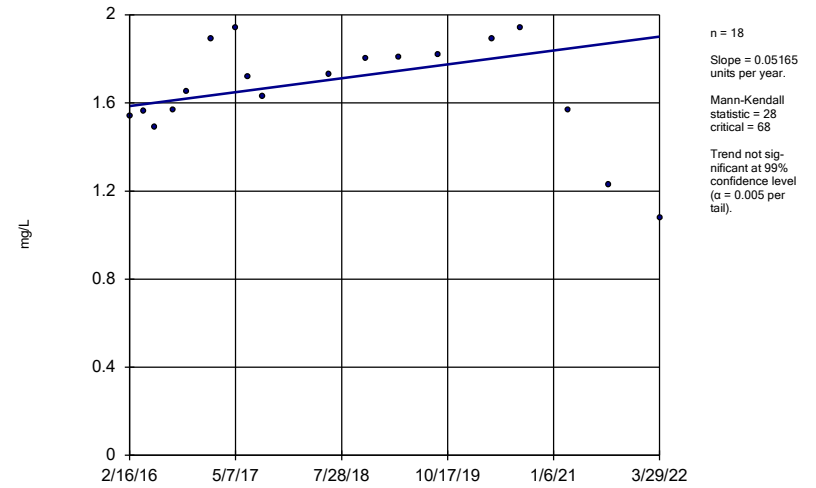
GC-AP-MW-6



Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

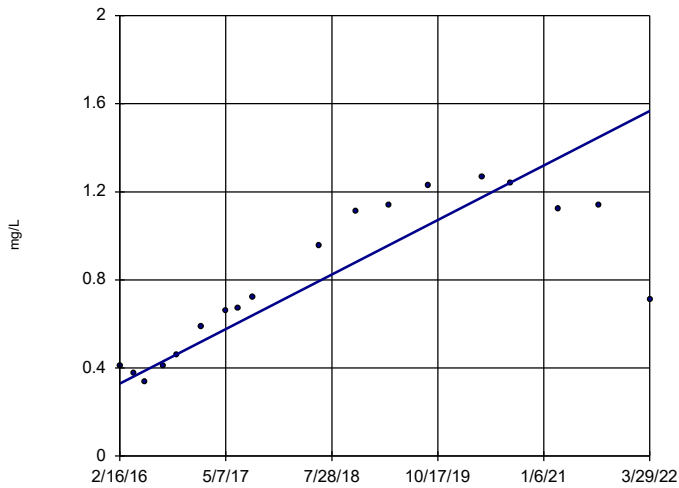
GC-AP-MW-8



Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

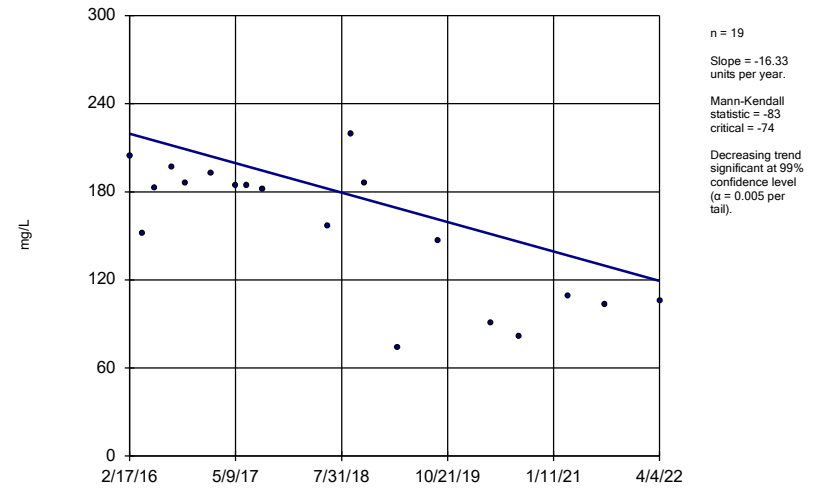
GC-AP-MW-9



Constituent: Boron Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

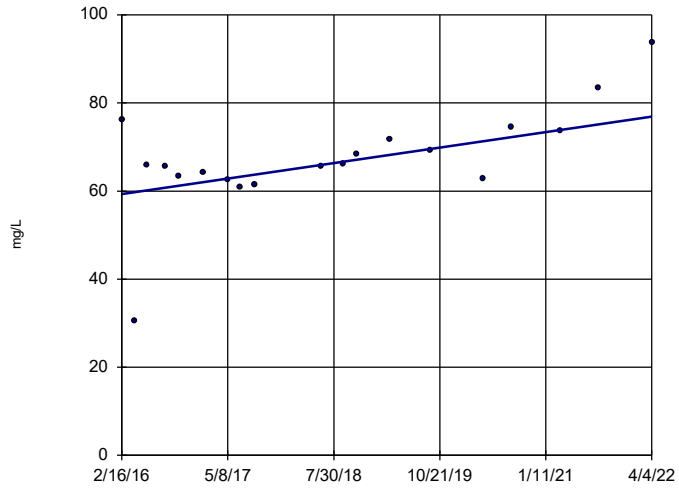
GC-AP-MW-1



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

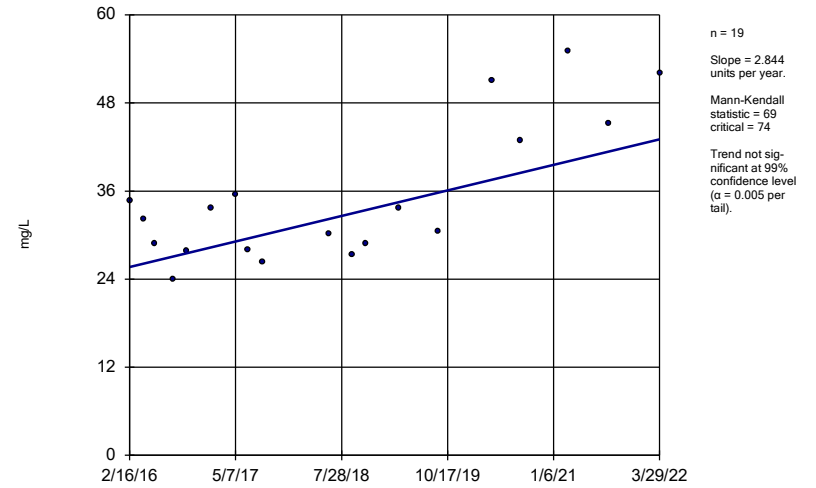
GC-AP-MW-10



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

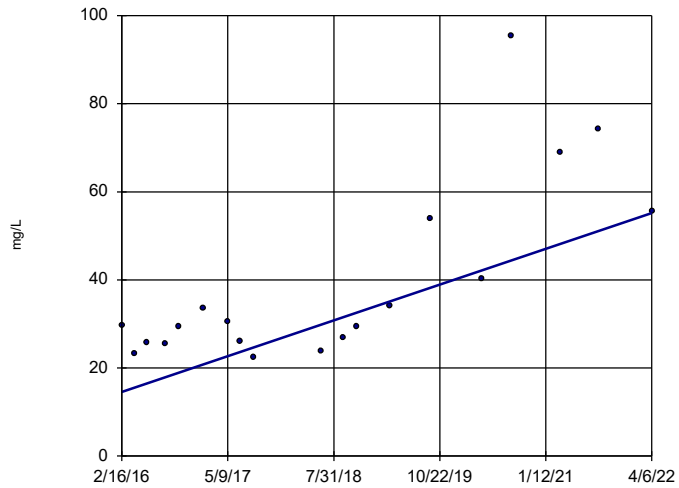
GC-AP-MW-12



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

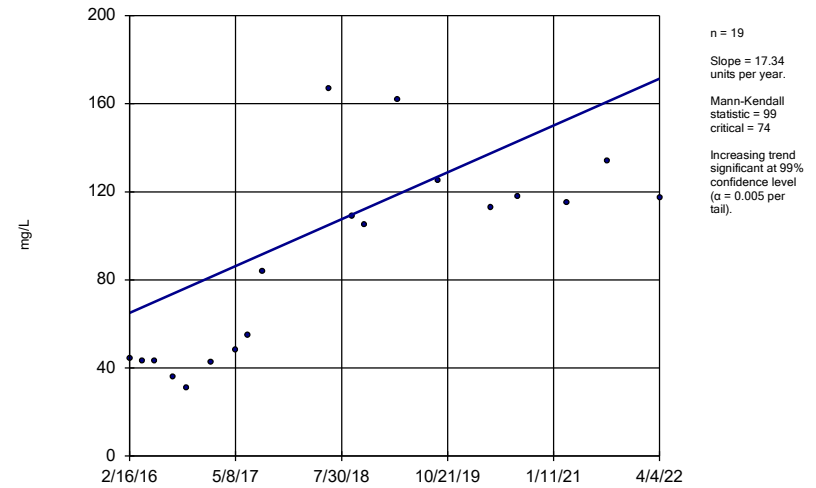
GC-AP-MW-13



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

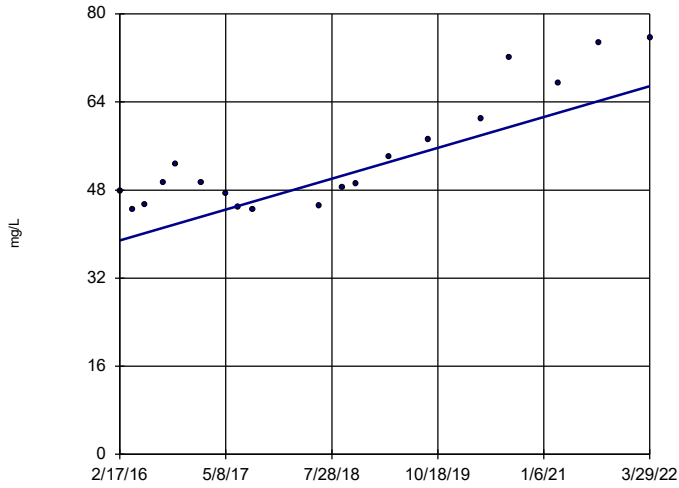
GC-AP-MW-14



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

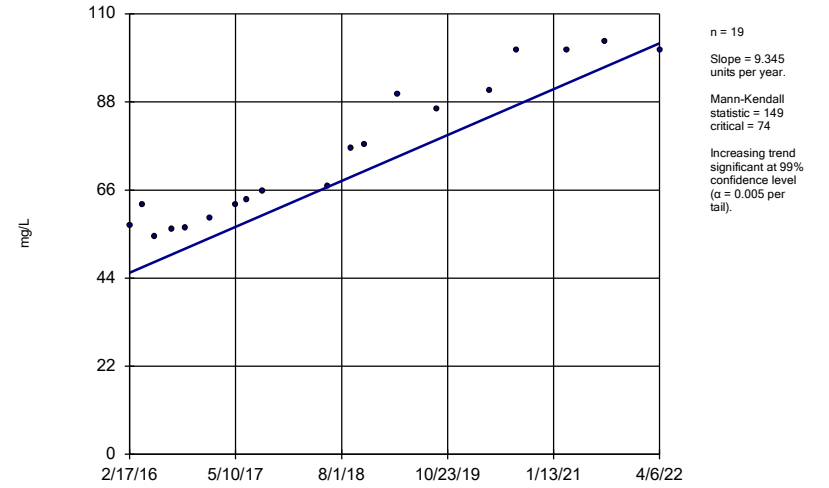
GC-AP-MW-15



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

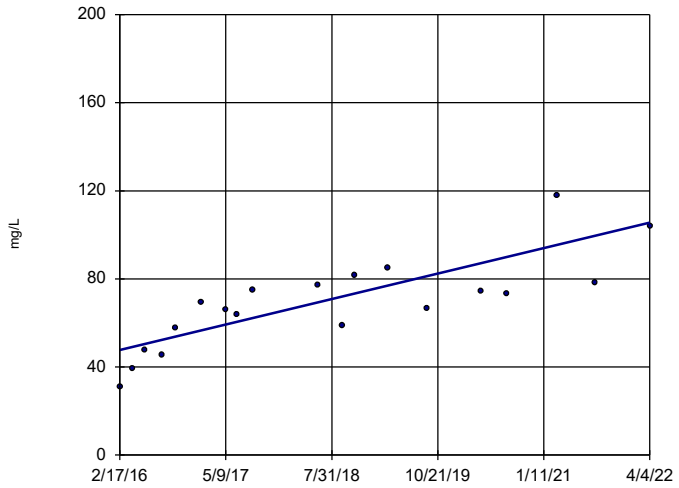
GC-AP-MW-16



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

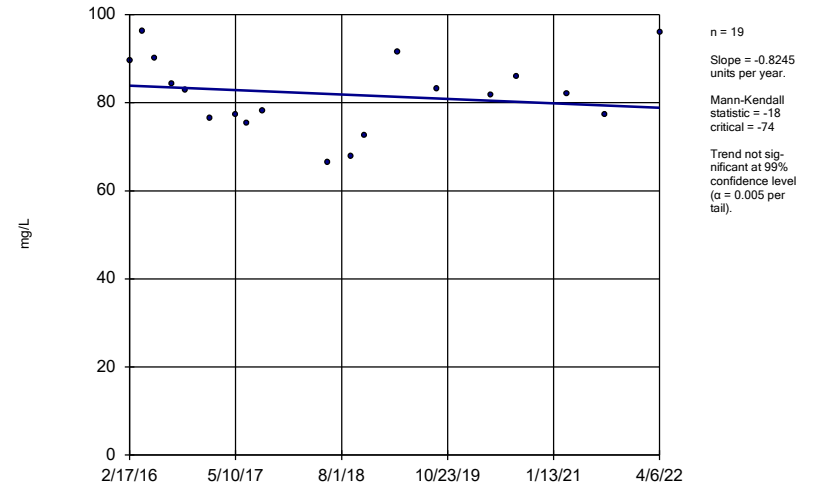
GC-AP-MW-17



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

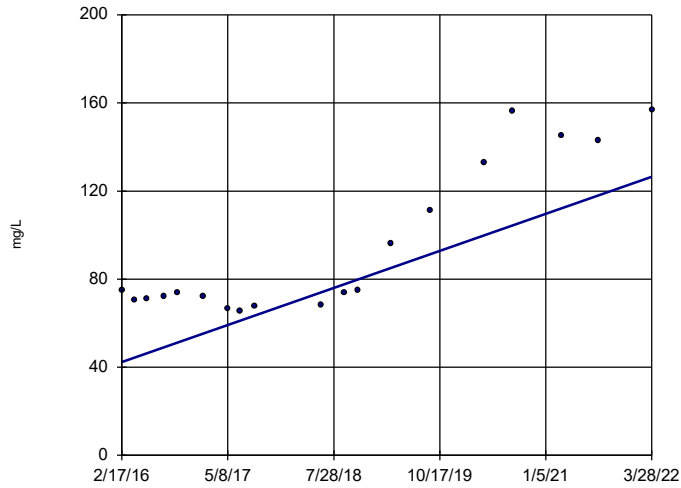
GC-AP-MW-18



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

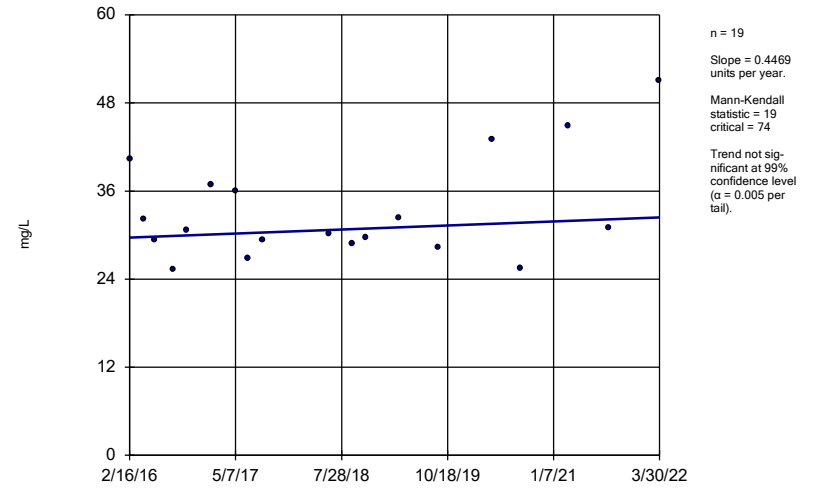
GC-AP-MW-2



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

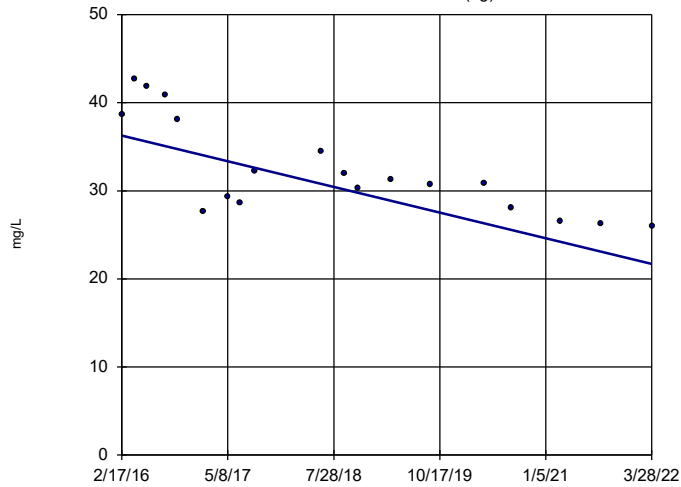
GC-AP-MW-21



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

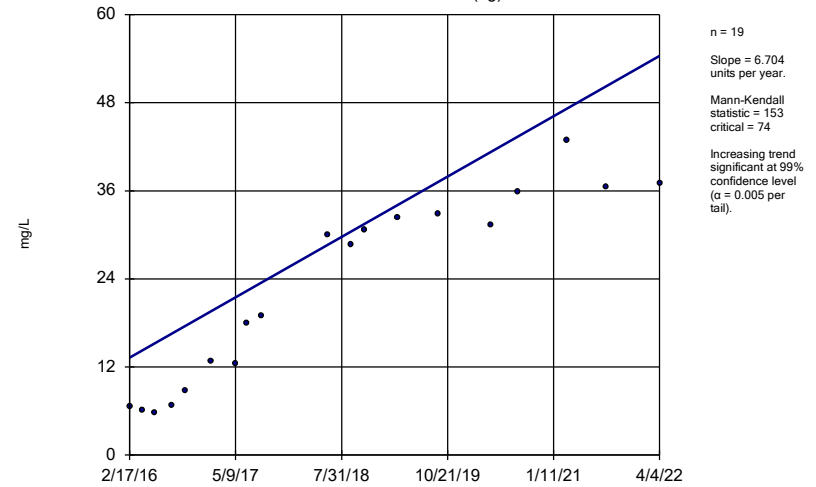
GC-AP-MW-23 (bg)



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

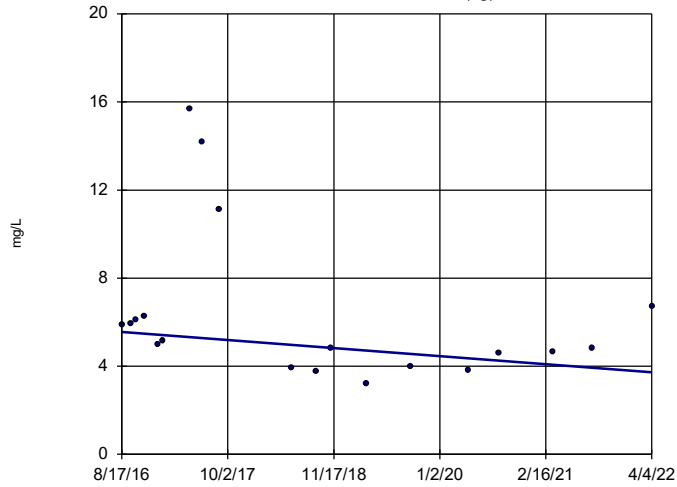
GC-AP-MW-24 (bg)



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-26 (bg)

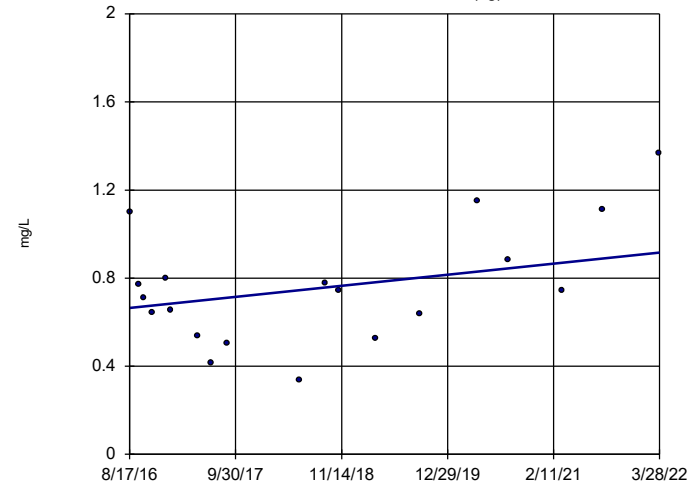


n = 19
 Slope = -0.3246
 units per year.
 Mann-Kendall
 statistic = -39
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-27 (bg)

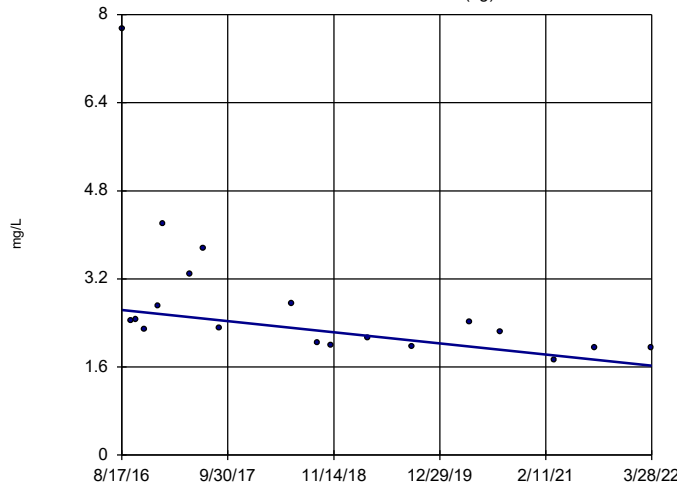


n = 19
 Slope = 0.04491
 units per year.
 Mann-Kendall
 statistic = 25
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-28 (bg)

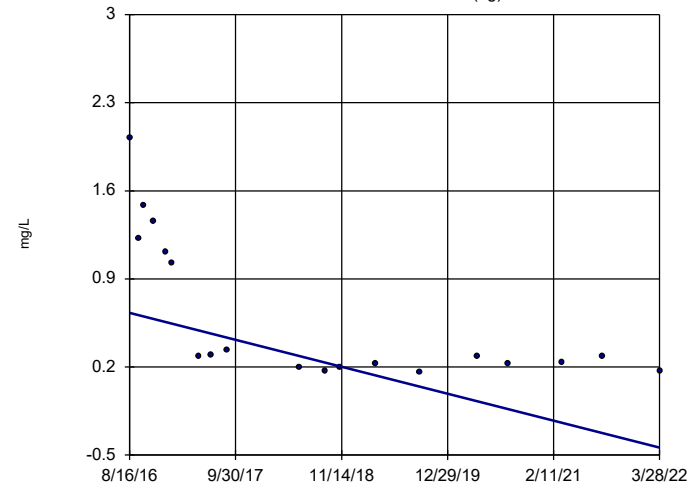


n = 19
 Slope = -0.1803
 units per year.
 Mann-Kendall
 statistic = -96
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-29 (bg)

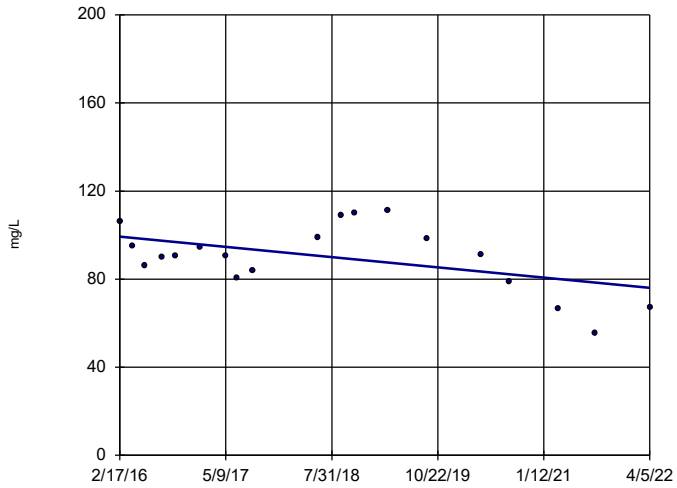


n = 19
 Slope = -0.1907
 units per year.
 Mann-Kendall
 statistic = -103
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

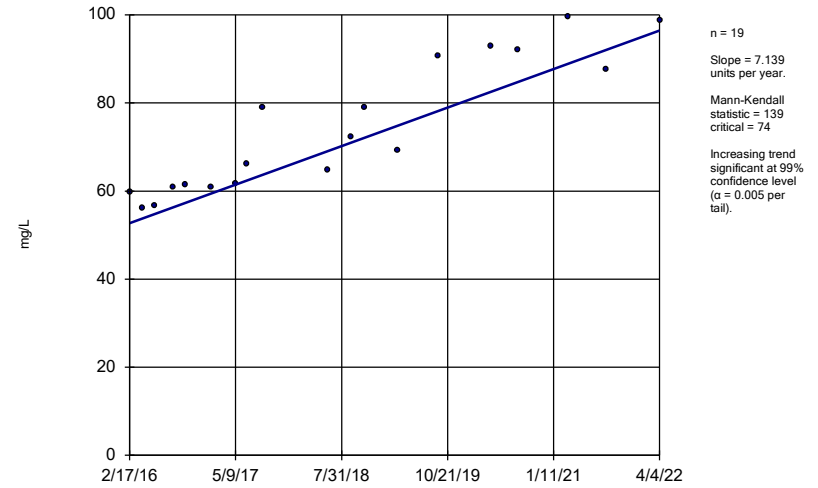
GC-AP-MW-3



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

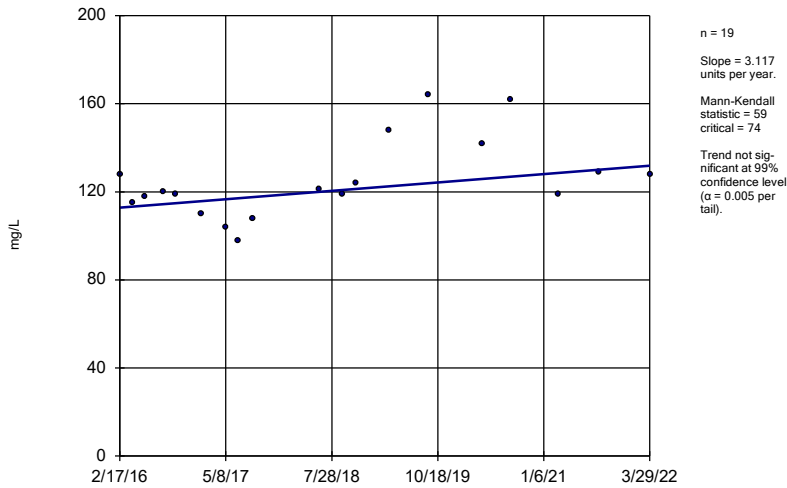
GC-AP-MW-5



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

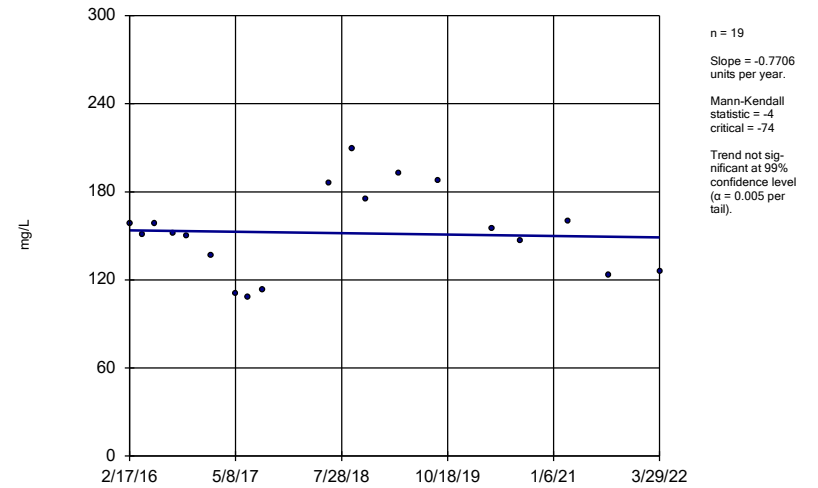
GC-AP-MW-6



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

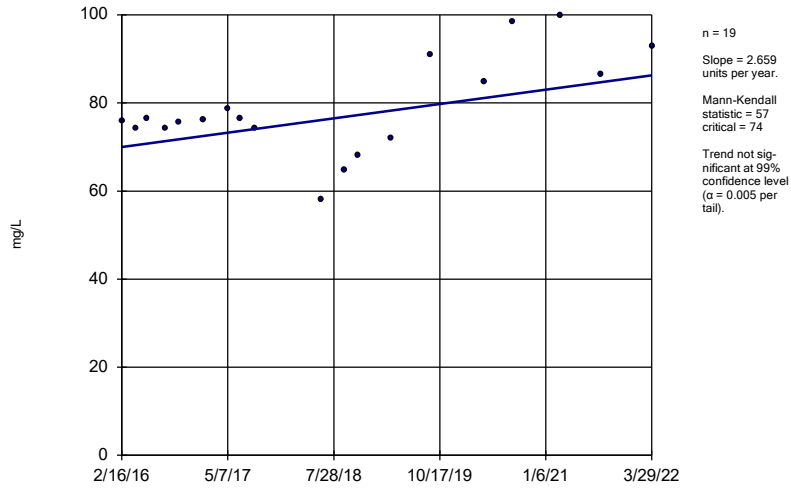
GC-AP-MW-7



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

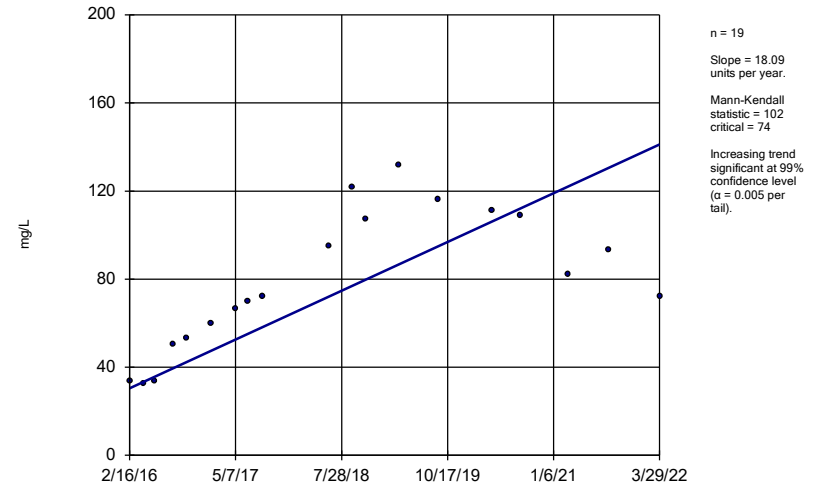
GC-AP-MW-8



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

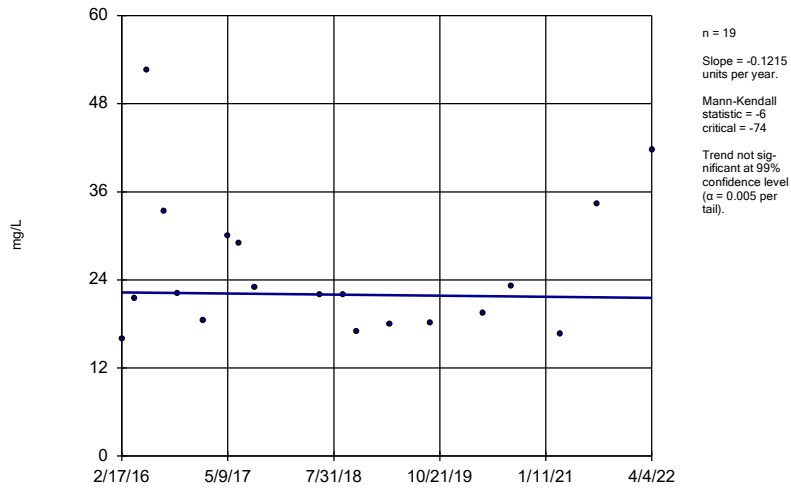
GC-AP-MW-9



Constituent: Calcium Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

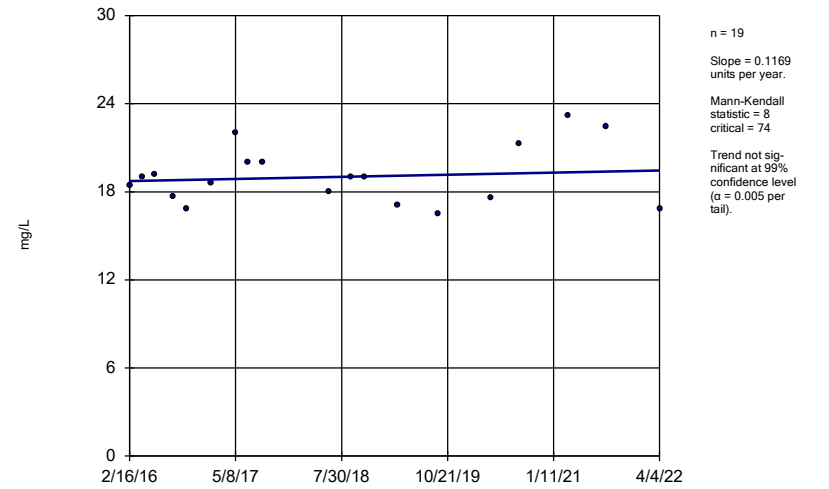
GC-AP-MW-1



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

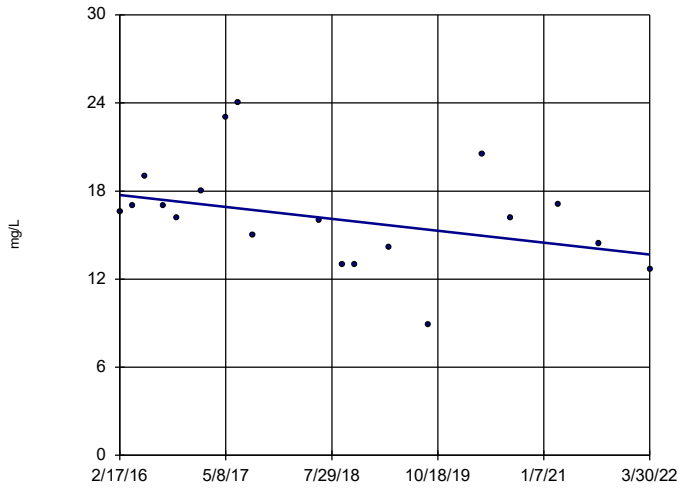
GC-AP-MW-10



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

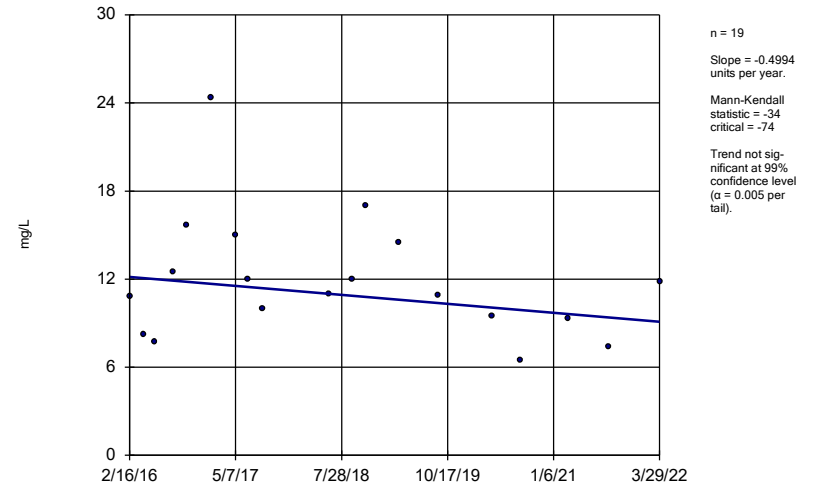
GC-AP-MW-11



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

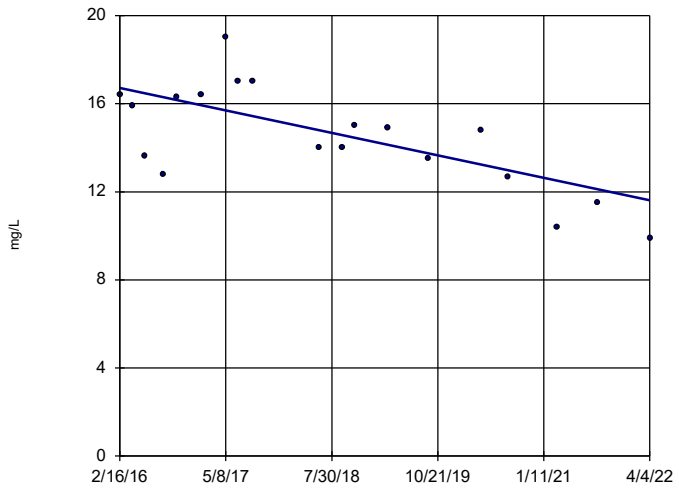
GC-AP-MW-12



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

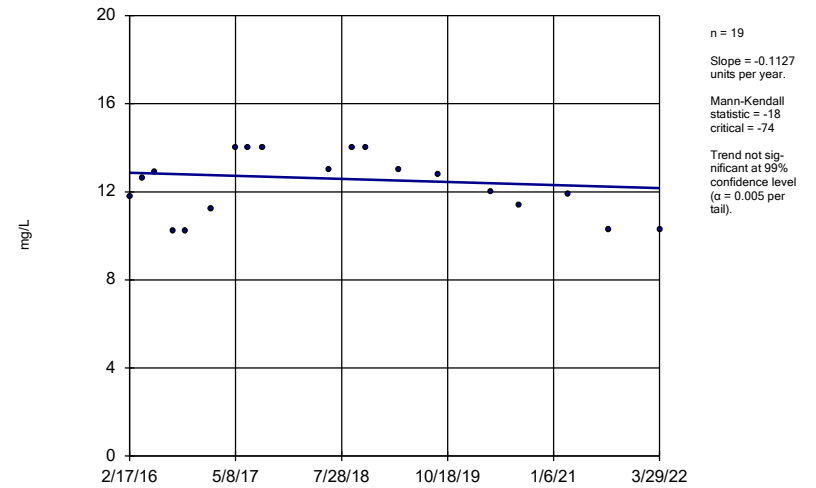
GC-AP-MW-14



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

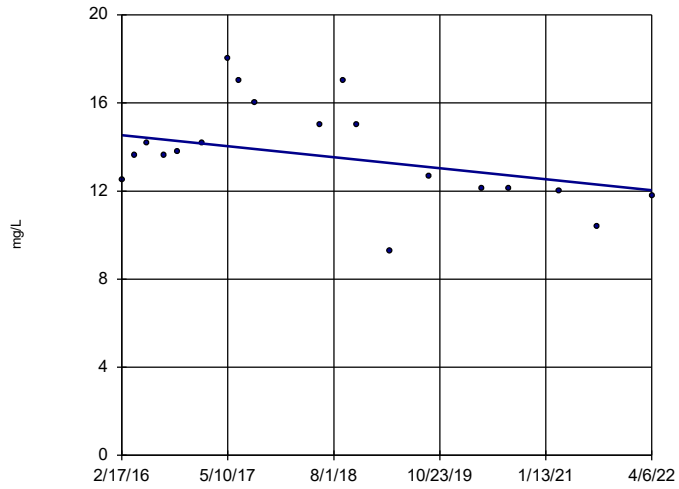
GC-AP-MW-15



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-16

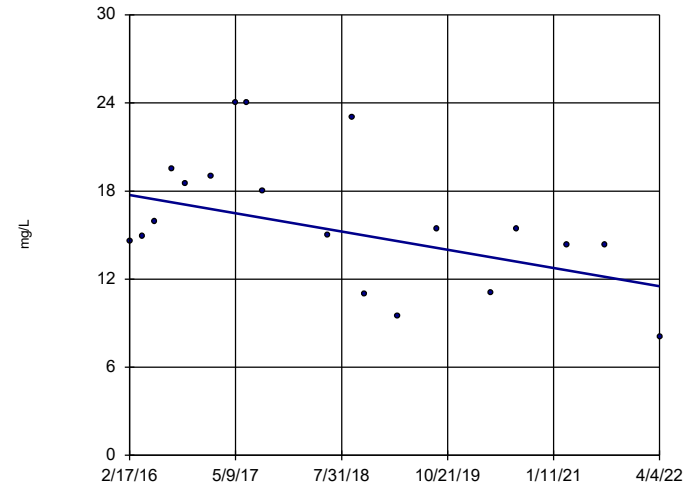


n = 19
 Slope = -0.4083
 units per year.
 Mann-Kendall
 statistic = -52
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-17

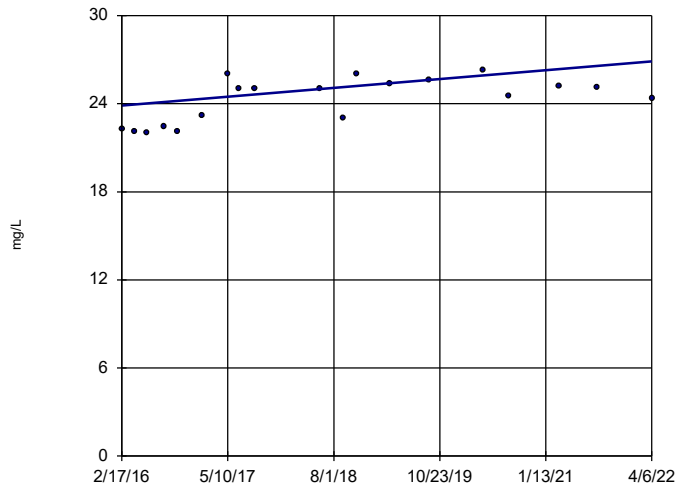


n = 19
 Slope = -1.015
 units per year.
 Mann-Kendall
 statistic = -54
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-18

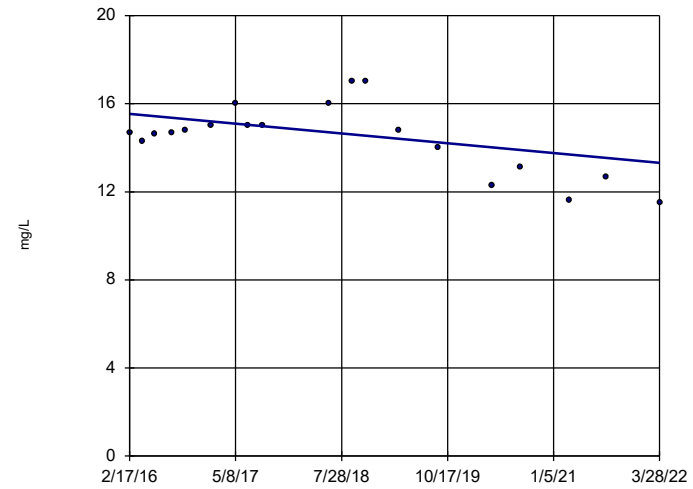


n = 19
 Slope = 0.4917
 units per year.
 Mann-Kendall
 statistic = 72
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-2

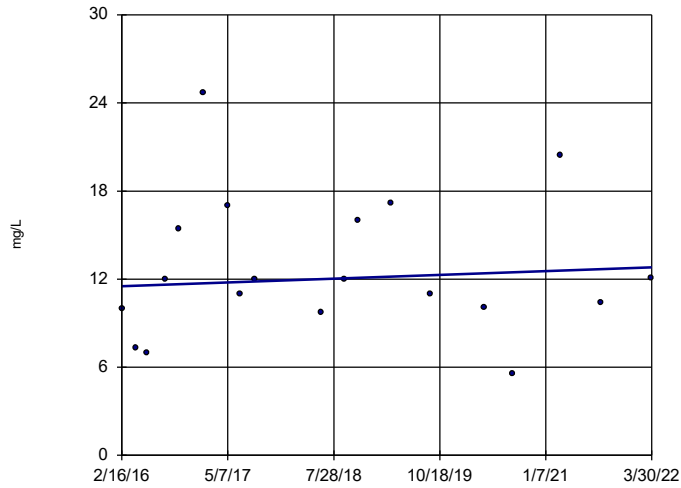


n = 19
 Slope = -0.3644
 units per year.
 Mann-Kendall
 statistic = -38
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

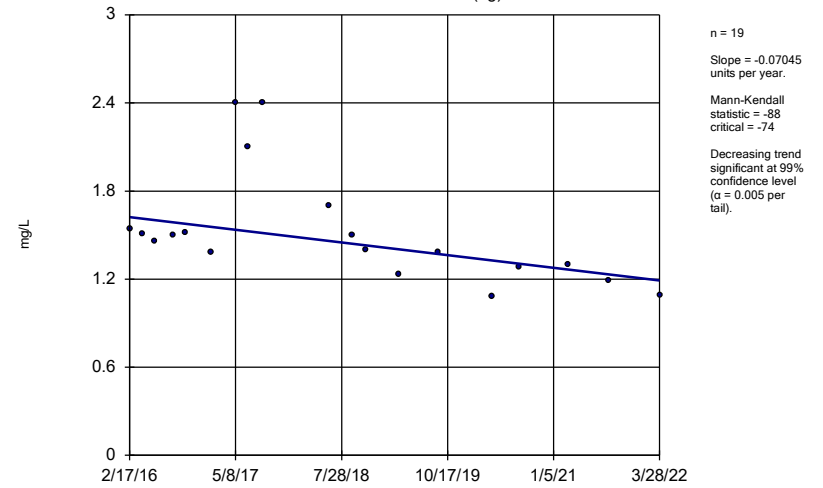
GC-AP-MW-21



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

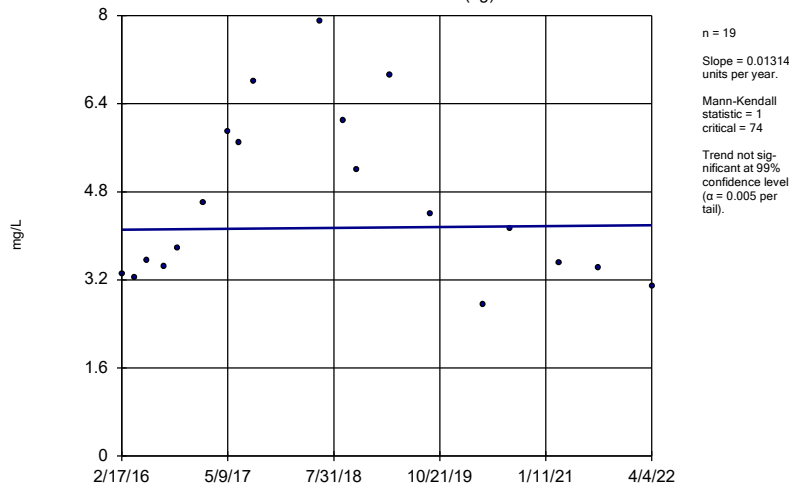
GC-AP-MW-23 (bg)



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

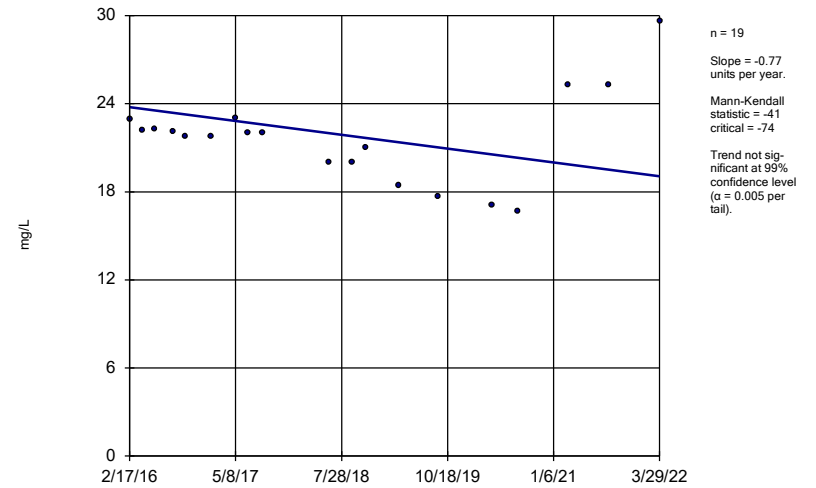
GC-AP-MW-24 (bg)



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

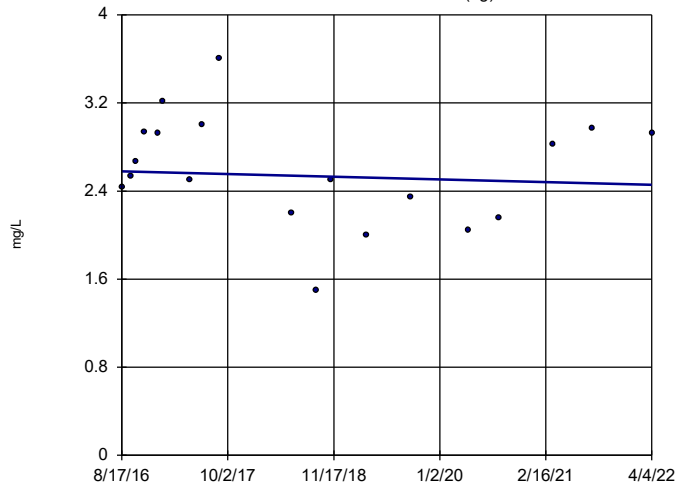
GC-AP-MW-25



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-26 (bg)

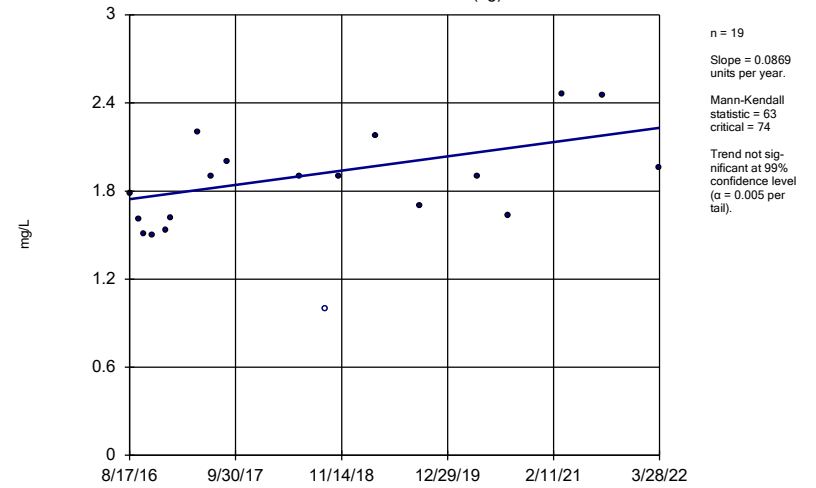


Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)

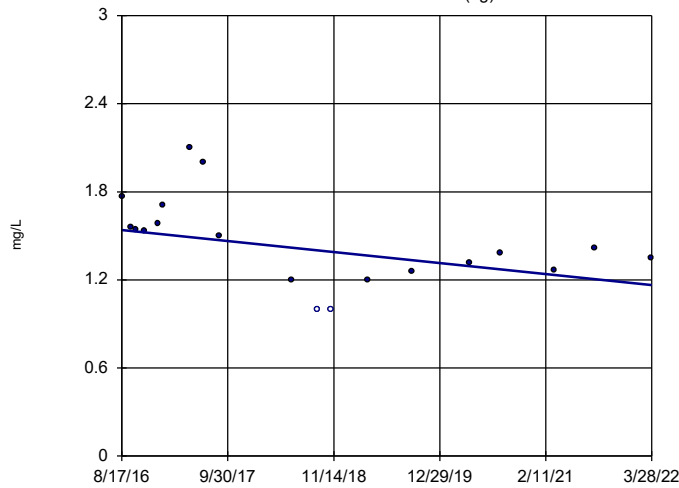


Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)

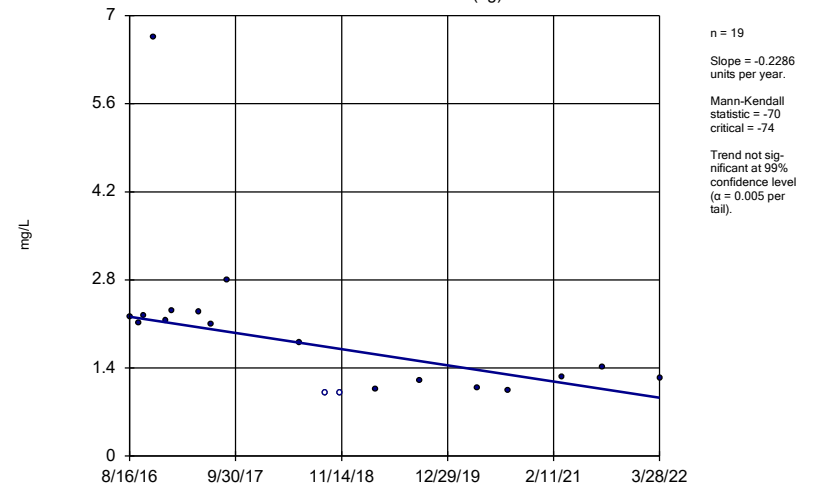


Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

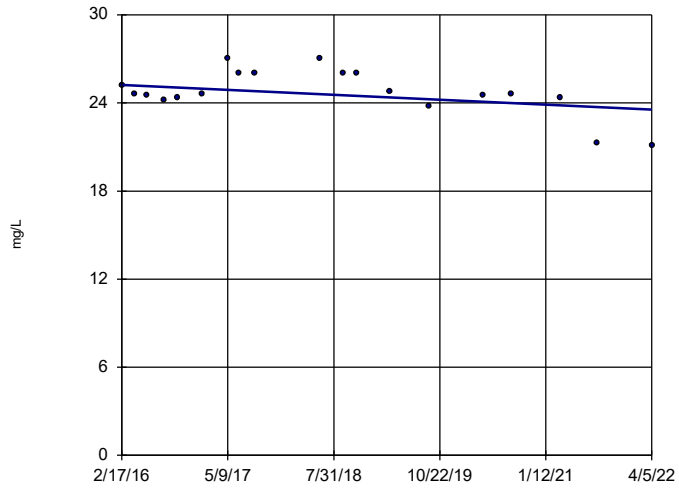
GC-AP-MW-29 (bg)



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

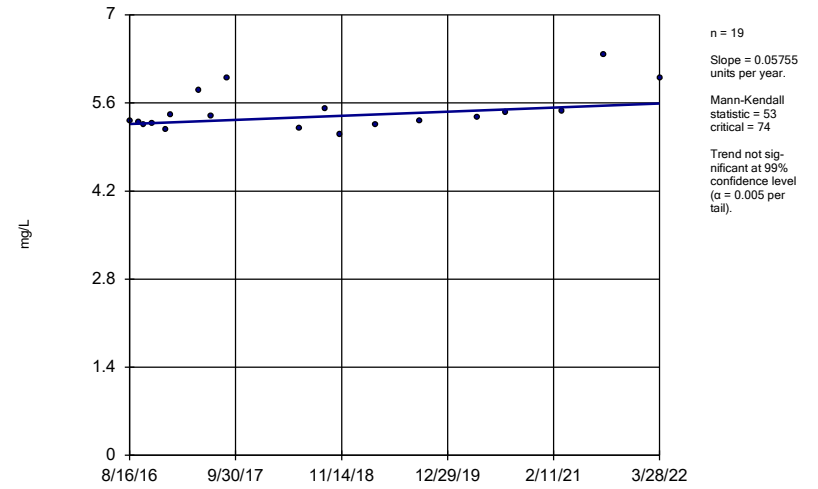
GC-AP-MW-3



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

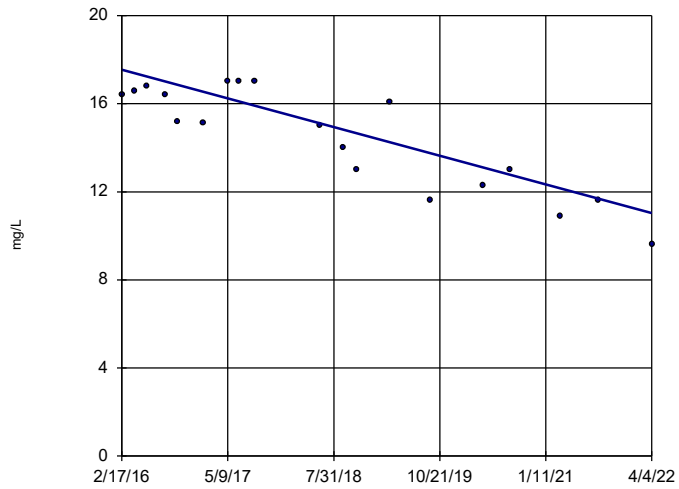
GC-AP-MW-31



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

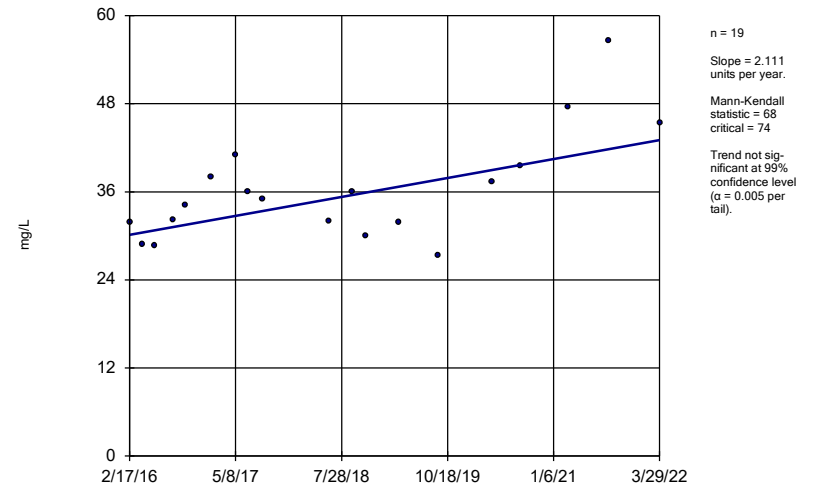
GC-AP-MW-5



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

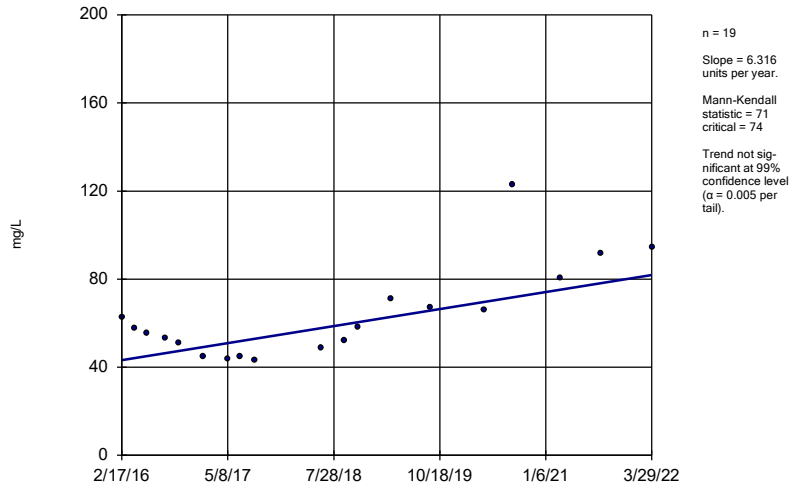
GC-AP-MW-6



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

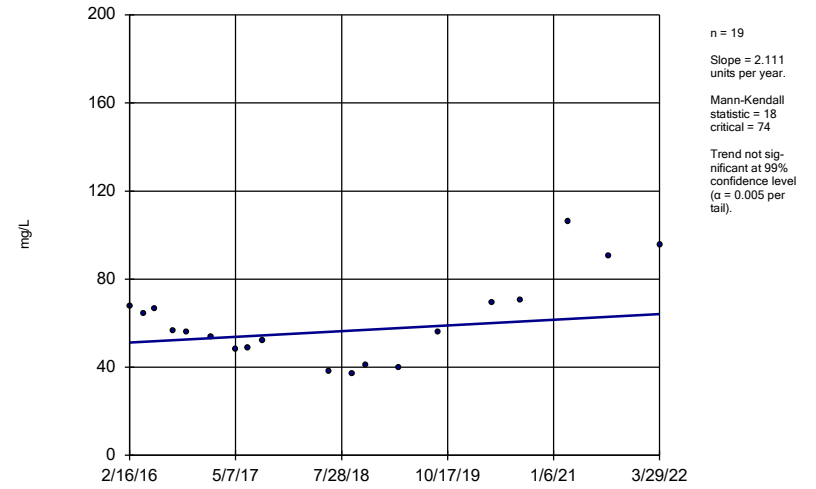
GC-AP-MW-7



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

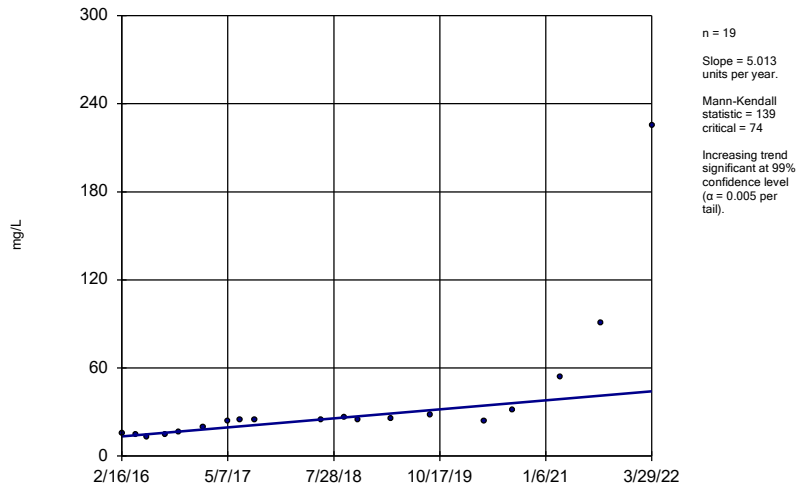
GC-AP-MW-8



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

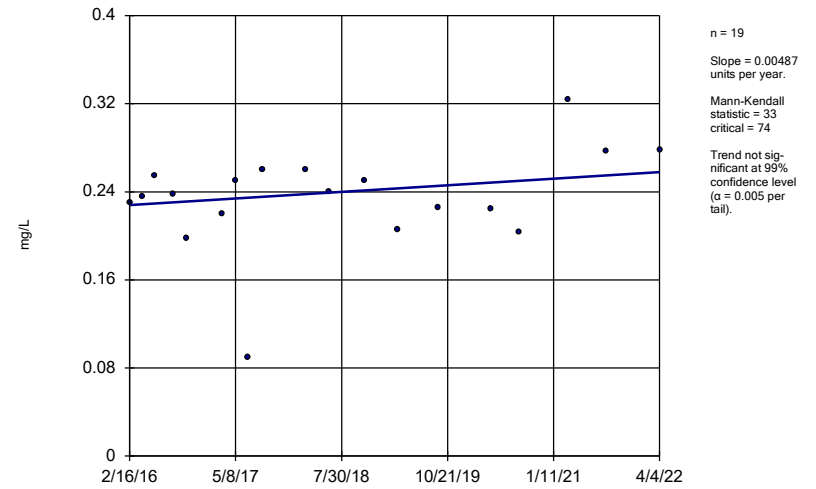
GC-AP-MW-9



Constituent: Chloride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

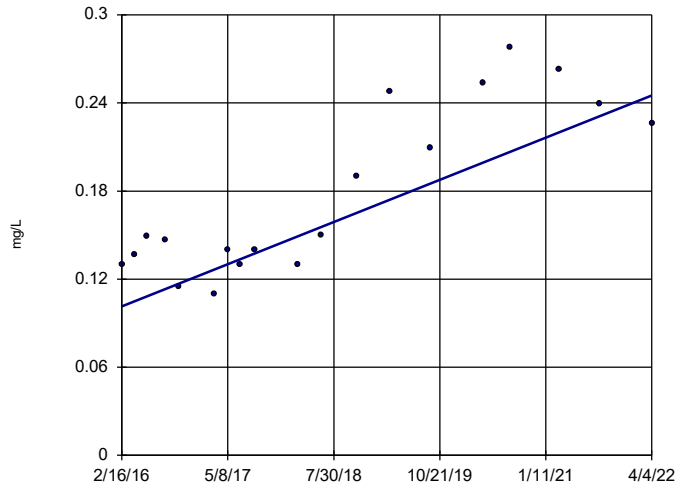
GC-AP-MW-10



Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

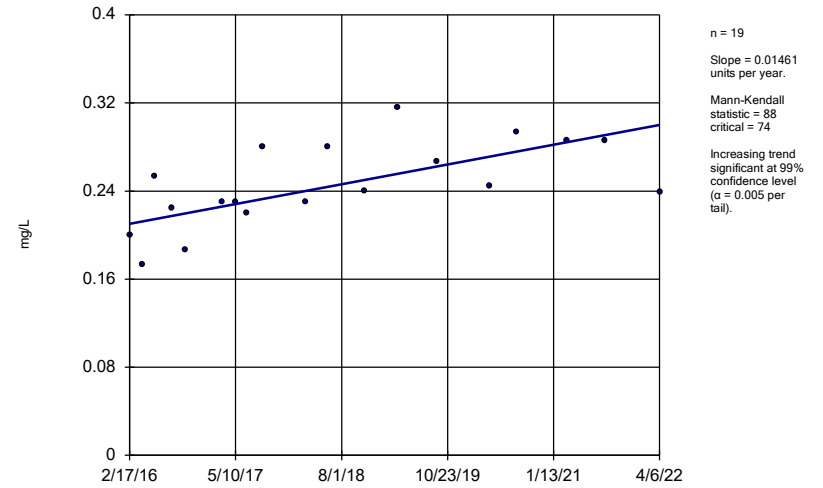
GC-AP-MW-14



Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

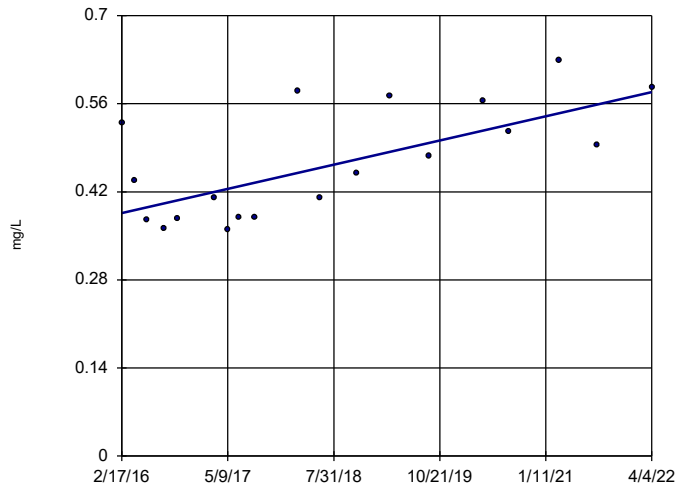
GC-AP-MW-16



Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-17

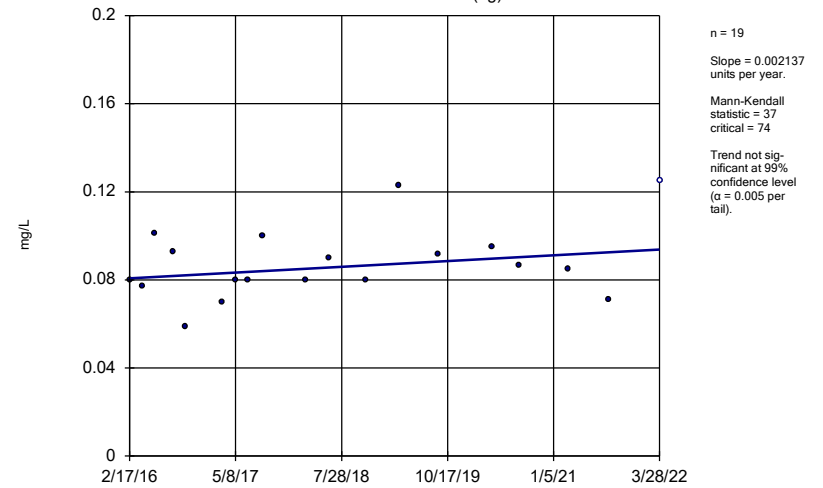


Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Sen's Slope Estimator

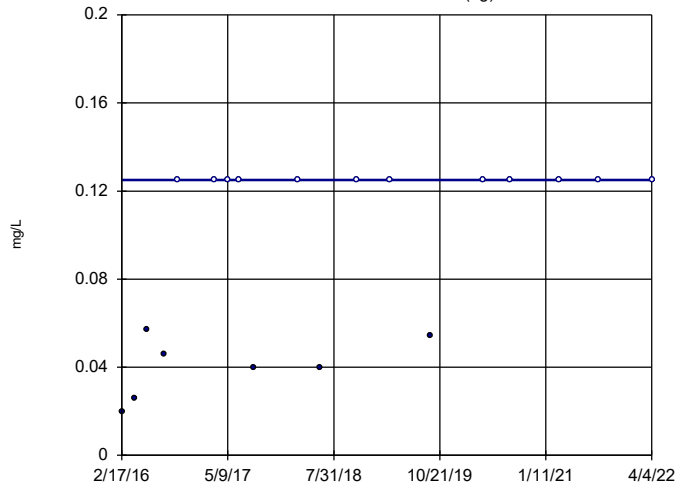
GC-AP-MW-23 (bg)



Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

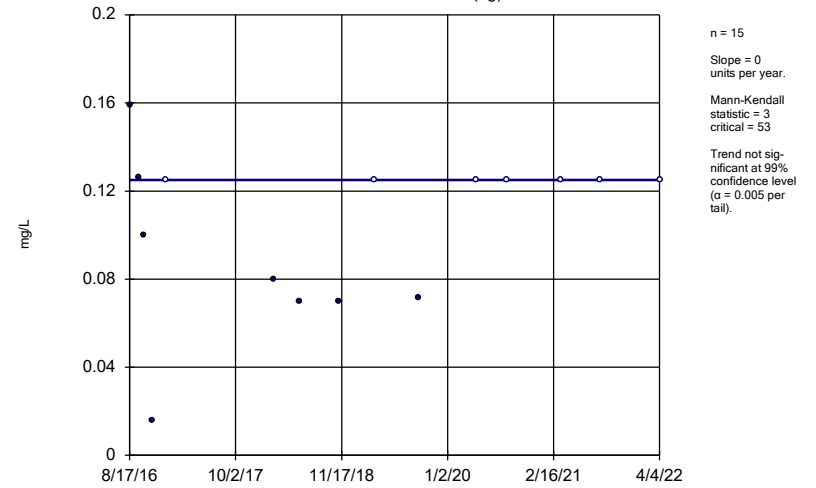
GC-AP-MW-24 (bg)



Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

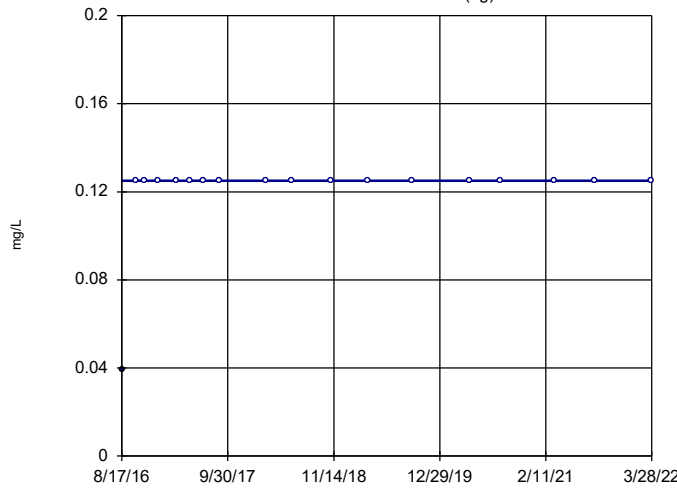
GC-AP-MW-26 (bg)



Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

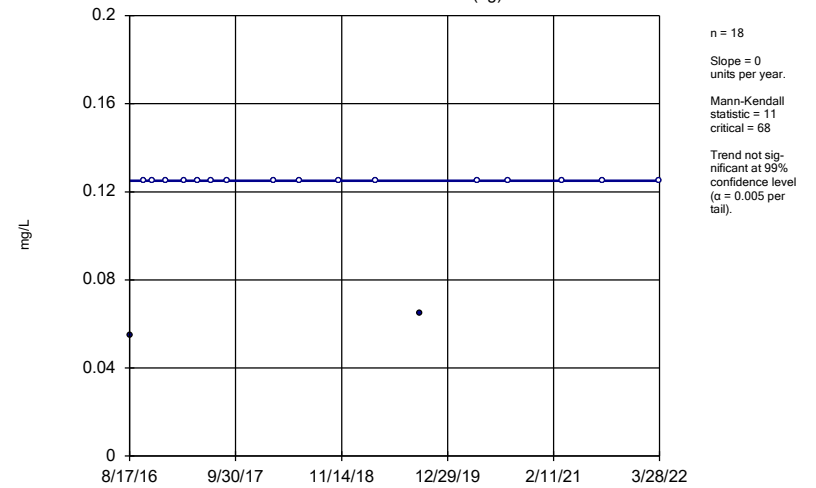
GC-AP-MW-27 (bg)



Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

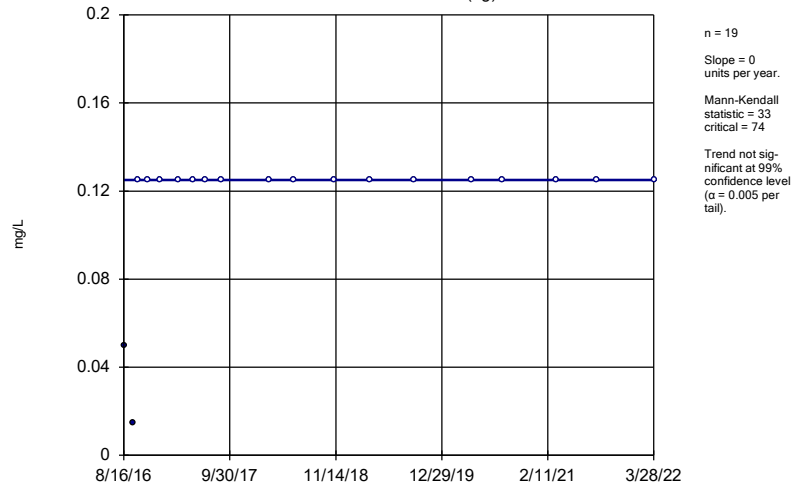
Sen's Slope Estimator

GC-AP-MW-28 (bg)



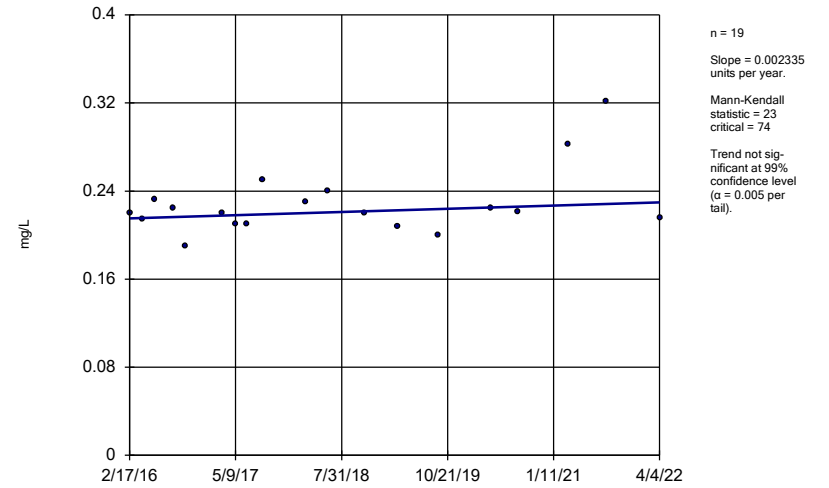
Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-29 (bg)



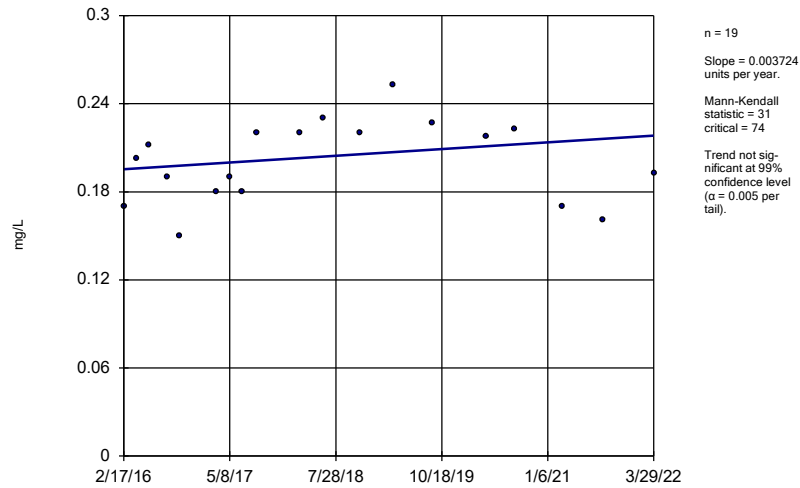
Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-5



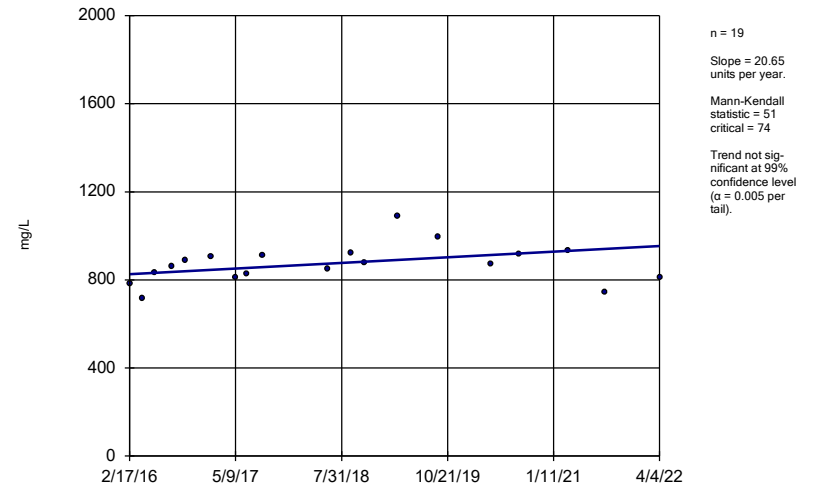
Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-6



Constituent: Fluoride Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

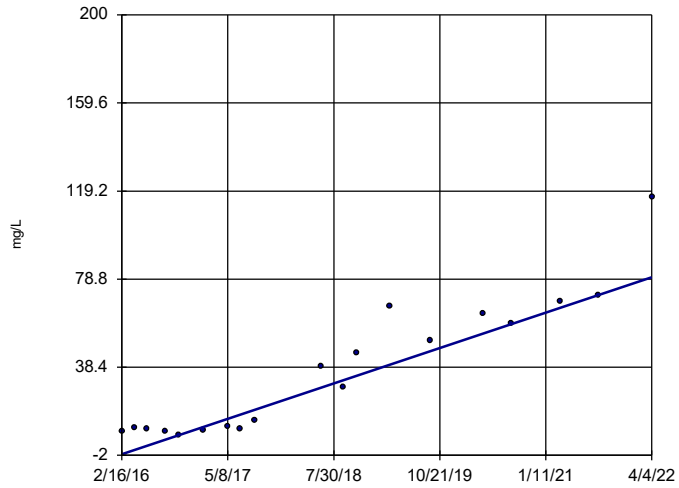
Sen's Slope Estimator GC-AP-MW-1



Constituent: Sulfate Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

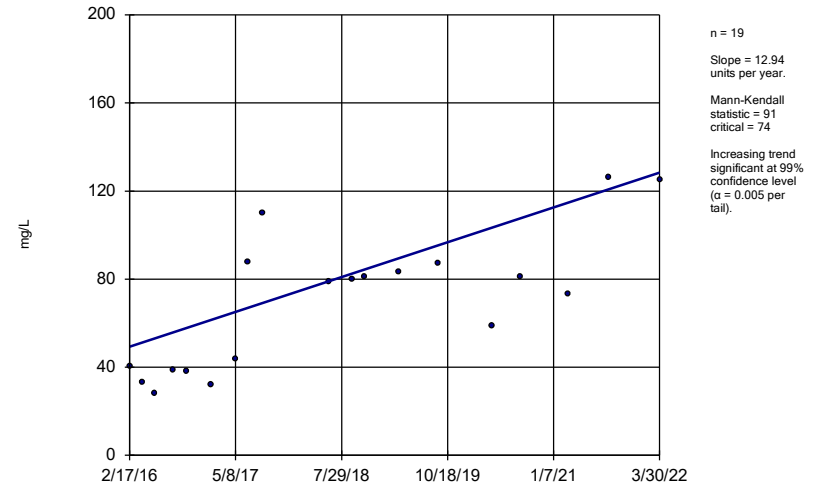
GC-AP-MW-10



Constituent: Sulfate Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

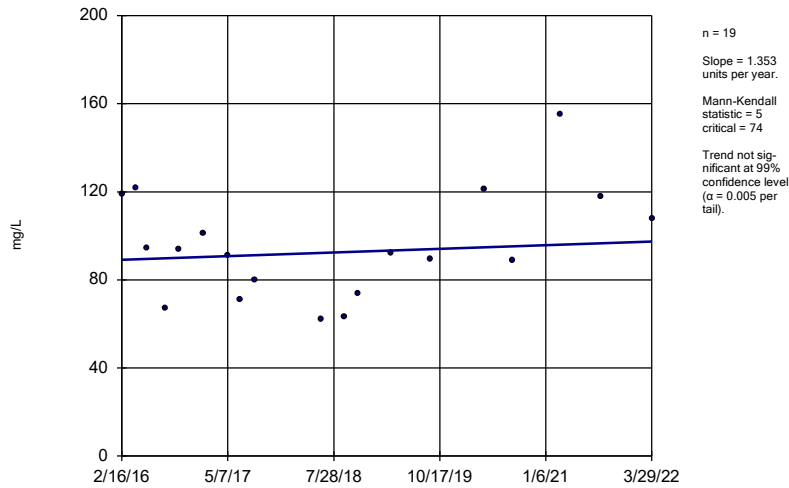
GC-AP-MW-11



Constituent: Sulfate Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

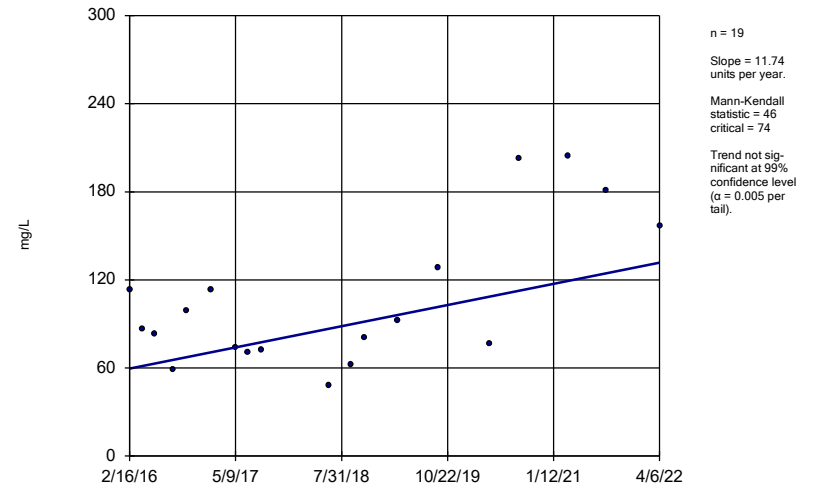
GC-AP-MW-12



Constituent: Sulfate Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

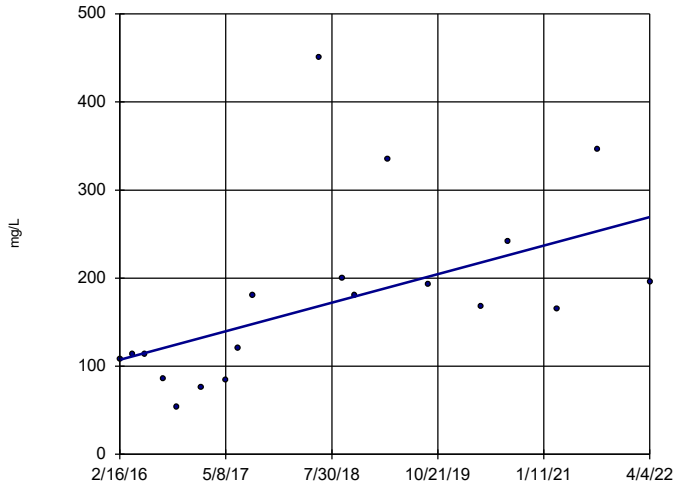
GC-AP-MW-13



Constituent: Sulfate Analysis Run 6/1/2022 1:09 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

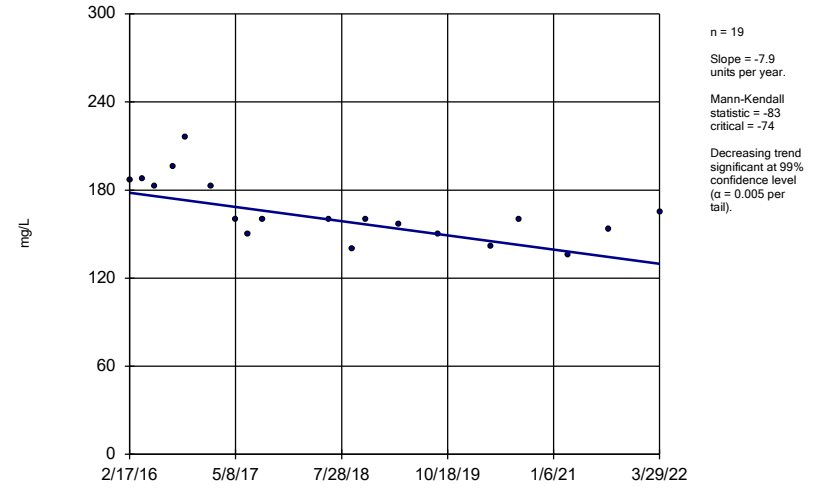
GC-AP-MW-14



Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

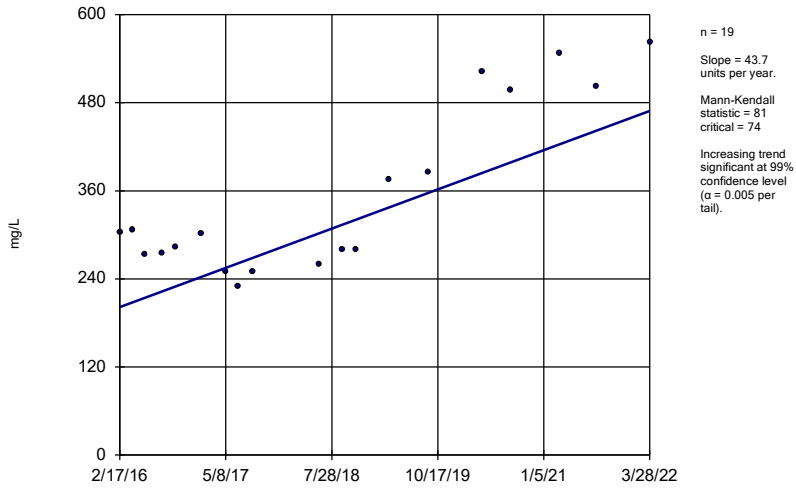
GC-AP-MW-15



Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

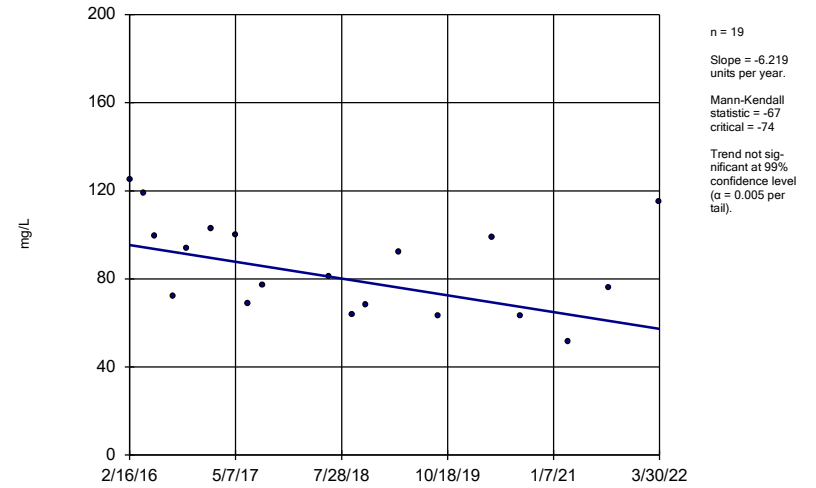
GC-AP-MW-2



Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

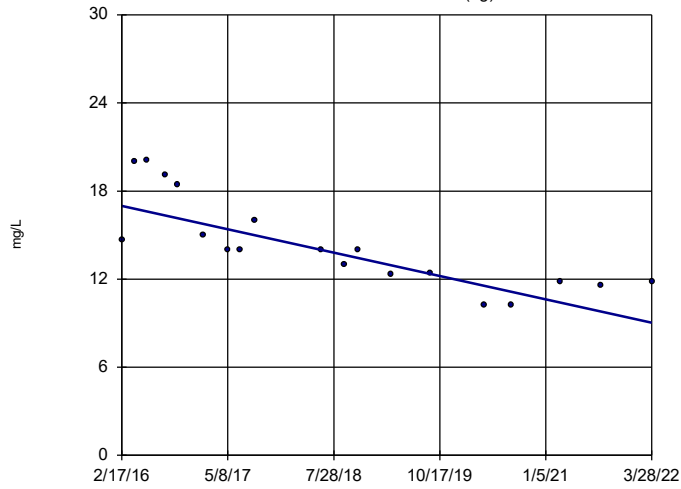
Sen's Slope Estimator

GC-AP-MW-21



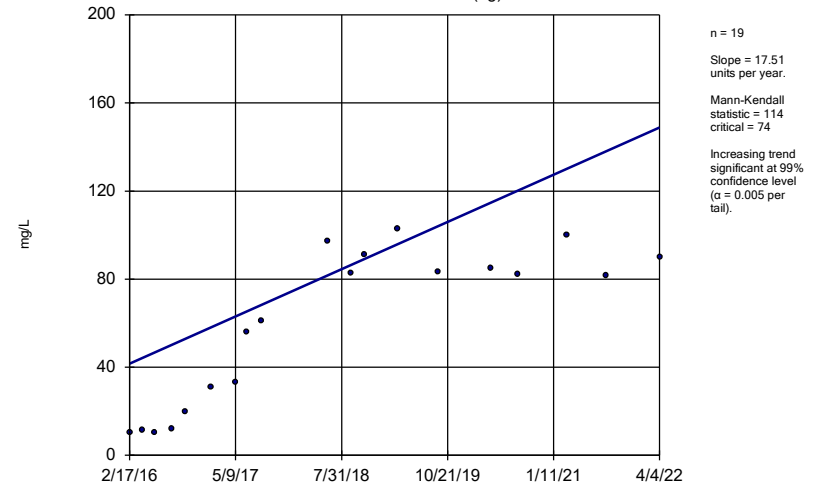
Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-23 (bg)



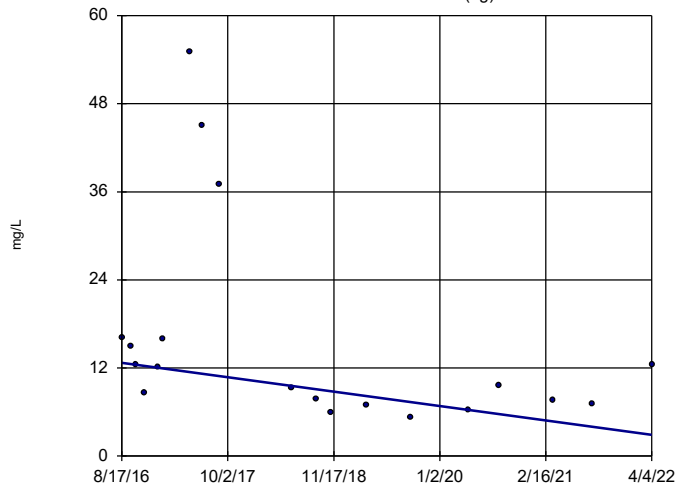
Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-24 (bg)



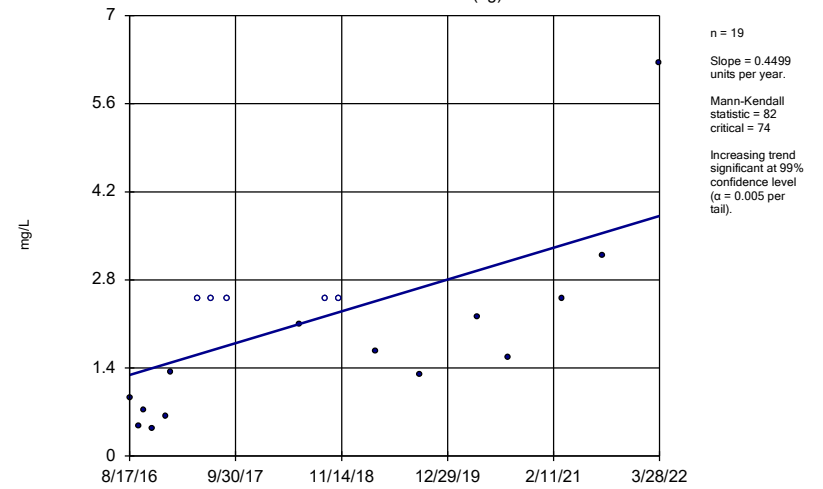
Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-26 (bg)



Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

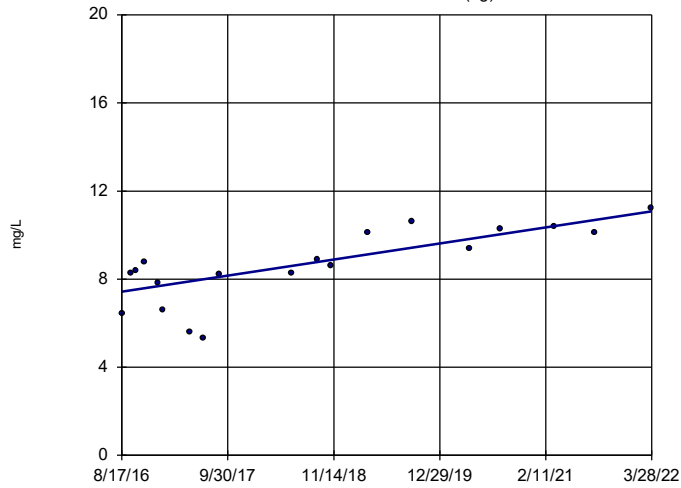
Sen's Slope Estimator GC-AP-MW-27 (bg)



Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

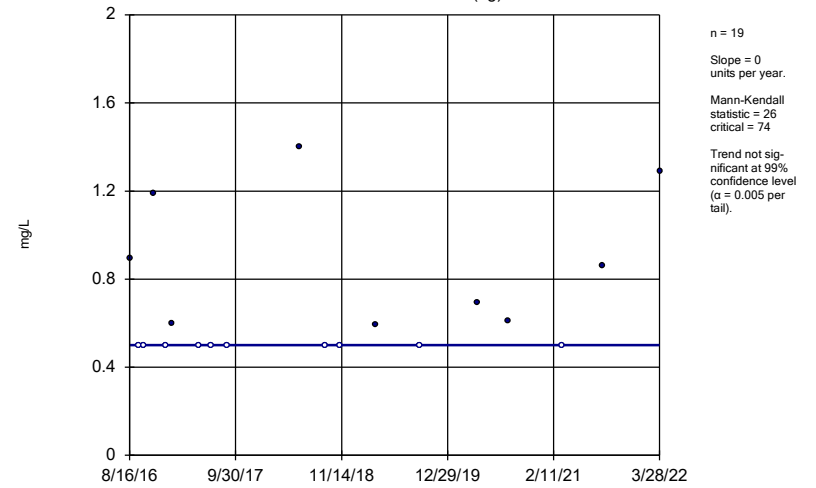
GC-AP-MW-28 (bg)



Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

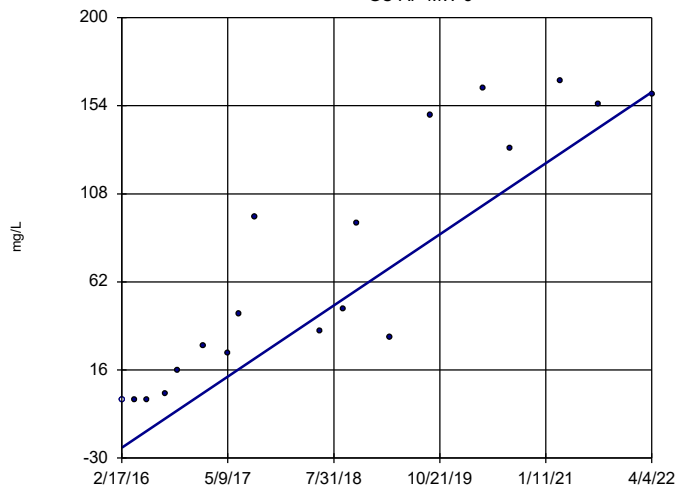
GC-AP-MW-29 (bg)



Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

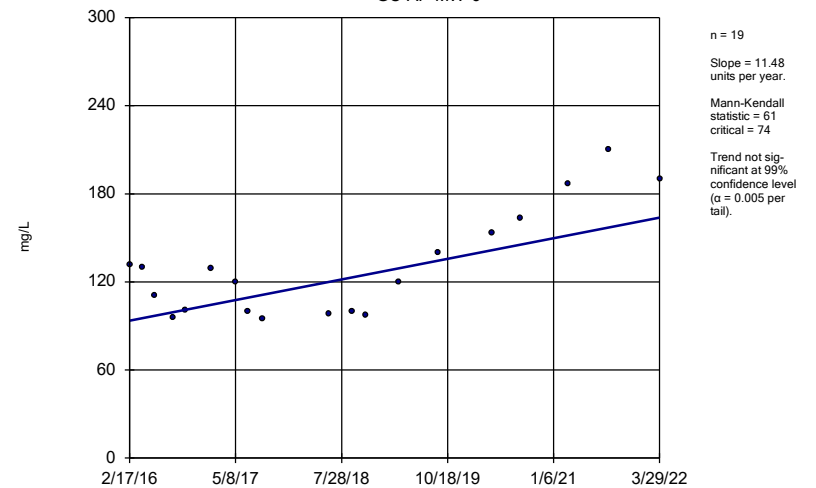
GC-AP-MW-5



Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

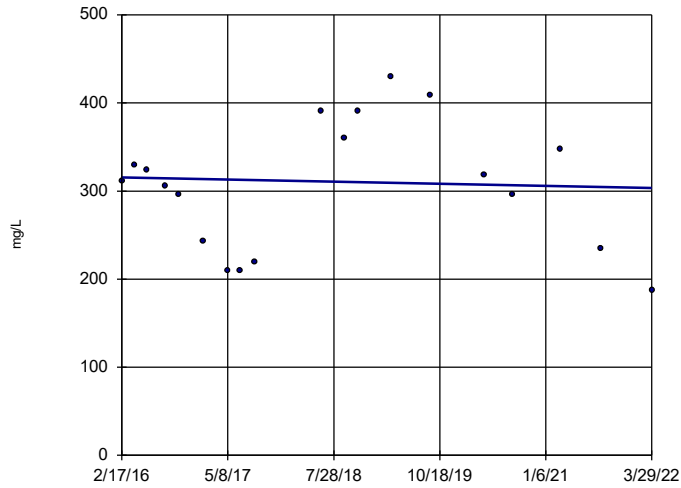
GC-AP-MW-6



Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-7

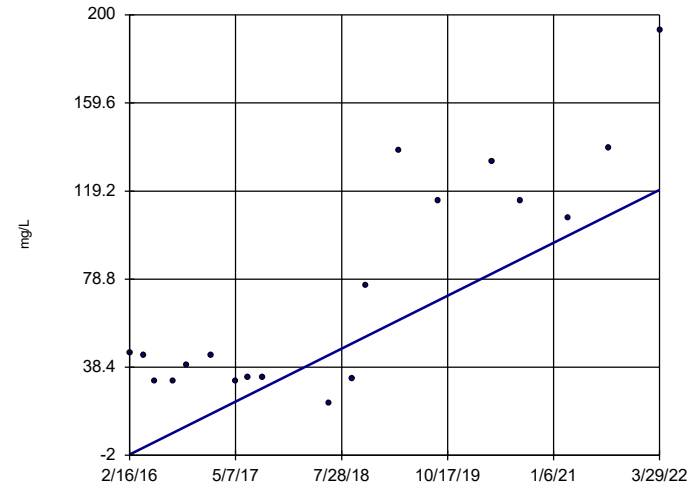


n = 19
 Slope = -1.965
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-9

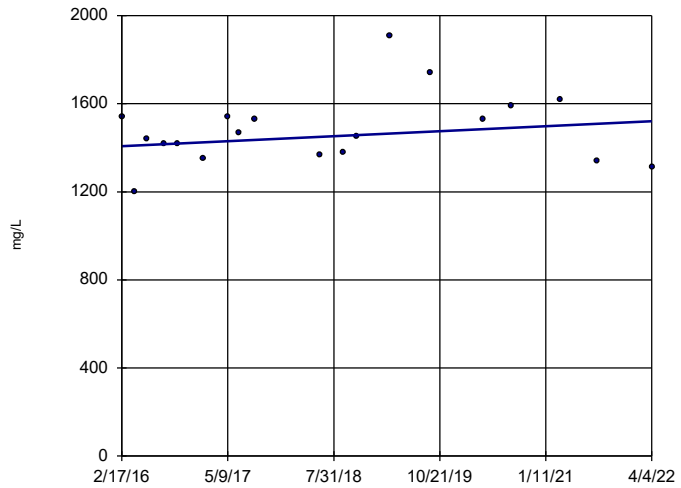


n = 19
 Slope = 19.82
 units per year.
 Mann-Kendall
 statistic = 80
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 6/1/2022 1:10 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-1

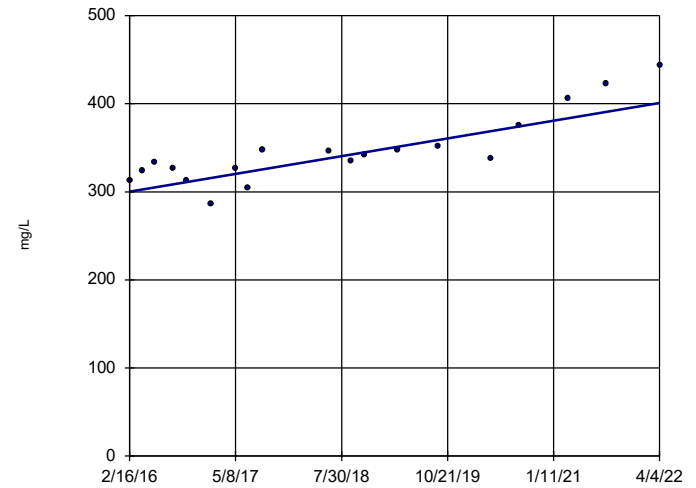


n = 19
 Slope = 18.43
 units per year.
 Mann-Kendall
 statistic = 20
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-10

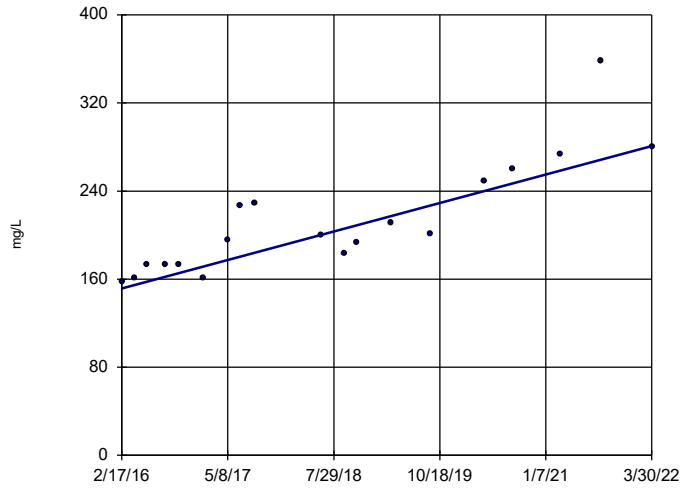


n = 19
 Slope = 16.36
 units per year.
 Mann-Kendall
 statistic = 114
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-11

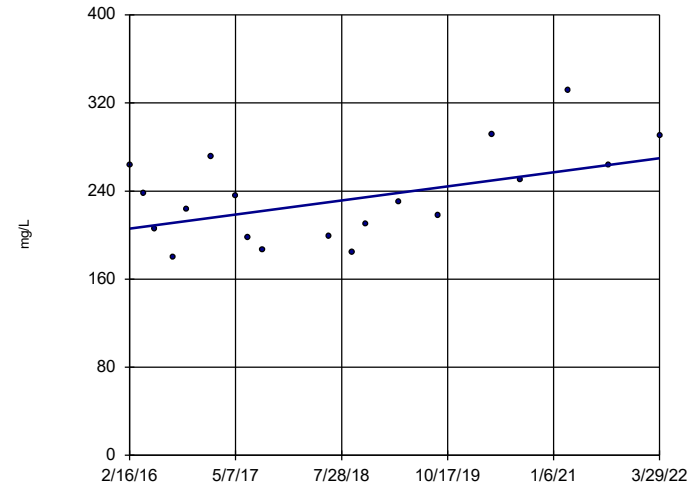


n = 19
 Slope = 21.14
 units per year.
 Mann-Kendall
 statistic = 129
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-12

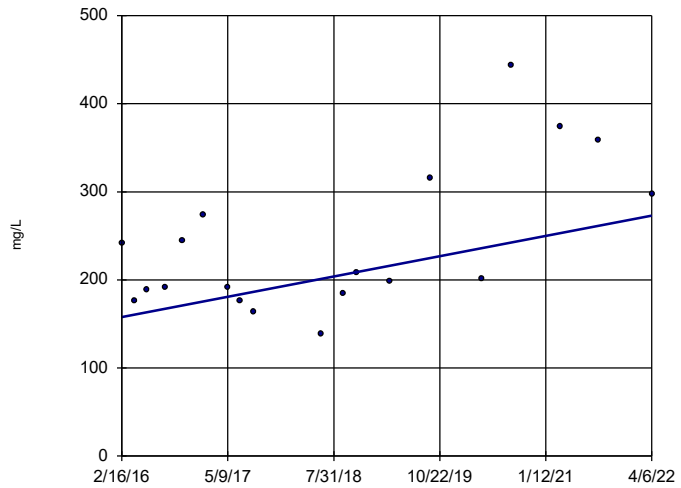


n = 19
 Slope = 10.43
 units per year.
 Mann-Kendall
 statistic = 45
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-13

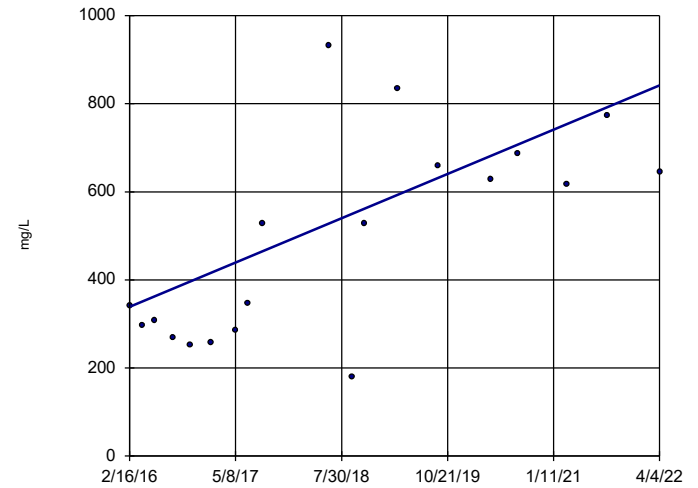


n = 19
 Slope = 18.79
 units per year.
 Mann-Kendall
 statistic = 60
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-14

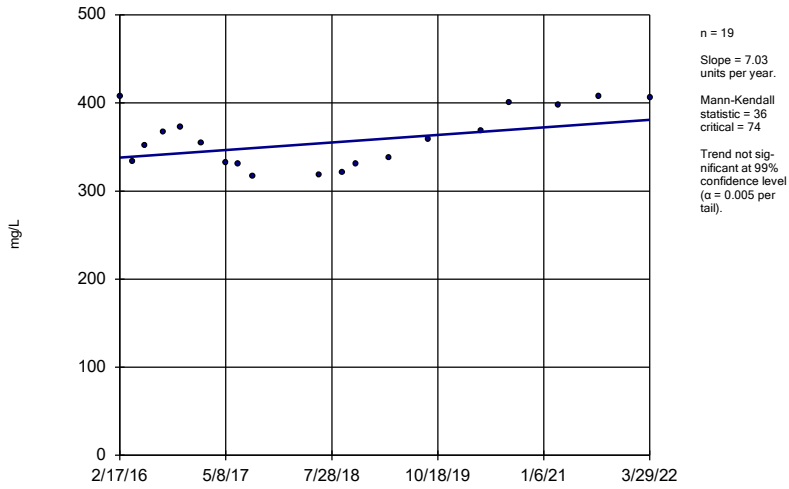


n = 19
 Slope = 81.94
 units per year.
 Mann-Kendall
 statistic = 76
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
 Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

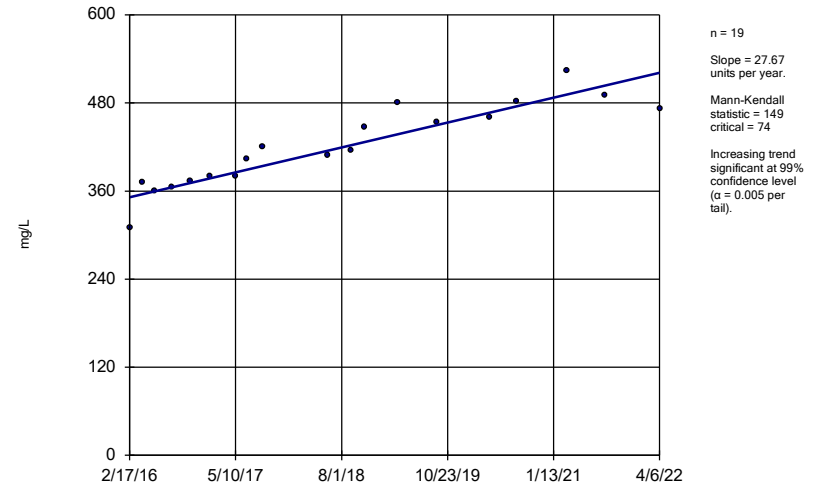
GC-AP-MW-15



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

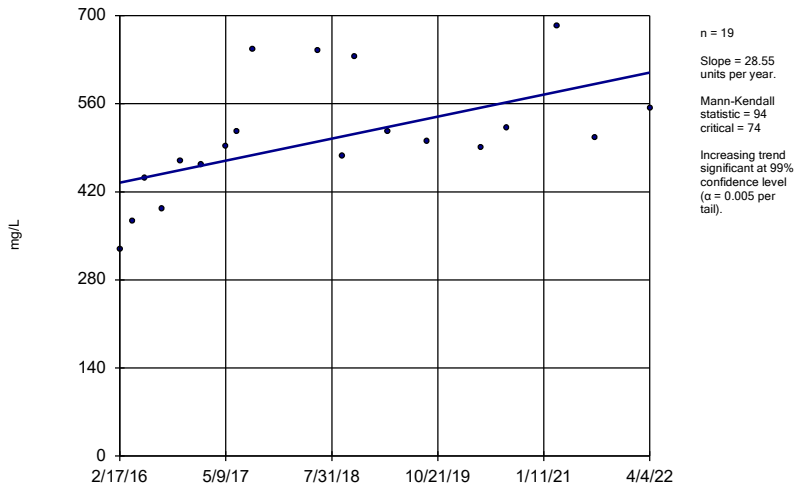
GC-AP-MW-16



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

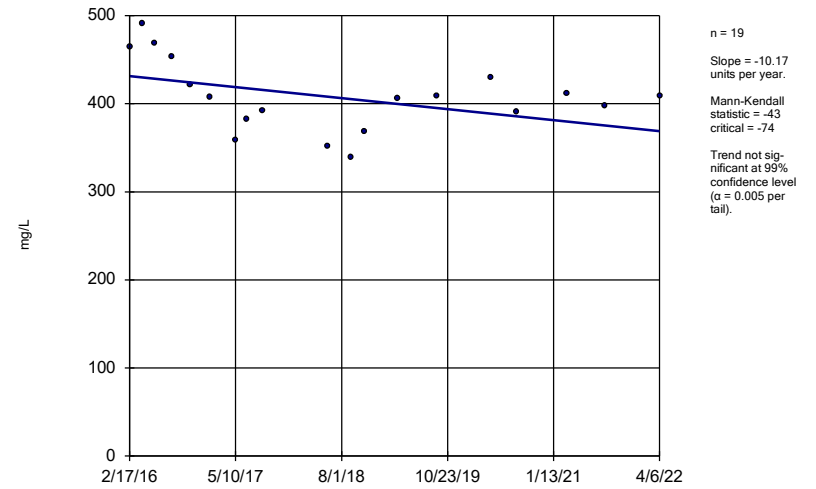
GC-AP-MW-17



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

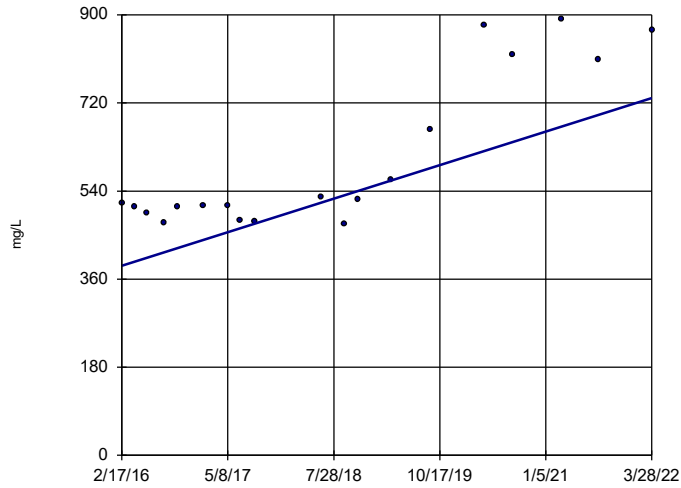
GC-AP-MW-18



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

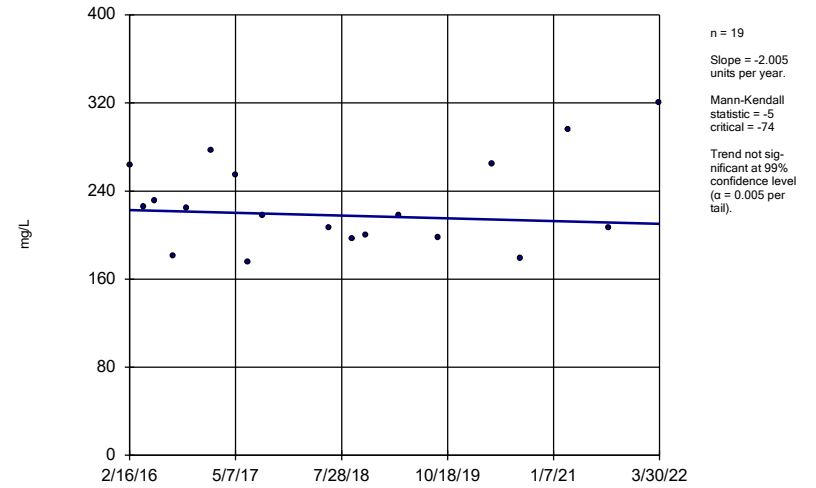
GC-AP-MW-2



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

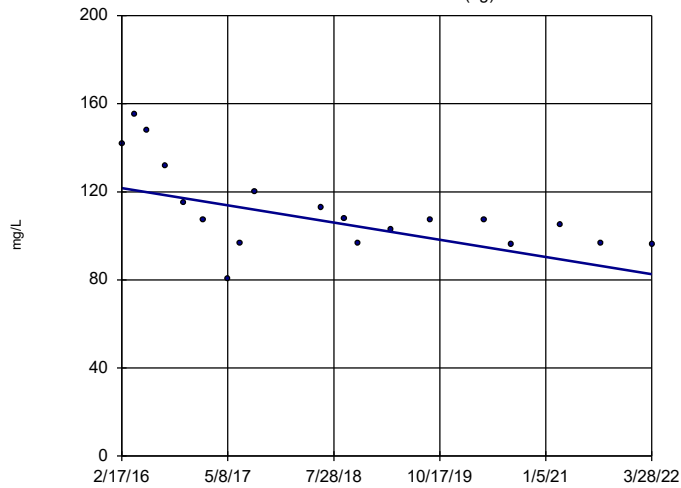
GC-AP-MW-21



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

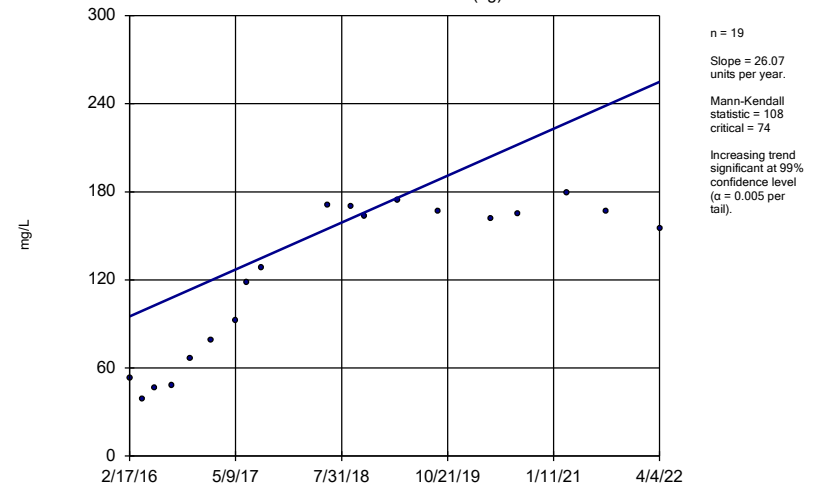
GC-AP-MW-23 (bg)



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

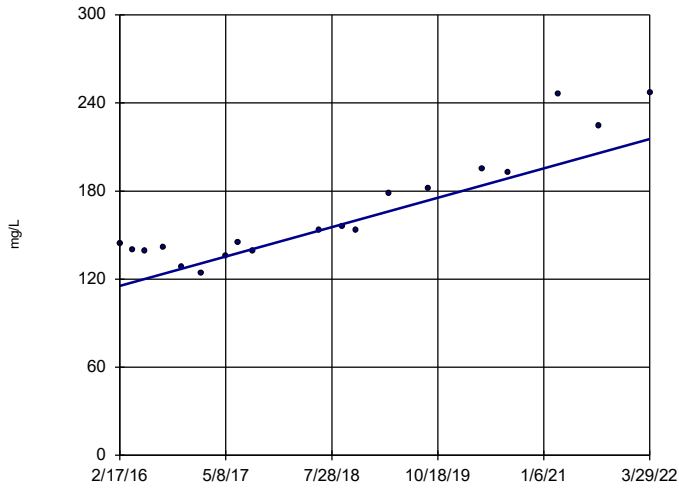
GC-AP-MW-24 (bg)



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

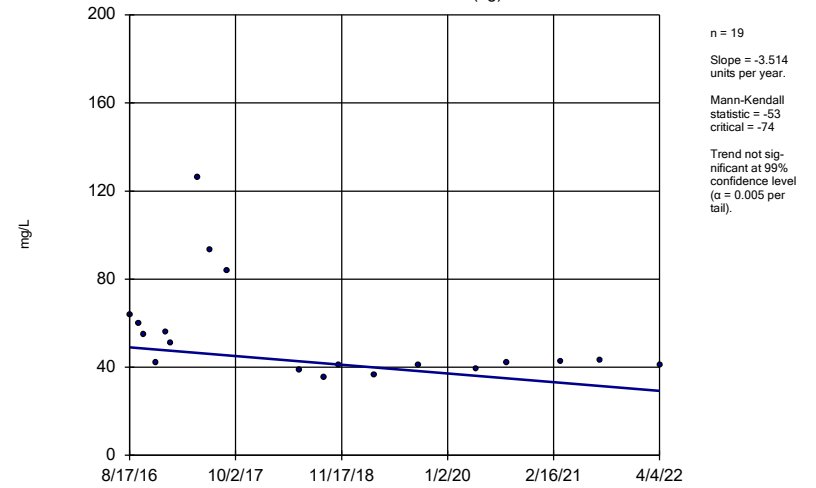
GC-AP-MW-25



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

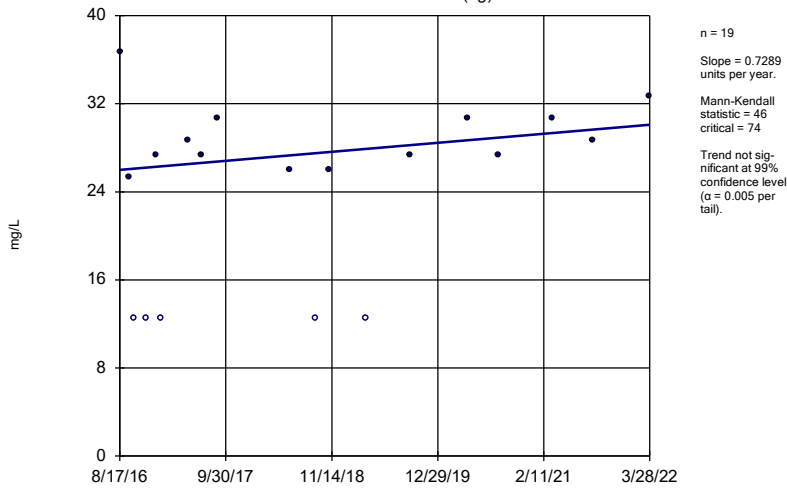
GC-AP-MW-26 (bg)



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

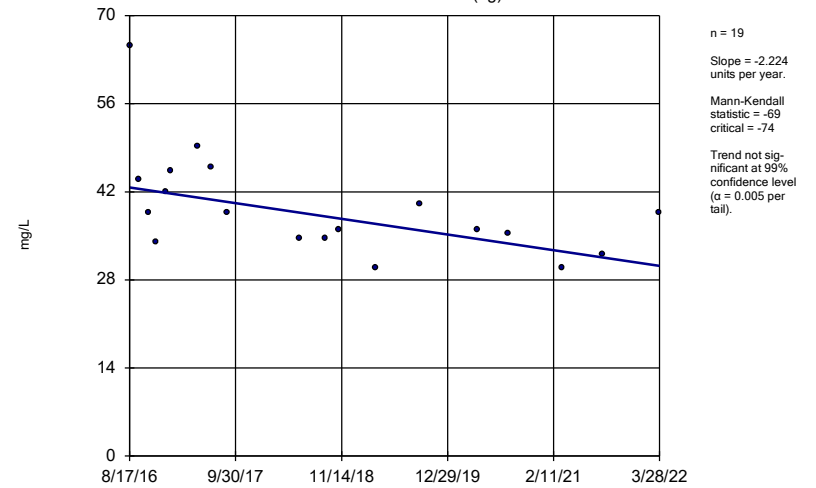
GC-AP-MW-27 (bg)



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

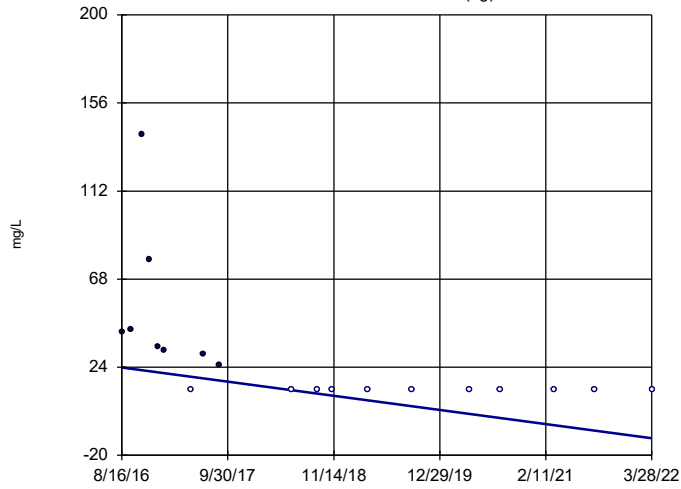
Sen's Slope Estimator

GC-AP-MW-28 (bg)



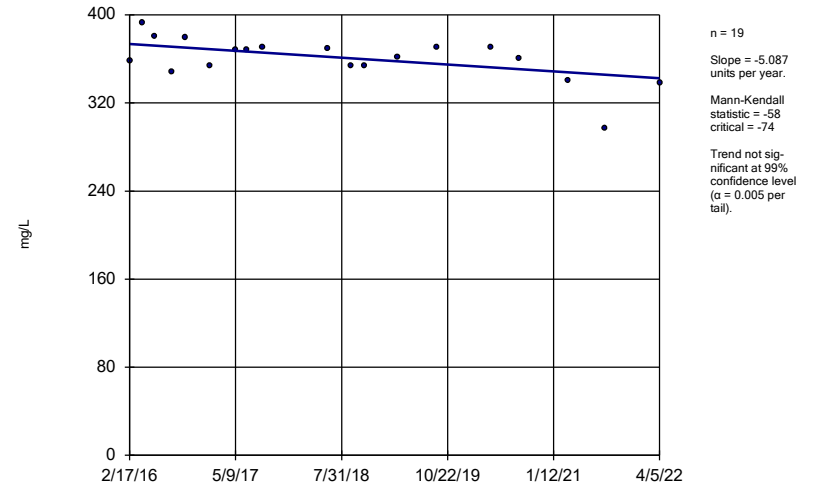
Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-29 (bg)



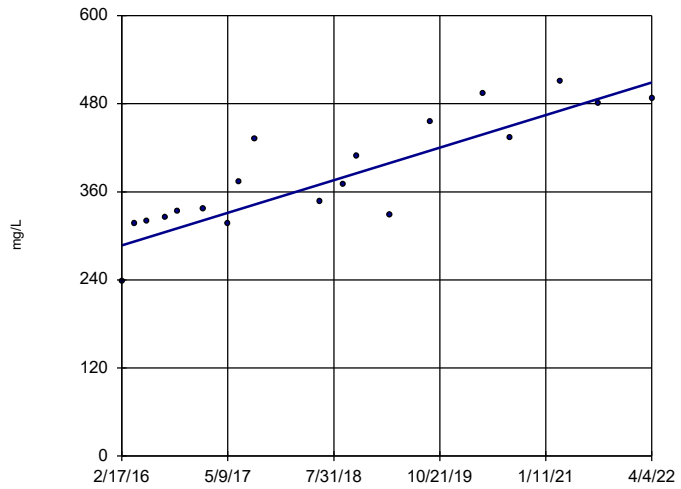
Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-3



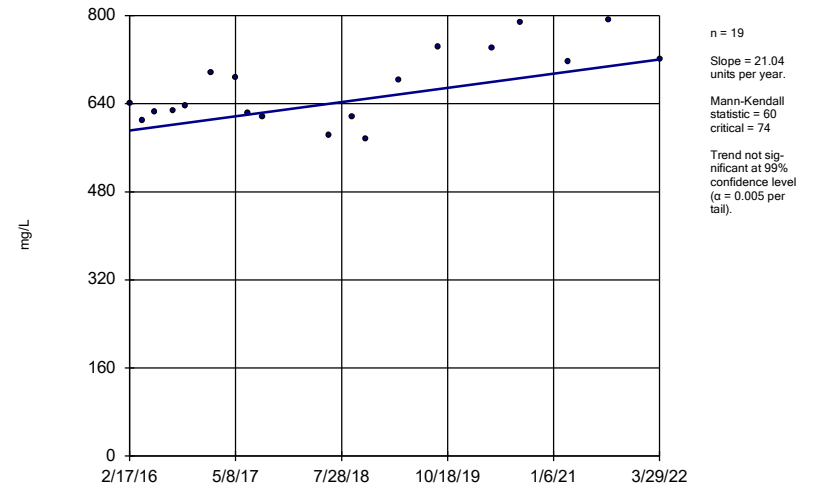
Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-5



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator GC-AP-MW-6



Constituent: TDS Analysis Run 6/1/2022 1:10 PM View: Trend
Plant Greene County Client: Southern Company Data: Greene County AP

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Greene County Client: Southern Company Data: Greene County AP Printed 11/18/2021, 6:28 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.00137	119	n/a	n/a	91.6	n/a	n/a	0.002234	NP Inter(NDs)
Arsenic (mg/L)	0.0044	119	n/a	n/a	83.19	n/a	n/a	0.002234	NP Inter(NDs)
Barium (mg/L)	0.347	119	n/a	n/a	0	n/a	n/a	0.002234	NP Inter(normality)
Beryllium (mg/L)	0.00226	119	n/a	n/a	86.55	n/a	n/a	0.002234	NP Inter(NDs)
Cadmium (mg/L)	0.000912	119	n/a	n/a	74.79	n/a	n/a	0.002234	NP Inter(normality)
Chromium (mg/L)	0.01	119	n/a	n/a	88.24	n/a	n/a	0.002234	NP Inter(NDs)
Cobalt (mg/L)	0.0167	119	n/a	n/a	57.98	n/a	n/a	0.002234	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	3.88	119	n/a	n/a	3.361	n/a	n/a	0.002234	NP Inter(normality)
Fluoride (mg/L)	0.159	120	n/a	n/a	67.5	n/a	n/a	0.002122	NP Inter(normality)
Lead (mg/L)	0.0002	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)
Lithium (mg/L)	0.02	119	n/a	n/a	100	n/a	n/a	0.002234	NP Inter(NDs)
Mercury (mg/L)	0.0005	119	n/a	n/a	100	n/a	n/a	0.002234	NP Inter(NDs)
Molybdenum (mg/L)	0.00308	119	n/a	n/a	97.48	n/a	n/a	0.002234	NP Inter(NDs)
Selenium (mg/L)	0.0072	119	n/a	n/a	89.92	n/a	n/a	0.002234	NP Inter(NDs)
Thallium (mg/L)	0.00039	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)

FIGURE G.

GREENE COUNTY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00137	0.006
Arsenic	mg/L	0.0044	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.00226	0.004
Cadmium	mg/L	0.000912	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	3.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.0002	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00308	0.1
Selenium	mg/L	0.0072	0.05
Thallium	mg/L	0.00039	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/10/2022, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.02595	0.0184	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.01419	0.01173	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.02872	0.02023	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.1032	0.06832	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.8918	0.3339	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.05079	0.04798	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4587	0.3915	0.01	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2714	0.1196	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.04267	0.02178	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01958	0.01687	0.0167	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.329	0.11	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1327	0.0719	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1441	0.06377	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.4979	0.1204	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.9722	0.5893	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6241	0.5512	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6624	0.5563	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.864	0.552	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-18	0.3944	0.3251	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1137	0.06087	0.04	Yes	8	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1376	0.1026	0.04	Yes	8	0	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/10/2022, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-12	0.00121	0.00102	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.00341	0.00185	0.006	No	8	0	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-17	0.00102	0.000897	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.00102	0.000964	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.00141	0.00102	0.006	No	8	87.5	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.00102	0.00066	0.006	No	8	75	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-1	0.02595	0.0184	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.01419	0.01173	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-11	0.005879	0.001998	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.000251	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-13	0.004863	0.001584	0.01	No	8	0	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.02872	0.02023	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-15	0.00046	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-16	0.1032	0.06832	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	0.8918	0.3339	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.05079	0.04798	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-2	0.01567	0.003015	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.000216	0.00014	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-25	0.00033	0.0002	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-3	0.01105	0.006592	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-31	0.0002	0.000111	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.0002	0.000142	0.01	No	8	75	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-33	0.0002	0.00015	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-5	0.4587	0.3915	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-6	0.000303	0.00013	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-7	0.0002	0.00008	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-8	0.00027	0.00015	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-9	0.01092	0.007675	0.01	No	8	0	x^4	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.03052	0.02016	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.2676	0.1709	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.09464	0.05316	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03552	0.02178	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.2005	0.06695	2	No	8	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1149	0.066	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.03905	0.02942	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.1042	0.06739	2	No	8	0	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3297	0.229	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1086	0.07623	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03604	0.02986	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.1024	0.04561	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1084	0.07735	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1527	0.09772	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.0321	0.02377	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0764	0.0123	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.0995	0.02902	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.323	0.131	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-6	0.07849	0.05964	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08588	0.07039	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1335	0.09094	2	No	8	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1886	0.1436	2	No	8	0	No	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-11	0.000347	0.0002	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.0002	0.00008	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.00046	0.00012	0.005	No	8	62.5	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-2	0.0002	0.00012	0.005	No	8	75	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-21	0.0002	0.00007	0.005	No	8	75	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-25	0.0002	0.00007	0.005	No	8	75	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.00018	0.005	No	8	62.5	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-8	0.000241	0.0002	0.005	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.00102	0.00034	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-10	0.00102	0.000357	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-11	0.00102	0.00023	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-12	0.00102	0.000224	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-13	0.00102	0.00026	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-14	0.00102	0.00023	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-15	0.00102	0.00027	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-16	0.00102	0.00034	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-17	0.00102	0.000216	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-18	0.00102	0.00023	0.1	No	8	62.5	No	0.004	NP (normality)

Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/10/2022, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	GC-AP-MW-2	0.00267	0.0003	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-21	0.00102	0.00022	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-25	0.00102	0.00028	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-3	0.00102	0.00032	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-31	0.00102	0.00039	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-32	0.00102	0.00038	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-33	0.00102	0.00044	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-5	0.00102	0.00025	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-6	0.00102	0.00026	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-7	0.00102	0.00024	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-8	0.00102	0.00027	0.1	No	8	62.5	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-9	0.00102	0.00027	0.1	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-1	0.2714	0.1196	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.04203	0.014	0.0167	No	8	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.03895	0.01457	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-12	0.00118	0.0002	0.0167	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-13	0.00126	0.00007	0.0167	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-14	0.04267	0.02178	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01958	0.01687	0.0167	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01672	0.01423	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.0321	0.0109	0.0167	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-18	0.01792	0.01573	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.02973	0.01292	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-21	0.00284	0.0002	0.0167	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-25	0.01322	0.009578	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.00463	0.0002	0.0167	No	8	12.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-31	0.000624	0.0002	0.0167	No	8	62.5	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-32	0.00105	0.0002	0.0167	No	8	75	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-33	0.00099	0.0002	0.0167	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.008915	0.005452	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003646	0.002109	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003817	0.001626	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.01065	0.005562	0.0167	No	8	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.02726	0.01437	0.0167	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.479	0.8662	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.647	0.7269	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.6939	0.4979	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.043	0.0003309	5	No	8	0	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.5627	0.3043	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.374	0.7391	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	0.7216	0.248	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.288	0.4672	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.248	1.082	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.552	0.8931	5	No	8	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.383	0.4359	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.7428	0.04578	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	0.7915	0.1545	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.317	0.6006	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.7125	0.1816	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	1.976	-0.3098	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.296	0.7576	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.033	1.13	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.244	0.5642	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.129	0.512	5	No	8	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.446	0.3853	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.653	1.047	5	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1819	0.08232	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2932	0.204	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1802	0.08211	4	No	8	12.5	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2389	0.1444	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1287	0.06755	4	No	8	12.5	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.2691	0.2077	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1502	0.1104	4	No	8	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.3018	0.2416	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.6008	0.4711	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.2075	0.1534	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1577	0.06995	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.2197	0.09989	4	No	8	12.5	No	0.01	Param.

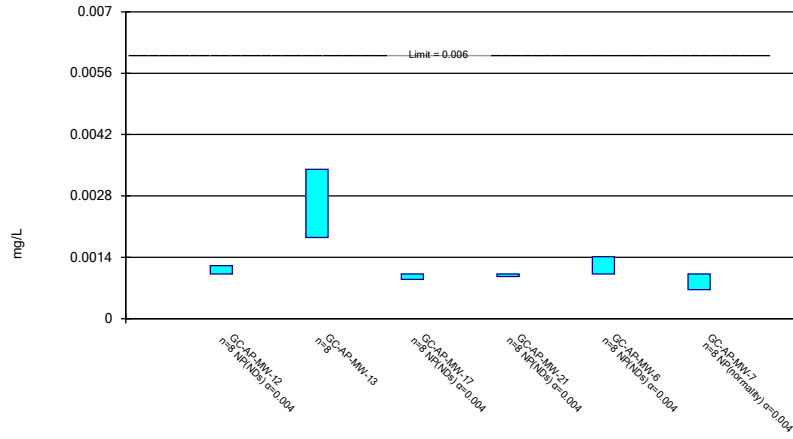
Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 6/10/2022, 1:05 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-25	0.104	0.0625	4	No	8	62.5	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-3	0.1914	0.1013	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-32	0.0625	0.0518	4	No	8	87.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-33	0.08	0.0625	4	No	8	87.5	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-5	0.322	0.2	4	No	8	0	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-6	0.241	0.1753	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1058	0.08642	4	No	8	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.162	0.108	4	No	8	0	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.2172	0.1159	4	No	8	12.5	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.0002	0.00009	0.015	No	8	62.5	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-2	0.000736	0.0002	0.015	No	8	62.5	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-25	0.0002	0.0000884	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.0002	0.00015	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.0002	0.000121	0.015	No	8	75	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-33	0.0002	0.00015	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.0002	0.0000784	0.015	No	8	87.5	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-10	0.329	0.11	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-11	0.1327	0.0719	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1441	0.06377	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.4979	0.1204	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.9722	0.5893	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6241	0.5512	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6624	0.5563	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.864	0.552	0.04	Yes	8	0	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-18	0.3944	0.3251	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1137	0.06087	0.04	Yes	8	0	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1376	0.1026	0.04	Yes	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-6	0.03337	0.008532	0.04	No	8	12.5	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.07163	0.01377	0.04	No	8	0	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.1005	0.0254	0.04	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-1	0.0002	0.000117	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.0132	0.00747	0.1	No	8	0	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-11	0.01754	0.006512	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.1169	0.05569	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.08885	0.01377	0.1	No	8	0	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01812	0.01196	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.0002	0.000113	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-17	0.06869	0.04624	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.0004	0.0002	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-2	0.0002	0.0000804	0.1	No	8	75	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-21	0.06508	0.01395	0.1	No	8	0	x^2	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-25	0.0002	0.0000843	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.0002	0.0000741	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.003495	0.002752	0.1	No	8	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.0024	0.0002	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-7	0.0002	0.00013	0.1	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-8	0.0002	0.0000812	0.1	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.00221	0.00102	0.05	No	8	62.5	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-12	0.00281	0.00102	0.05	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.02915	0.001838	0.05	No	8	25	No	0.01	Param.
Selenium (mg/L)	GC-AP-MW-2	0.00102	0.00054	0.05	No	8	75	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-3	0.00102	0.00074	0.05	No	8	62.5	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-32	0.00102	0.00059	0.05	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.00102	0.00071	0.05	No	8	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.0002	0.000107	0.002	No	8	62.5	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-11	0.0002	0.00007	0.002	No	8	62.5	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-13	0.001712	0.0002843	0.002	No	8	0	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.0002	0.0000878	0.002	No	8	75	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-16	0.0003935	0.0003285	0.002	No	8	0	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-2	0.0002	0.000101	0.002	No	8	62.5	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-21	0.0002	0.000106	0.002	No	8	75	No	0.004	NP (normality)

Parametric and Non-Parametric (NP) Confidence Interval

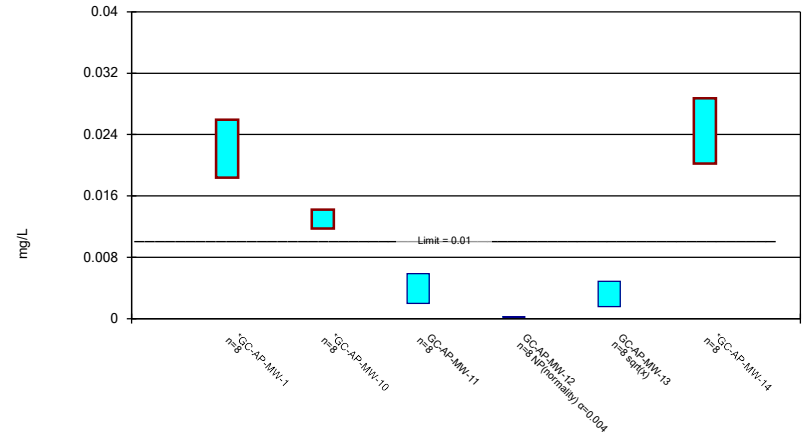
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

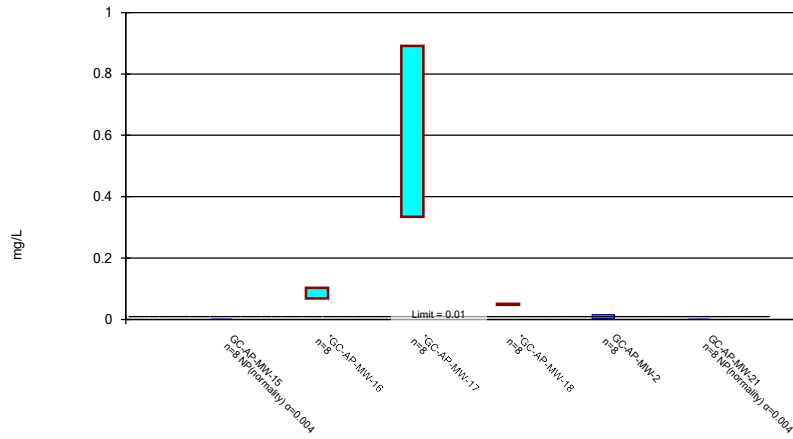
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Constituent: Arsenic Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

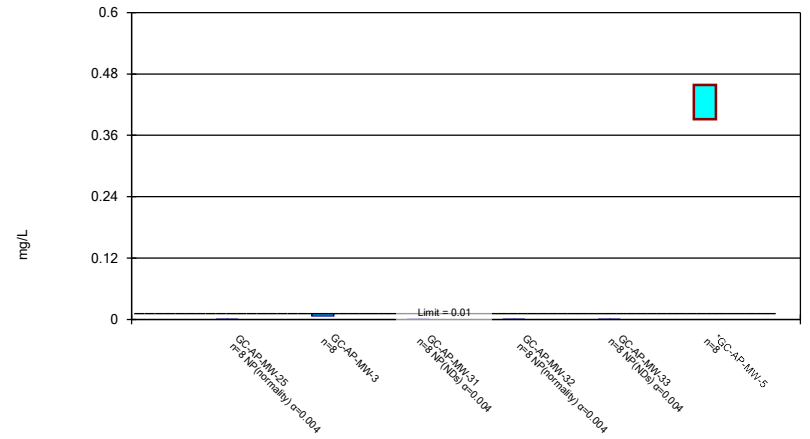
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Constituent: Arsenic Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

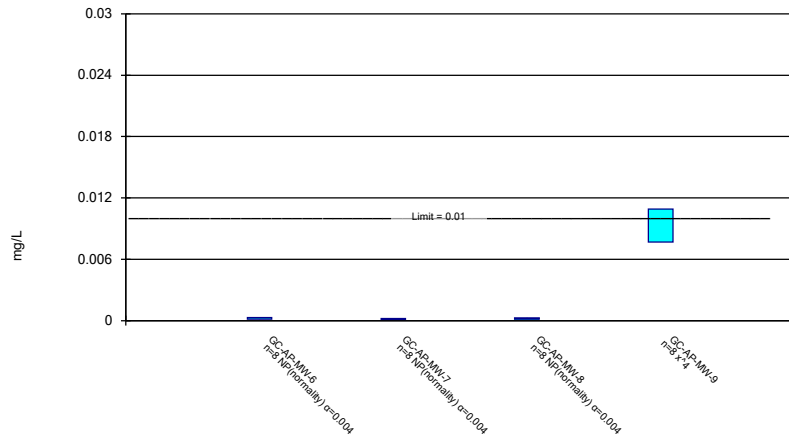
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Constituent: Arsenic Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

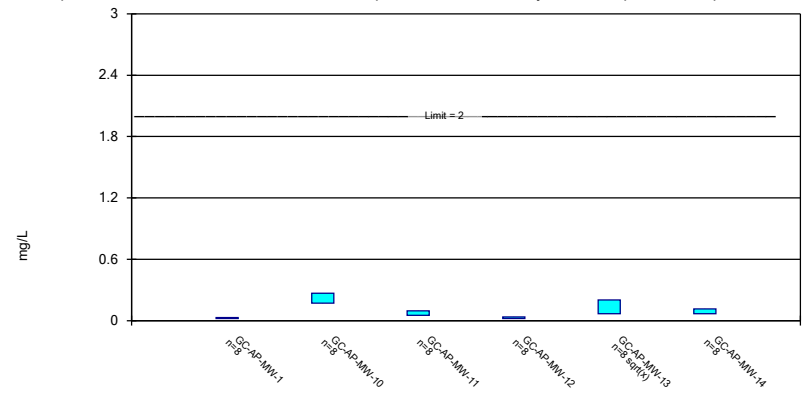
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Constituent: Arsenic Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

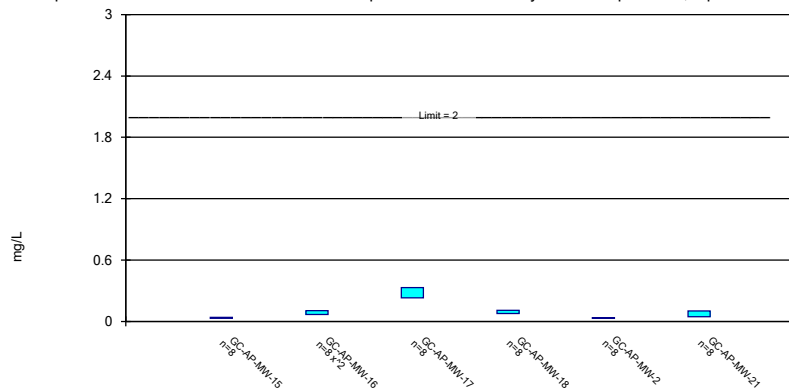
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Constituent: Barium Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

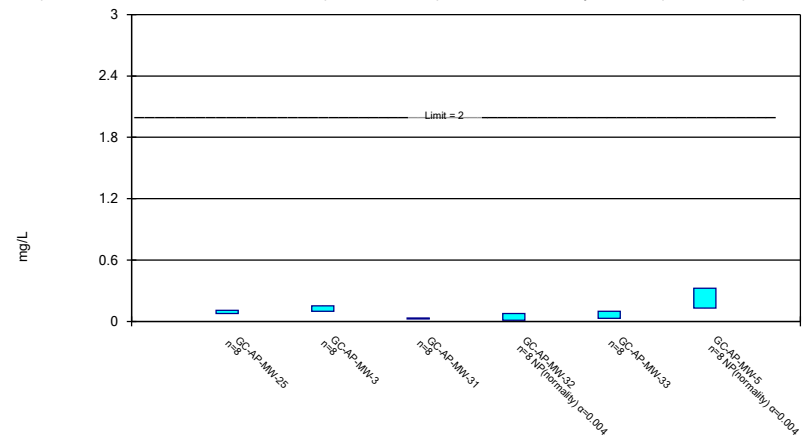
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Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

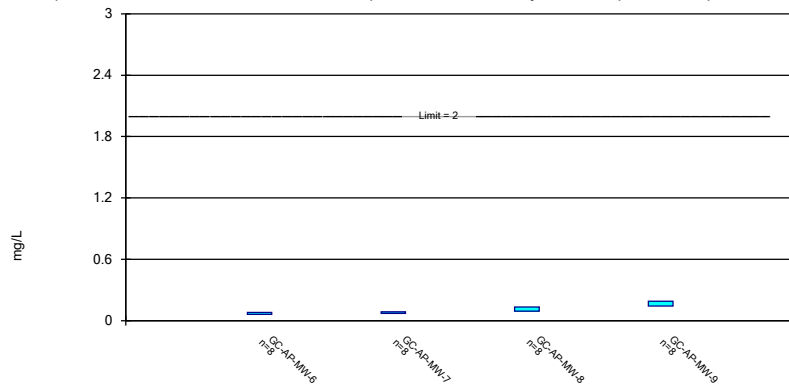
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Constituent: Barium Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

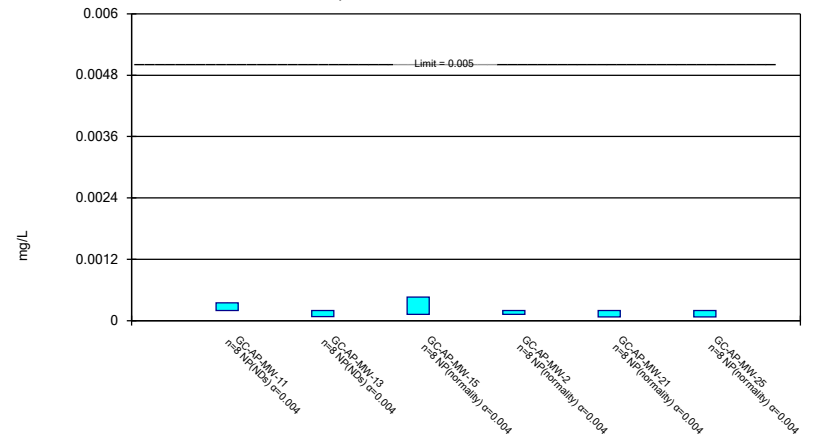
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Constituent: Barium Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

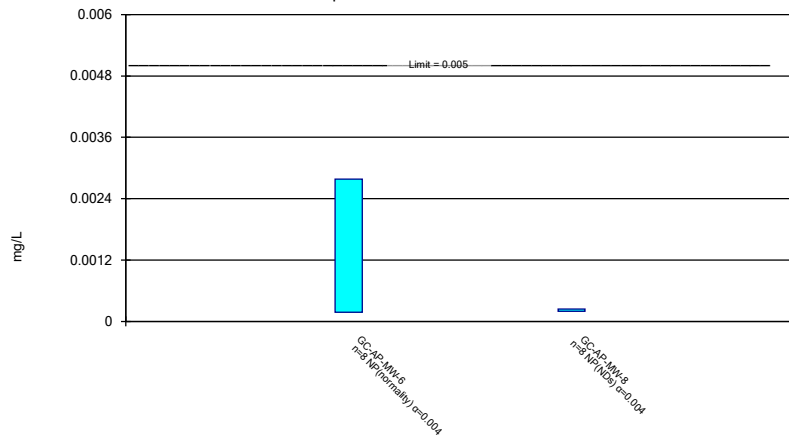
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Constituent: Cadmium Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

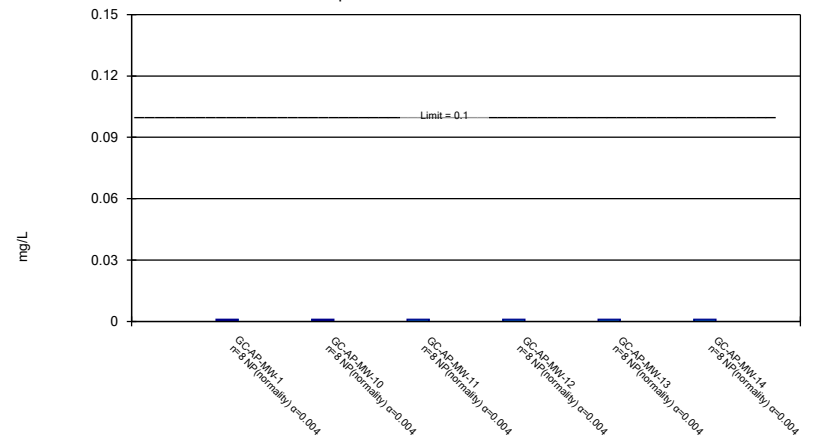
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Constituent: Cadmium Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

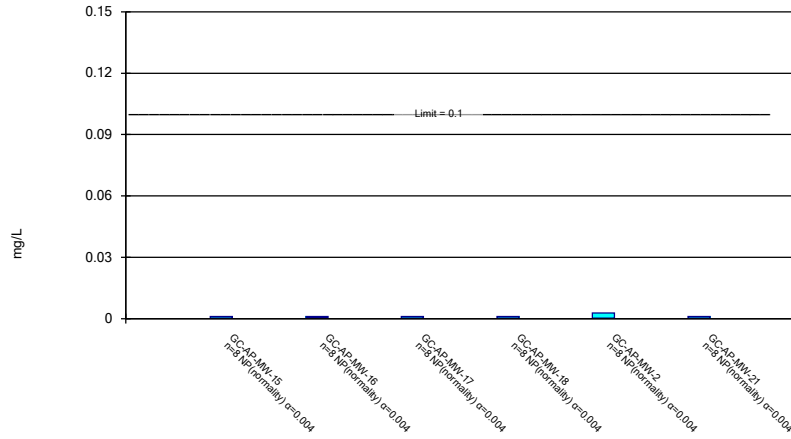
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Constituent: Chromium Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

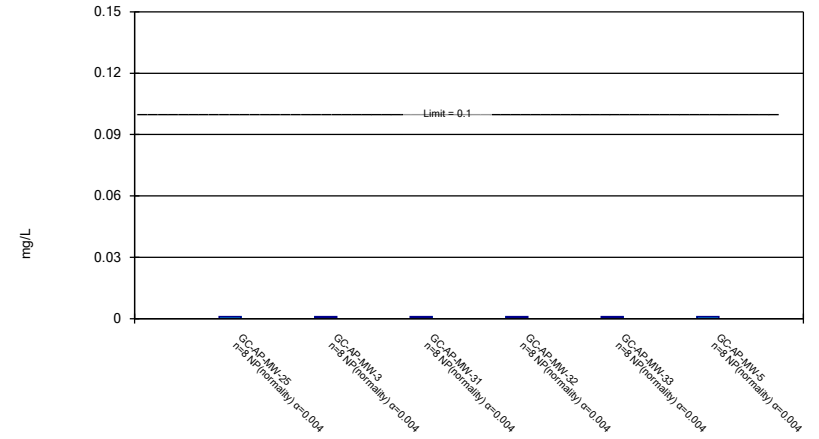
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Constituent: Chromium Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

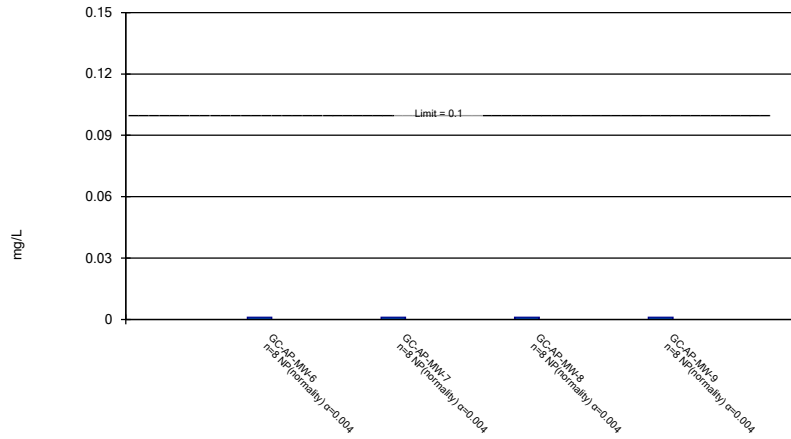
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Constituent: Chromium Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

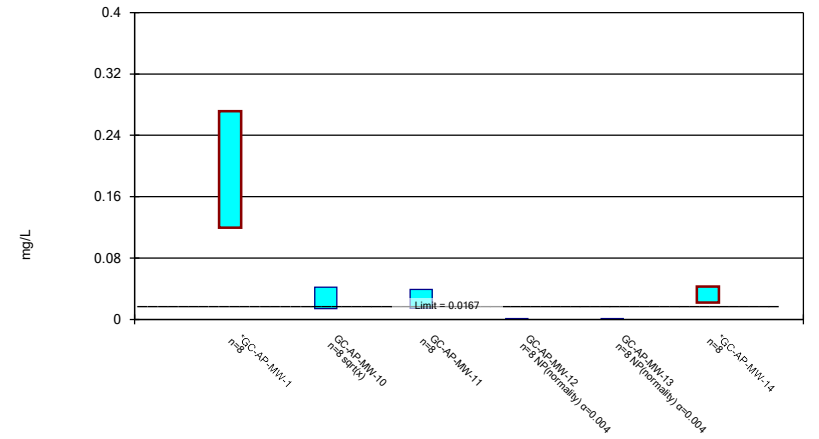
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Constituent: Chromium Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

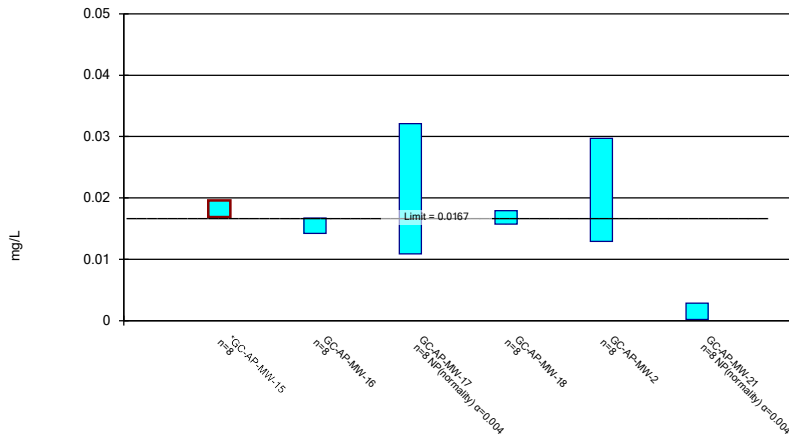
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Constituent: Cobalt Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

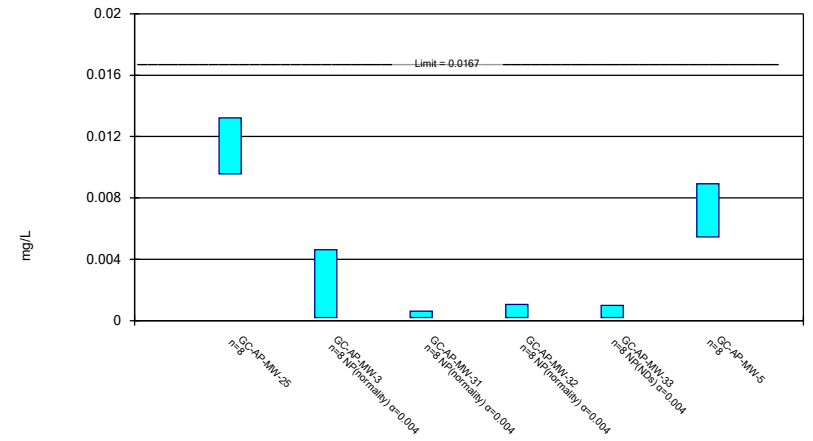
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Constituent: Cobalt Analysis Run 6/10/2022 1:03 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

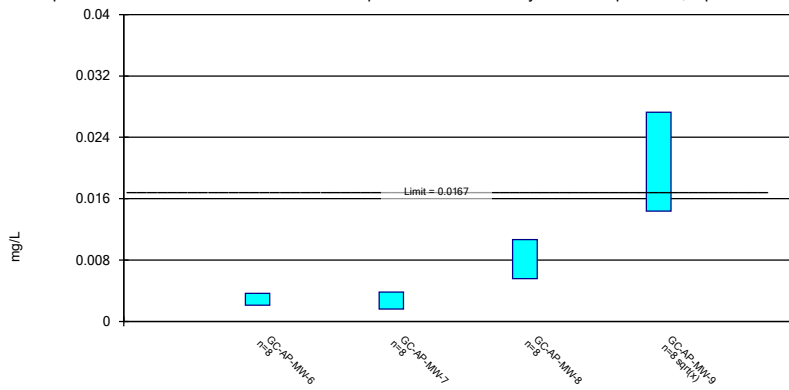
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Constituent: Cobalt Analysis Run 6/10/2022 1:03 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

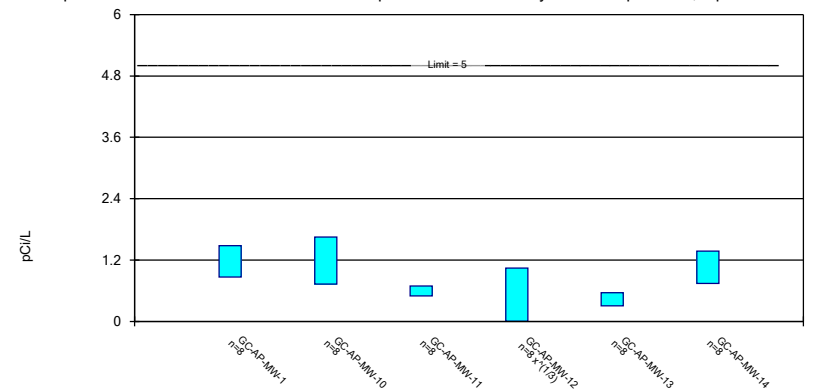
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Constituent: Cobalt Analysis Run 6/10/2022 1:03 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

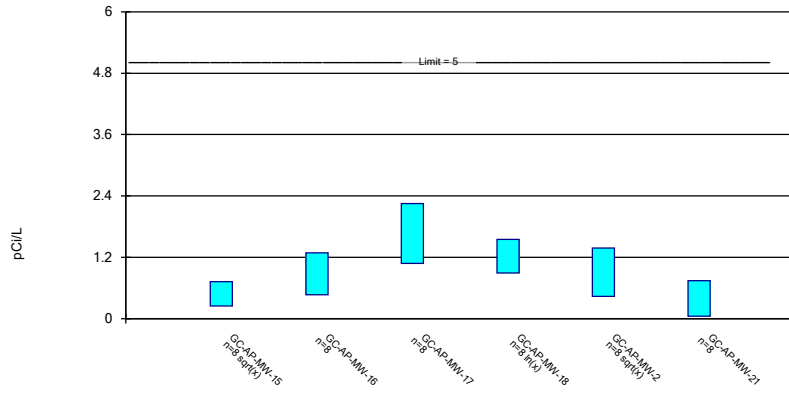
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Constituent: Combined Radium 226 + 228 Analysis Run 6/10/2022 1:03 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

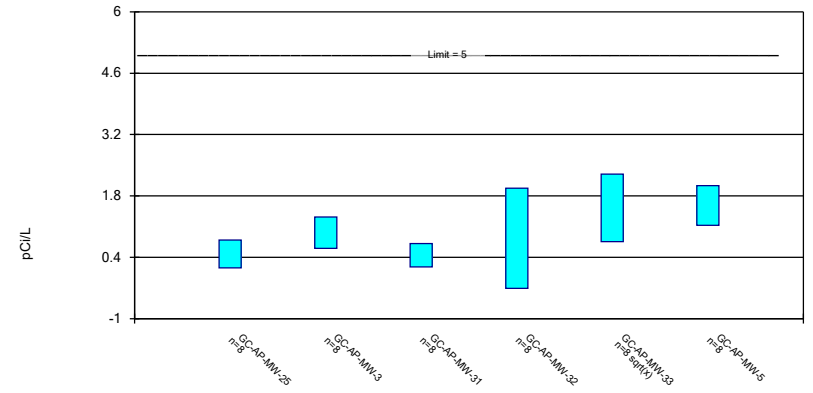
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Constituent: Combined Radium 226 + 228 Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

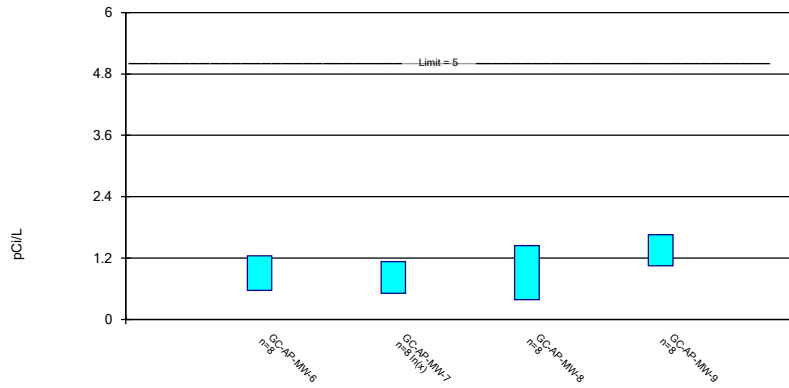
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

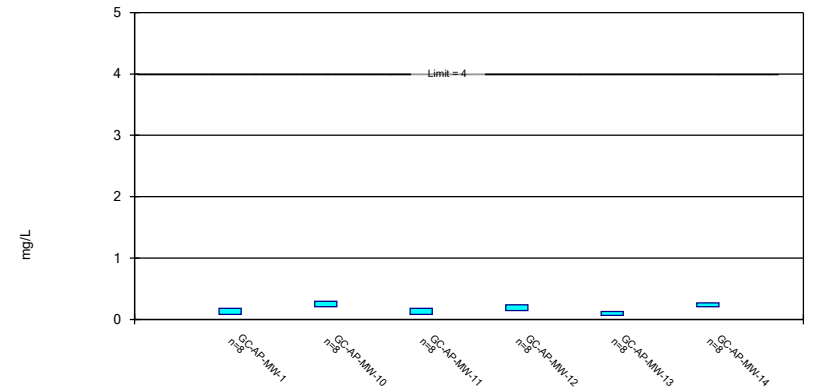
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

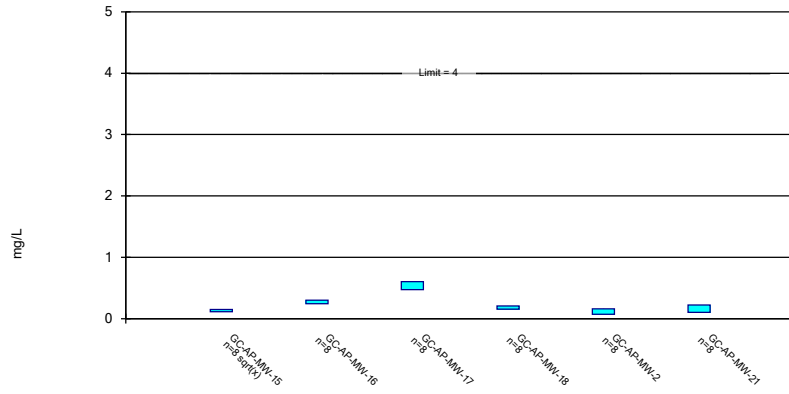
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

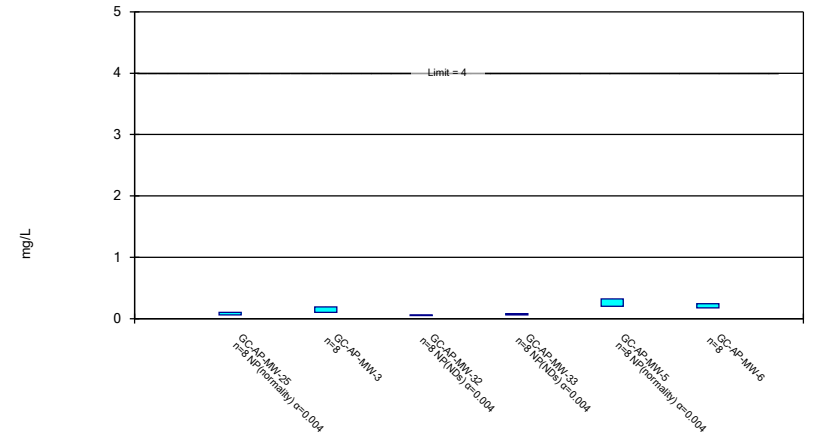
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

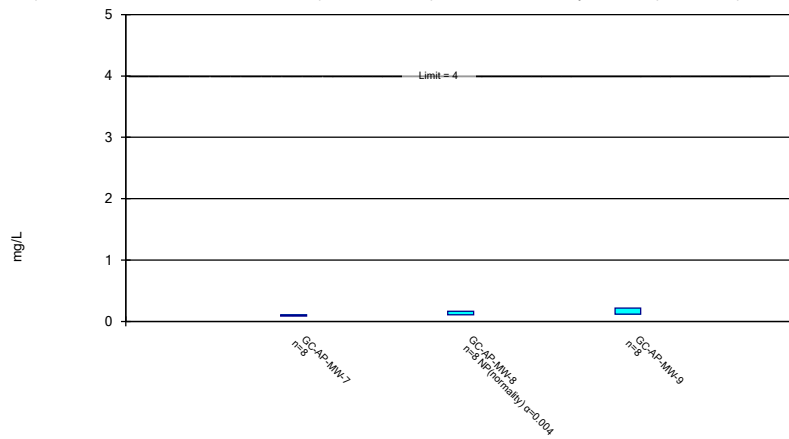
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

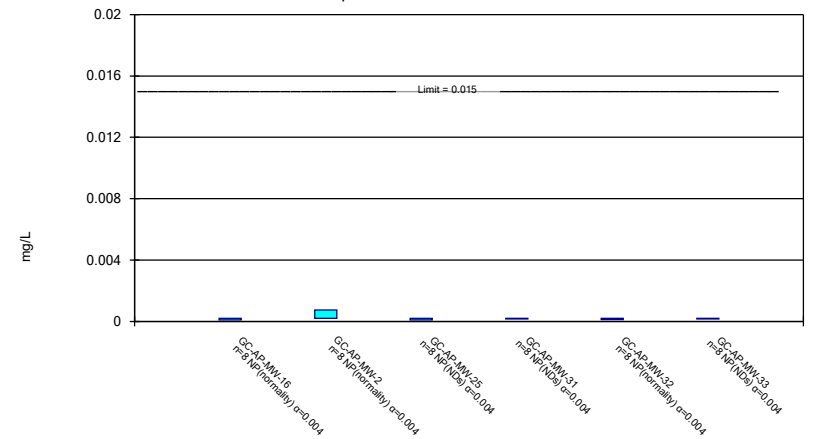
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

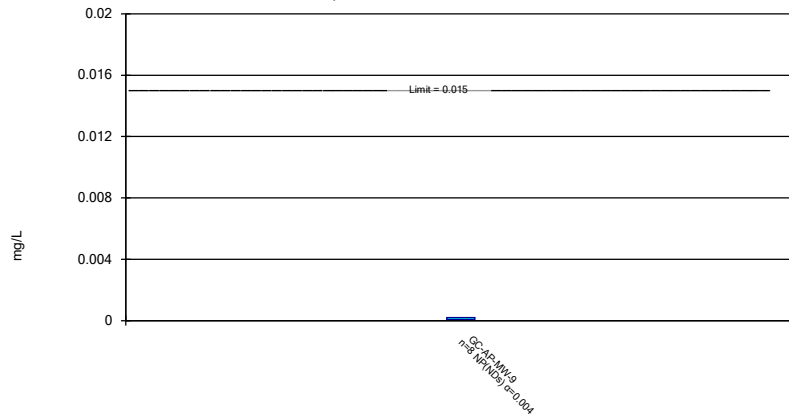
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

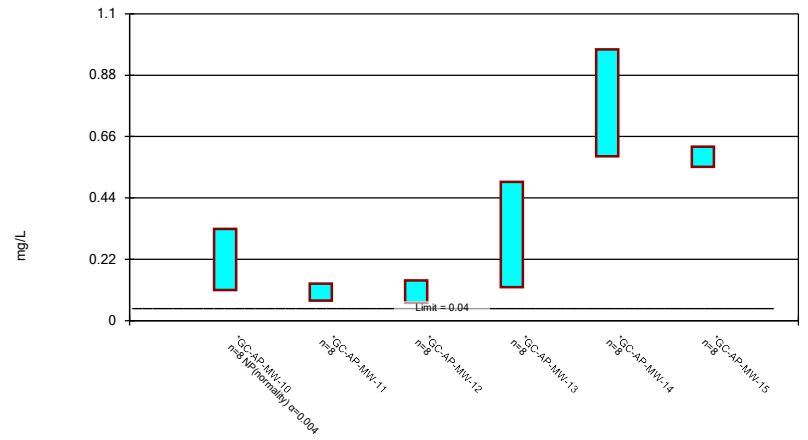
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 6/10/2022 1:03 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

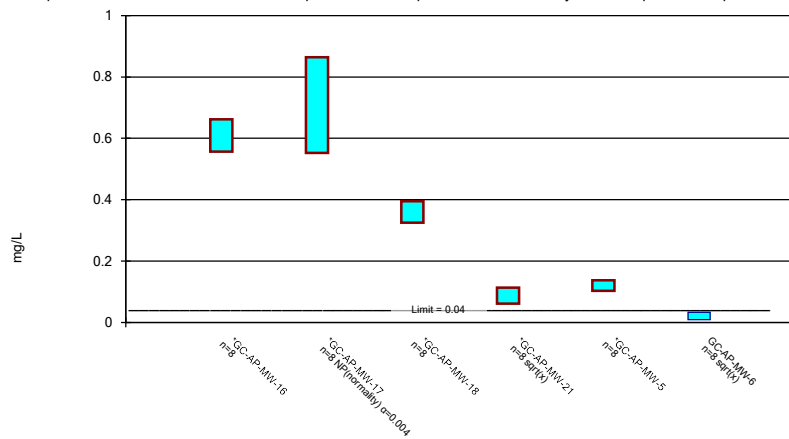
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/10/2022 1:03 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

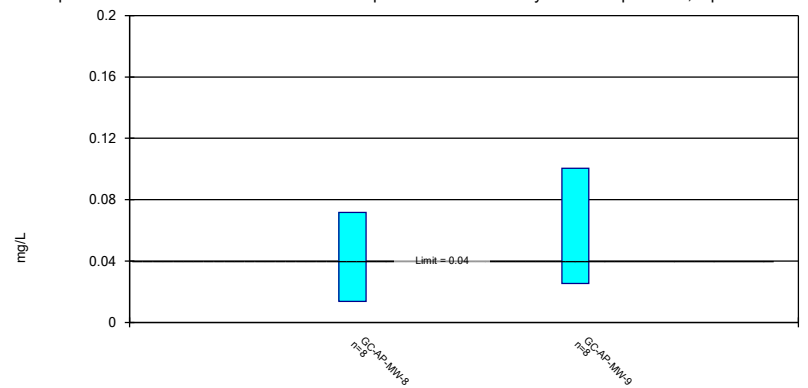
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/10/2022 1:03 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric Confidence Interval

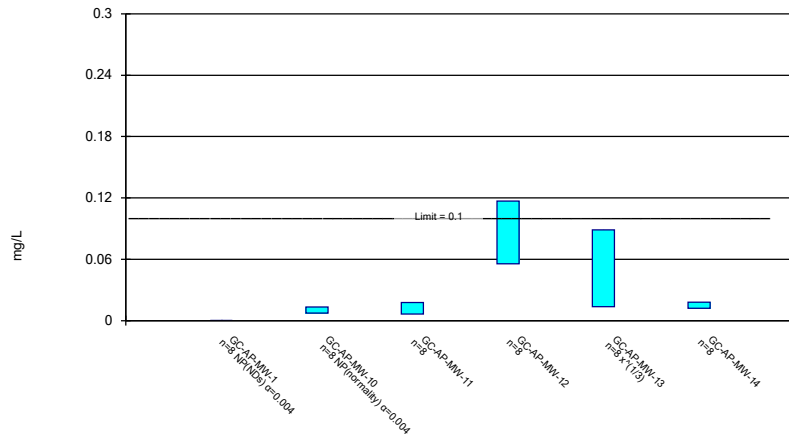
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/10/2022 1:03 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

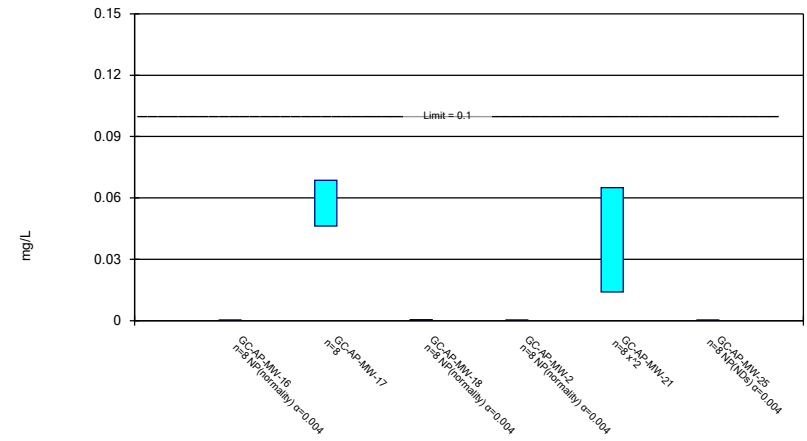
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

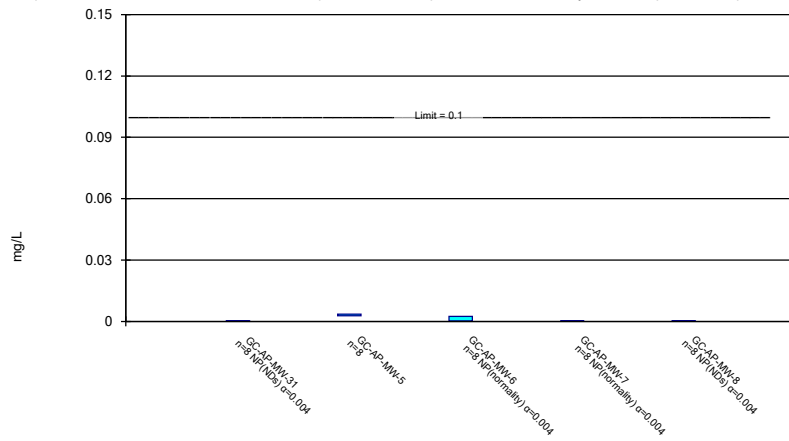
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

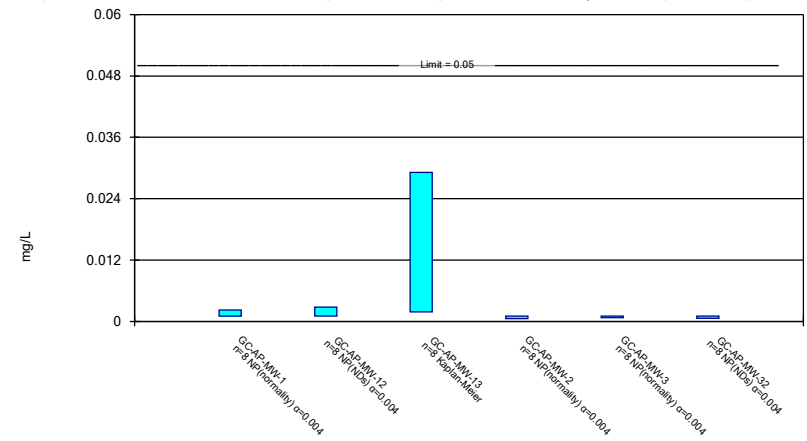
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/10/2022 1:03 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

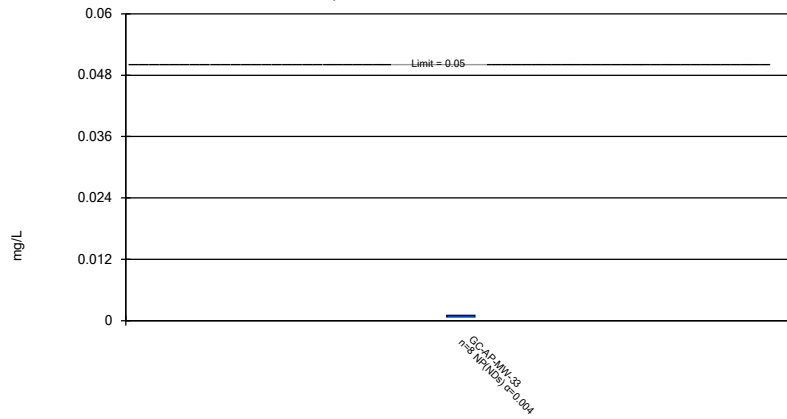
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/10/2022 1:04 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

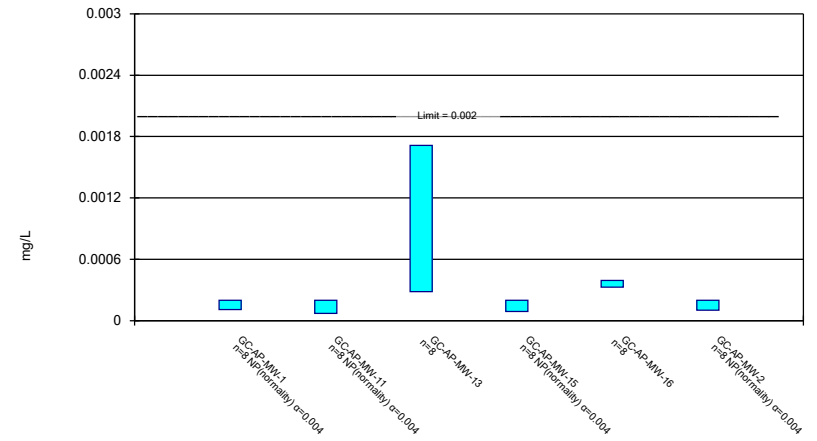
Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 6/10/2022 1:04 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Parametric and Non-Parametric (NP) Confidence Interval

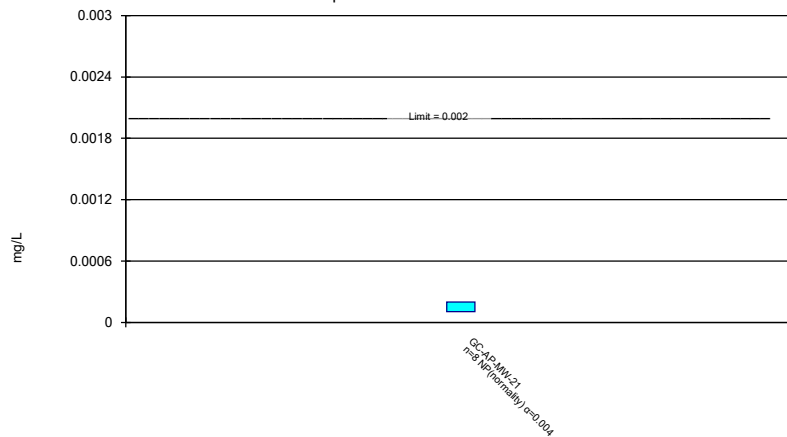
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 6/10/2022 1:04 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 6/10/2022 1:04 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 6/10/2022 1:05 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-17	GC-AP-MW-21	GC-AP-MW-6	GC-AP-MW-7
11/5/2018	<0.00102	0.00275 (J)		<0.00102		
11/6/2018			<0.00102			
11/7/2018					<0.00102	<0.00102
3/26/2019	0.00121 (J)	0.00219 (J)	0.000897 (J)	0.000964 (J)	0.00141 (J)	<0.00102
9/9/2019			<0.00102			
9/10/2019	<0.00102			<0.00102	<0.00102	<0.00102
9/11/2019		0.00261 (J)				
4/20/2020		0.00338				
4/21/2020	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102
8/11/2020			<0.00102			
8/18/2020	<0.00102	0.00388		<0.00102		
8/19/2020					<0.00102	<0.00102
3/9/2021			<0.00102		<0.00102	<0.00102
3/10/2021	<0.00102			<0.00102		
3/15/2021		0.0016				
8/17/2021			<0.00102			
8/24/2021					<0.00102	0.00075 (J)
8/25/2021	<0.00102	0.00263		<0.00102		
3/29/2022	<0.00102				<0.00102	0.00066 (J)
3/30/2022				<0.00102		
4/4/2022			<0.00102			
4/6/2022		0.002				
Mean	0.001044	0.00263	0.001005	0.001013	0.001069	0.0009412
Std. Dev.	6.718E-05	0.0007359	4.349E-05	1.98E-05	0.0001379	0.0001478
Upper Lim.	0.00121	0.00341	0.00102	0.00102	0.00141	0.00102
Lower Lim.	0.00102	0.00185	0.000897	0.000964	0.00102	0.00066

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 1:05 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14
11/5/2018			0.00195 (J)	<0.0002	0.00497 (J)	
11/6/2018	0.0189					
11/7/2018		0.0152				0.0289
3/26/2019				<0.0002	0.00251 (J)	
3/27/2019	0.0267	0.014	0.00573			0.0264
9/10/2019	0.0226	0.0132	0.00378 (J)	<0.0002		0.0263
9/11/2019					0.00664	
4/20/2020					0.00181 (J)	
4/21/2020	0.0219			<0.0002		0.0178
4/22/2020		0.0121	0.00616			
8/11/2020						0.0207
8/17/2020	0.0265					
8/18/2020		0.0121	0.00457 (J)	<0.0002	0.00176 (J)	
3/9/2021						0.0292
3/10/2021			0.00317	0.000251		
3/15/2021		0.0125			0.00207	
3/16/2021	0.0238					
8/17/2021	0.0206					
8/24/2021		0.0129				
8/25/2021			0.00518	0.00023	0.00302	0.0224
3/29/2022				0.00023		
3/30/2022			0.00097			
4/4/2022	0.0164	0.0117				0.0241
4/6/2022					0.00261	
Mean	0.02218	0.01296	0.003939	0.0002139	0.003174	0.02448
Std. Dev.	0.003558	0.001161	0.001831	2.022E-05	0.001736	0.004003
Upper Lim.	0.02595	0.01419	0.005879	0.000251	0.004863	0.02872
Lower Lim.	0.0184	0.01173	0.001998	0.0002	0.001584	0.02023

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21
11/5/2018						<0.0002
11/6/2018	<0.0002	0.0701	0.299	0.0509	0.0085	
3/26/2019	<0.0002	0.0952	0.32	0.0477		<0.0002
3/27/2019					0.0101	
9/9/2019			0.356	0.0498	0.022	
9/10/2019	<0.0002	0.0786				<0.0002
4/20/2020	<0.0002	0.105				
4/21/2020			0.689	0.0478	0.013	<0.0002
8/11/2020		0.0698	0.581			
8/12/2020	<0.0002			0.0485		
8/17/2020					0.00768	
8/18/2020						<0.0002
3/9/2021		0.113	0.86	0.0505		
3/10/2021	0.000349					0.000216
3/16/2021					0.0045	
8/17/2021		0.0765	0.937	0.0509	0.00514	
8/25/2021	0.00046					0.00014 (J)
3/28/2022					0.00381	
3/29/2022	0.00032					
3/30/2022						0.00017 (J)
4/4/2022			0.861			
4/6/2022		0.078		0.049		
Mean	0.0002661	0.08578	0.6129	0.04939	0.009341	0.0001907
Std. Dev.	9.944E-05	0.01647	0.2632	0.001325	0.005968	2.412E-05
Upper Lim.	0.00046	0.1032	0.8918	0.05079	0.01567	0.000216
Lower Lim.	0.0002	0.06832	0.3339	0.04798	0.003015	0.00014

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
11/5/2018				<0.0002		
11/6/2018	<0.0002	0.00685	<0.0002		<0.0002	0.432
3/27/2019	<0.0002	0.00596	<0.0002	<0.0002	<0.0002	0.455
9/9/2019		0.00806				
9/10/2019	<0.0002					
9/11/2019			<0.0002	<0.0002	<0.0002	0.406
4/20/2020		0.00751				
4/21/2020						0.42
4/22/2020	<0.0002		<0.0002	<0.0002	<0.0002	
8/11/2020	<0.0002		<0.0002			
8/12/2020				<0.0002	<0.0002	0.415
8/17/2020		0.00909				
3/10/2021	0.00033					
3/15/2021			0.000111 (J)	0.000142 (J)	<0.0002	
3/16/2021		0.0112				0.473
8/17/2021		0.0119				
8/23/2021			<0.0002	0.00019 (J)	<0.0002	0.368
8/24/2021	0.00028					
3/28/2022			<0.0002	<0.0002	0.00015 (J)	
3/29/2022	0.00026					
4/4/2022						0.432
4/5/2022		0.01				
Mean	0.0002337	0.008821	0.0001889	0.0001915	0.0001937	0.4251
Std. Dev.	5.041E-05	0.002103	3.147E-05	2.03E-05	1.768E-05	0.03171
Upper Lim.	0.00033	0.01105	0.0002	0.0002	0.0002	0.4587
Lower Lim.	0.0002	0.006592	0.000111	0.000142	0.00015	0.3915

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
11/7/2018	<0.0002	<0.0002	<0.0002	0.0098
3/26/2019	<0.0002	<0.0002	<0.0002	0.00969
9/10/2019	<0.0002	<0.0002	<0.0002	0.0108
4/21/2020	<0.0002	<0.0002	<0.0002	0.0102
8/18/2020				0.0108
8/19/2020	<0.0002	<0.0002	<0.0002	
3/9/2021	0.000303	0.00015 (J)	0.000248	0.0105
8/24/2021	0.00028	0.0001 (J)	0.00027	0.00695
3/29/2022	0.00013 (J)	8E-05 (J)	0.00015 (J)	0.00316
Mean	0.0002141	0.0001662	0.0002085	0.008988
Std. Dev.	5.387E-05	5.041E-05	3.611E-05	0.002662
Upper Lim.	0.000303	0.0002	0.00027	0.01092
Lower Lim.	0.00013	8E-05	0.00015	0.007675

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14
11/5/2018			0.0588	0.0255	0.113	
11/6/2018	0.0348					
11/7/2018		0.171				0.0575
3/26/2019				0.0218	0.109	
3/27/2019	0.0286	0.167	0.0678			0.0768
9/10/2019	0.0283	0.199	0.0651	0.0233		0.0685
9/11/2019					0.275	
4/20/2020					0.104	
4/21/2020	0.0206			0.0325		0.102
4/22/2020		0.186	0.0967			
8/11/2020						0.0806
8/17/2020	0.0218					
8/18/2020		0.223	0.0866	0.021	0.199	
3/9/2021						0.125
3/10/2021			0.0637	0.0373		
3/15/2021		0.261			0.0699	
3/16/2021	0.024					
8/17/2021	0.0211					
8/24/2021		0.287				
8/25/2021			0.104	0.0323	0.114	0.11
3/29/2022				0.0355		
3/30/2022			0.0485			
4/4/2022	0.0235	0.26				0.103
4/6/2022					0.0701	
Mean	0.02534	0.2193	0.0739	0.02865	0.1318	0.09043
Std. Dev.	0.004885	0.04564	0.01956	0.006479	0.07033	0.02305
Upper Lim.	0.03052	0.2676	0.09464	0.03552	0.2005	0.1149
Lower Lim.	0.02016	0.1709	0.05316	0.02178	0.06695	0.066

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21
11/5/2018						0.0509
11/6/2018	0.0271	0.0574	0.202	0.109	0.0286	
3/26/2019	0.0282	0.0626	0.242	0.117		0.047
3/27/2019					0.0311	
9/9/2019			0.319	0.101	0.035	
9/10/2019	0.0348	0.0754				0.0568
4/20/2020	0.0338	0.0921				
4/21/2020			0.306	0.0926	0.0335	0.0763
8/11/2020		0.0948	0.29			
8/12/2020	0.0352			0.0815		
8/17/2020					0.0376	
8/18/2020						0.0517
3/9/2021		0.102	0.352	0.0849		
3/10/2021	0.0365					0.111
3/16/2021					0.033	
8/17/2021		0.101	0.254	0.0763	0.0347	
8/25/2021	0.0402					0.0865
3/28/2022					0.0301	
3/29/2022	0.0381					
3/30/2022						0.112
4/4/2022			0.27			
4/6/2022		0.103		0.0769		
Mean	0.03424	0.08604	0.2794	0.0924	0.03295	0.07403
Std. Dev.	0.004542	0.01837	0.04748	0.01526	0.002919	0.02681
Upper Lim.	0.03905	0.1042	0.3297	0.1086	0.03604	0.1024
Lower Lim.	0.02942	0.06739	0.229	0.07623	0.02986	0.04561

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
11/5/2018				0.0123		
11/6/2018	0.0807	0.0936	0.0211		0.0726	0.306
3/27/2019	0.0901	0.0951	0.025	0.0134	0.0912	0.251
9/9/2019		0.111				
9/10/2019	0.101					
9/11/2019			0.0267	0.0147	0.0824	0.323
4/20/2020		0.109				
4/21/2020						0.138
4/22/2020	0.11		0.0285	0.0133	0.102	
8/11/2020	0.111		0.0264			
8/12/2020				0.0127	0.0601	0.134
8/17/2020		0.139				
3/10/2021	0.0797					
3/15/2021			0.0316	0.0692	0.0144	
3/16/2021		0.159				0.143
8/17/2021		0.15				
8/23/2021			0.0317	0.0764	0.0141	0.139
8/24/2021	0.0988					
3/28/2022			0.0325	0.0132	0.0773	
3/29/2022	0.0717					
4/4/2022						0.131
4/5/2022		0.145				
Mean	0.09288	0.1252	0.02794	0.02815	0.06426	0.1956
Std. Dev.	0.01464	0.02594	0.003928	0.02763	0.03325	0.08345
Upper Lim.	0.1084	0.1527	0.0321	0.0764	0.0995	0.323
Lower Lim.	0.07735	0.09772	0.02377	0.0123	0.02902	0.131

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
11/7/2018	0.0527	0.0739	0.0855	0.141
3/26/2019	0.0682	0.0796	0.0911	0.175
9/10/2019	0.0789	0.0887	0.11	0.206
4/21/2020	0.0728	0.0762	0.116	0.175
8/18/2020				0.165
8/19/2020	0.0784	0.0816	0.119	
3/9/2021	0.0664	0.083	0.15	0.16
8/24/2021	0.0737	0.0782	0.122	0.168
3/29/2022	0.0614	0.0639	0.104	0.139
Mean	0.06906	0.07814	0.1122	0.1661
Std. Dev.	0.008894	0.007307	0.02006	0.02124
Upper Lim.	0.07849	0.08588	0.1335	0.1886
Lower Lim.	0.05964	0.07039	0.09094	0.1436

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-13	GC-AP-MW-15	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25
11/5/2018	<0.0002	<0.0002			<0.0002	
11/6/2018			<0.0002	<0.0002		<0.0002
3/26/2019		<0.0002	<0.0002		<0.0002	
3/27/2019	<0.0002			<0.0002		<0.0002
9/9/2019				<0.0002		
9/10/2019	<0.0002		<0.0002		<0.0002	<0.0002
9/11/2019		<0.0002				
4/20/2020		<0.0002	<0.0002			
4/21/2020				<0.0002	<0.0002	
4/22/2020	<0.0002					<0.0002
8/11/2020						<0.0002
8/12/2020			<0.0002			
8/17/2020				<0.0002		
8/18/2020	<0.0002	<0.0002			<0.0002	
3/10/2021	0.000347		0.00012 (J)		7.02E-05 (J)	<0.0002
3/15/2021		<0.0002				
3/16/2021				0.00013 (J)		
8/17/2021				<0.0002		
8/24/2021						9E-05 (J)
8/25/2021	<0.0002	<0.0002	0.00014 (J)		<0.0002	
3/28/2022				0.00012 (J)		
3/29/2022			0.00046			7E-05 (J)
3/30/2022	<0.0002				7E-05 (J)	
4/6/2022		8E-05 (J)				
Mean	0.0002184	0.000185	0.000215	0.0001812	0.0001675	0.00017
Std. Dev.	5.197E-05	4.243E-05	0.0001041	3.482E-05	6.013E-05	5.581E-05
Upper Lim.	0.000347	0.0002	0.00046	0.0002	0.0002	0.0002
Lower Lim.	0.0002	8E-05	0.00012	0.00012	7E-05	7E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-8
11/7/2018	<0.0002	<0.0002
3/26/2019	<0.0002	<0.0002
9/10/2019	<0.0002	<0.0002
4/21/2020	<0.0002	<0.0002
8/19/2020	<0.0002	<0.0002
3/9/2021	0.00278	0.000241
8/24/2021	0.00018 (J)	<0.0002
3/29/2022	0.0005	<0.0002
Mean	0.0005575	0.0002051
Std. Dev.	0.0009043	1.45E-05
Upper Lim.	0.00278	0.000241
Lower Lim.	0.00018	0.0002

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14
11/5/2018			<0.00102	<0.00102	<0.00102	
11/6/2018	<0.00102					
11/7/2018		<0.00102				<0.00102
3/26/2019				<0.00102	<0.00102	
3/27/2019	<0.00102	<0.00102	<0.00102			<0.00102
9/10/2019	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
9/11/2019					<0.00102	
4/20/2020					<0.00102	
4/21/2020	<0.00102			<0.00102		<0.00102
4/22/2020		<0.00102	<0.00102			
8/11/2020						<0.00102
8/17/2020	<0.00102					
8/18/2020		<0.00102	<0.00102	<0.00102	<0.00102	
3/9/2021						0.000357 (J)
3/10/2021			<0.00102	0.000224 (J)		
3/15/2021		0.000357 (J)			0.000311 (J)	
3/16/2021	0.000341 (J)					
8/17/2021	0.00034 (J)					
8/24/2021		0.00036 (J)				
8/25/2021			0.00027 (J)	0.00035 (J)	0.00026 (J)	0.00023 (J)
3/29/2022				0.00043 (J)		
3/30/2022			0.00023 (J)			
4/4/2022	0.00045 (J)	<0.00102				0.00025 (J)
4/6/2022					0.0003 (J)	
Mean	0.0007789	0.0008546	0.0008275	0.000763	0.0007464	0.0007421
Std. Dev.	0.0003345	0.0003062	0.0003566	0.000359	0.0003779	0.0003852
Upper Lim.	0.00102	0.00102	0.00102	0.00102	0.00102	0.00102
Lower Lim.	0.00034	0.000357	0.00023	0.000224	0.00026	0.00023

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21
11/5/2018						<0.00102
11/6/2018	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
3/26/2019	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
3/27/2019					<0.00102	
9/9/2019			<0.00102	<0.00102	<0.00102	
9/10/2019	<0.00102	<0.00102				<0.00102
4/20/2020	<0.00102	<0.00102				
4/21/2020			<0.00102	<0.00102	<0.00102	<0.00102
8/11/2020		<0.00102	<0.00102			
8/12/2020	<0.00102			<0.00102		
8/17/2020					<0.00102	
8/18/2020						<0.00102
3/9/2021		0.000444 (J)	0.000216 (J)	0.000346 (J)		
3/10/2021	0.000301 (J)					0.000333 (J)
3/16/2021					0.0004 (J)	
8/17/2021		0.0004 (J)	0.00022 (J)	0.00023 (J)	0.00267	
8/25/2021	0.00027 (J)					0.00027 (J)
3/28/2022					0.0003 (J)	
3/29/2022	<0.00102					
3/30/2022						0.00022 (J)
4/4/2022			0.00022 (J)			
4/6/2022		0.00034 (J)		0.00031 (J)		
Mean	0.0008364	0.0007855	0.0007195	0.0007482	0.001059	0.0007404
Std. Dev.	0.0003401	0.0003248	0.0004147	0.0003764	0.0007185	0.0003871
Upper Lim.	0.00102	0.00102	0.00102	0.00102	0.00267	0.00102
Lower Lim.	0.00027	0.00034	0.000216	0.00023	0.0003	0.00022

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
11/5/2018				<0.00102		
11/6/2018	<0.00102	<0.00102	<0.00102		<0.00102	<0.00102
3/27/2019	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/9/2019		<0.00102				
9/10/2019	<0.00102					
9/11/2019			<0.00102	<0.00102	<0.00102	<0.00102
4/20/2020		<0.00102				
4/21/2020						<0.00102
4/22/2020	<0.00102		<0.00102	<0.00102	<0.00102	
8/11/2020	<0.00102		<0.00102			
8/12/2020				<0.00102	<0.00102	<0.00102
8/17/2020		<0.00102				
3/10/2021	0.0003 (J)					
3/15/2021			0.000468 (J)	0.000431 (J)	0.000679 (J)	
3/16/2021		0.000347 (J)				0.000285 (J)
8/17/2021		0.00032 (J)				
8/23/2021			0.00042 (J)	0.00038 (J)	0.0005 (J)	0.00027 (J)
8/24/2021	0.00028 (J)					
3/28/2022			0.00039 (J)	0.00042 (J)	0.00044 (J)	
3/29/2022	0.00041 (J)					
4/4/2022						0.00025 (J)
4/5/2022		0.00039 (J)				
Mean	0.0007612	0.0007696	0.0007972	0.0007914	0.0008399	0.0007381
Std. Dev.	0.0003591	0.0003461	0.0003081	0.0003159	0.0002573	0.0003891
Upper Lim.	0.00102	0.00102	0.00102	0.00102	0.00102	0.00102
Lower Lim.	0.00028	0.00032	0.00039	0.00038	0.00044	0.00025

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
11/7/2018	<0.00102	<0.00102	<0.00102	<0.00102
3/26/2019	<0.00102	<0.00102	<0.00102	<0.00102
9/10/2019	<0.00102	<0.00102	<0.00102	<0.00102
4/21/2020	<0.00102	<0.00102	<0.00102	<0.00102
8/18/2020				<0.00102
8/19/2020	<0.00102	<0.00102	<0.00102	
3/9/2021	0.000347 (J)	0.000351 (J)	0.000346 (J)	0.000381 (J)
8/24/2021	0.00026 (J)	0.00036 (J)	0.00031 (J)	0.0003 (J)
3/29/2022	<0.00102	0.00024 (J)	0.00027 (J)	0.00027 (J)
Mean	0.0008409	0.0007564	0.0007532	0.0007564
Std. Dev.	0.0003325	0.0003656	0.0003687	0.0003651
Upper Lim.	0.00102	0.00102	0.00102	0.00102
Lower Lim.	0.00026	0.00024	0.00027	0.00027

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14
11/5/2018			0.0171	<0.0002	<0.0002	
11/6/2018	0.0898					
11/7/2018		0.015				0.0124
3/26/2019				<0.0002	<0.0002	
3/27/2019	0.176	0.014	0.0292			0.0303
9/10/2019	0.104	0.0191	0.02	<0.0002		0.0278
9/11/2019					<0.0002	
4/20/2020					<0.0002	
4/21/2020	0.206			<0.0002		0.0339
4/22/2020		0.0233	0.0319			
8/11/2020						0.0373
8/17/2020	0.195					
8/18/2020		0.0287	0.0298	<0.0002	<0.0002	
3/9/2021						0.0302
3/10/2021			0.0197	0.00118		
3/15/2021		0.0475			0.000312	
3/16/2021	0.257					
8/17/2021	0.24					
8/24/2021		0.0514				
8/25/2021			0.0507	0.00094	7E-05 (J)	0.0436
3/29/2022				0.00088		
3/30/2022			0.0157			
4/4/2022	0.296	0.0218				0.0423
4/6/2022					0.00126	
Mean	0.1955	0.0276	0.02676	0.0005	0.0003302	0.03223
Std. Dev.	0.07161	0.0143	0.0115	0.0004226	0.0003812	0.009855
Upper Lim.	0.2714	0.04203	0.03895	0.00118	0.00126	0.04267
Lower Lim.	0.1196	0.014	0.01457	0.0002	7E-05	0.02178

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21
11/5/2018						<0.0002
11/6/2018	0.0158	0.0141	0.0321	0.0158	0.0101	
3/26/2019	0.0184	0.0177	0.0192	0.0161		<0.0002
3/27/2019					0.0131	
9/9/2019			0.0121	0.0174	0.0154	
9/10/2019	0.0201	0.0162				<0.0002
4/20/2020	0.0189	0.0146				
4/21/2020			0.0158	0.0173	0.0194	<0.0002
8/11/2020		0.0148	0.0122			
8/12/2020	0.0184			0.0152		
8/17/2020					0.0249	
8/18/2020						<0.0002
3/9/2021		0.0162	0.0151	0.017		
3/10/2021	0.0189					0.00204
3/16/2021					0.0272	
8/17/2021		0.0155	0.0109	0.0175	0.0296	
8/25/2021	0.0181					0.00147
3/28/2022					0.0309	
3/29/2022	0.0172					
3/30/2022						0.00284
4/4/2022			0.0115			
4/6/2022		0.0147		0.0183		
Mean	0.01823	0.01548	0.01611	0.01683	0.02133	0.0009187
Std. Dev.	0.001278	0.001178	0.007032	0.001031	0.007927	0.001058
Upper Lim.	0.01958	0.01672	0.0321	0.01792	0.02973	0.00284
Lower Lim.	0.01687	0.01423	0.0109	0.01573	0.01292	0.0002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
11/5/2018				<0.0002		
11/6/2018	0.00791	0.00439 (J)	<0.0002		<0.0002	0.00545
3/27/2019	0.0114	0.00463 (J)	<0.0002	<0.0002	<0.0002	0.00614
9/9/2019		0.00413 (J)				
9/10/2019	0.0127					
9/11/2019			<0.0002	<0.0002	<0.0002	0.00767
4/20/2020		0.00396 (J)				
4/21/2020						0.00601
4/22/2020	0.0133		<0.0002	<0.0002	<0.0002	
8/11/2020	0.0126		<0.0002			
8/12/2020				<0.0002	<0.0002	0.00678
8/17/2020		<0.0002				
3/10/2021	0.0115					
3/15/2021			0.000624	0.000908	<0.0002	
3/16/2021		0.00076				0.00857
8/17/2021		0.00039				
8/23/2021			0.0006	0.00105	<0.0002	0.00645
8/24/2021	0.0117					
3/28/2022			0.00061	<0.0002	0.00099	
3/29/2022	0.0101					
4/4/2022						0.0104
4/5/2022		0.00083				
Mean	0.0114	0.002411	0.0003542	0.0003947	0.0002987	0.007184
Std. Dev.	0.00172	0.002014	0.000213	0.0003626	0.0002793	0.001633
Upper Lim.	0.01322	0.00463	0.000624	0.00105	0.00099	0.008915
Lower Lim.	0.009578	0.0002	0.0002	0.0002	0.0002	0.005452

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
11/7/2018	0.00258 (J)	0.00277 (J)	0.00651	0.0145
3/26/2019	0.00223 (J)	0.0024 (J)	0.00445 (J)	0.0167
9/10/2019	0.00306 (J)	0.0034 (J)	0.0108	0.0177
4/21/2020	0.00228 (J)	0.00206 (J)	0.0111	0.0166
8/18/2020				0.0164
8/19/2020	0.00278 (J)	0.0046 (J)	0.00975	
3/9/2021	0.00367	0.00181	0.00707	0.0247
8/24/2021	0.00419	0.00333	0.00898	0.0323
3/29/2022	0.00223	0.0014	0.00619	0.0267
Mean	0.002878	0.002721	0.008106	0.0207
Std. Dev.	0.0007248	0.001034	0.002401	0.006384
Upper Lim.	0.003646	0.003817	0.01065	0.02726
Lower Lim.	0.002109	0.001626	0.005562	0.01437

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14
11/5/2018			0.682	0.048 (U)	0.441 (U)	
11/6/2018	0.938					
11/7/2018		0.568				0.888
3/26/2019				0.381	0.471	
3/27/2019	1.17	0.988	0.564			1.1
9/10/2019	1.39	1.1	0.57	0.434 (U)		0.852
9/11/2019					0.557 (U)	
4/20/2020					0.256 (U)	
4/21/2020	0.712			-0.0655 (U)		0.653
4/22/2020		1.11	0.502 (U)			
8/11/2020						1.64
8/17/2020	1.46					
8/18/2020		1.08	0.457 (U)	0.135 (U)	0.568 (U)	
3/9/2021						1.28 (U)
3/10/2021			0.666 (U)	0.481 (U)		
3/15/2021		1.12 (U)			0.537 (U)	
3/16/2021	1.45					
8/17/2021	1.36					
8/24/2021		1.45				
8/25/2021			0.729 (U)	0.113 (U)	0.3 (U)	1.01
3/29/2022				1.37		
3/30/2022			0.597 (U)			
4/4/2022	0.899	2.08				1.03
4/6/2022					0.338 (U)	
Mean	1.172	1.187	0.5959	0.3621	0.4335	1.057
Std. Dev.	0.2888	0.4341	0.09246	0.4521	0.1219	0.2996
Upper Lim.	1.479	1.647	0.6939	1.043	0.5627	1.374
Lower Lim.	0.8662	0.7269	0.4979	0.0003309	0.3043	0.7391

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 1:06 PM View: AIV

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21
11/5/2018						0.637
11/6/2018	0.391 (U)	0.661	1.05	0.913	0.803	
3/26/2019	0.535	1.18	1.57	1.35		0.405
3/27/2019					0.77	
9/9/2019			1.29	1.08	0.3 (U)	
9/10/2019	0.3 (U)	0.516 (U)				0.0889 (U)
4/20/2020	0.693	0.493 (U)				
4/21/2020			0.859	0.888	0.663 (U)	0.271 (U)
8/11/2020		1.48	2.14			
8/12/2020	0.983			1.17		
8/17/2020					0.817	
8/18/2020						-0.0105 (U)
3/9/2021		1.2 (U)	2.27	1.11 (U)		
3/10/2021	0.335 (U)					0.418 (U)
3/16/2021					1.05 (U)	
8/17/2021		0.49 (U)	1.97	2.04	2.01	
8/25/2021	0.314 (U)					0.305 (U)
3/28/2022					0.745 (U)	
3/29/2022	0.273 (U)					
3/30/2022						1.04
4/4/2022			2.17			
4/6/2022		1 (U)		1.18 (U)		
Mean	0.478	0.8775	1.665	1.216	0.8948	0.3943
Std. Dev.	0.2487	0.3871	0.55	0.3644	0.4968	0.3288
Upper Lim.	0.7216	1.288	2.248	1.552	1.383	0.7428
Lower Lim.	0.248	0.4672	1.082	0.8931	0.4359	0.04578

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
11/5/2018				0.0946 (U)		
11/6/2018	0.0751 (U)	1.27	0.566 (U)		1.55	1.72
3/27/2019	0.309 (U)	1.47	0.29 (U)	0.5	1.83	1.56
9/9/2019		1.12				
9/10/2019	0.578					
9/11/2019			0.28 (U)	-0.464 (U)	1.02	1.46
4/20/2020		0.899				
4/21/2020						0.882
4/22/2020	0.218 (U)		0.0983 (U)	0.474 (U)	1.08	
8/11/2020	0.511 (U)		0.767			
8/12/2020				3.18	3.41	2.08
8/17/2020		0.738				
3/10/2021	1.03 (U)					
3/15/2021			0.817 (U)	1.11 (U)	0.771 (U)	
3/16/2021		0.553 (U)				1.71
8/17/2021		1.09				
8/23/2021			0.345 (U)	1.09	1.01 (U)	2.11
8/24/2021	0.693 (U)					
3/28/2022			0.413 (U)	0.682 (U)	1.36	
3/29/2022	0.37 (U)					
4/4/2022						1.13
4/5/2022		0.532 (U)				
Mean	0.473	0.959	0.447	0.8333	1.504	1.582
Std. Dev.	0.3005	0.3382	0.2505	1.078	0.8415	0.4263
Upper Lim.	0.7915	1.317	0.7125	1.976	2.296	2.033
Lower Lim.	0.1545	0.6006	0.1816	-0.3098	0.7576	1.13

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
11/7/2018	1.39	1.51	0.34 (U)	0.82
3/26/2019	0.904	0.841	0.507	1.49
9/10/2019	1.14	0.569 (U)	0.898	1.75
4/21/2020	0.679 (U)	0.549 (U)	1.09	1.31
8/18/2020				1.59
8/19/2020	0.96	1.04	0.6 (U)	
3/9/2021	1.12 (U)	0.545 (U)	1.6	1.16 (U)
8/24/2021	0.645 (U)	0.865 (U)	1.67	1.43
3/29/2022	0.394 (U)	0.575 (U)	0.621 (U)	1.25
Mean	0.904	0.8118	0.9158	1.35
Std. Dev.	0.3206	0.3377	0.5004	0.2859
Upper Lim.	1.244	1.129	1.446	1.653
Lower Lim.	0.5642	0.512	0.3853	1.047

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14
11/5/2018			0.15	0.2	0.15	
11/6/2018	0.04 (J)					
11/7/2018		0.25				0.19
3/26/2019				0.196	0.0775 (J)	
3/27/2019	0.192	0.206	0.104			0.248
9/10/2019	0.179	0.226	0.191	0.26		0.209
9/11/2019					0.118	
4/20/2020					0.0844 (J)	
4/21/2020	0.12			0.198		0.254
4/22/2020		0.224	0.167			
8/11/2020						0.278
8/17/2020	0.115					
8/18/2020		0.203	0.165	0.223	0.108	
3/9/2021						0.263
3/10/2021			0.0749 (J)	0.161		
3/15/2021		0.324			0.0737 (J)	
3/16/2021	0.129					
8/17/2021	0.158					
8/24/2021		0.277				
8/25/2021			0.135	0.188	0.111	0.239
3/29/2022				0.107 (J)		
3/30/2022			<0.125			
4/4/2022	0.124 (D)	0.2785 (D)				0.226 (D)
4/6/2022					<0.125	
Mean	0.1321	0.2486	0.1312	0.1916	0.09814	0.2384
Std. Dev.	0.04699	0.04208	0.04629	0.04456	0.02886	0.02896
Upper Lim.	0.1819	0.2932	0.1802	0.2389	0.1287	0.2691
Lower Lim.	0.08232	0.204	0.08211	0.1444	0.06755	0.2077

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21
11/5/2018						0.22
11/6/2018	0.12	0.24	0.45	0.17	0.07 (J)	
3/26/2019	0.113	0.316	0.573	0.192		0.219
3/27/2019					0.089 (J)	
9/9/2019			0.477	0.157	0.163	
9/10/2019	0.122	0.267				0.194
4/20/2020	0.14	0.245				
4/21/2020			0.565	0.171	0.126	0.173
8/11/2020		0.294	0.515			
8/12/2020	0.147			0.198		
8/17/2020					0.0753 (J)	
8/18/2020						0.18
3/9/2021		0.286	0.628	0.205		
3/10/2021	0.115					0.113
3/16/2021					0.185	
8/17/2021		0.286	0.494	0.212	0.0974 (J)	
8/25/2021	0.167					0.117
3/28/2022					0.105 (J)	
3/29/2022	0.117 (J)					
3/30/2022						<0.125
4/4/2022			0.5855 (D)			
4/6/2022		0.2395 (D)		0.1385 (D)		
Mean	0.1301	0.2717	0.5359	0.1804	0.1138	0.1598
Std. Dev.	0.01929	0.0284	0.06119	0.02549	0.04141	0.05653
Upper Lim.	0.1502	0.3018	0.6008	0.2075	0.1577	0.2197
Lower Lim.	0.1104	0.2416	0.4711	0.1534	0.06995	0.09989

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-6
11/5/2018			<0.125			
11/6/2018	<0.125	0.1		0.08 (J)	0.22	
11/7/2018						0.22
3/26/2019						0.253
3/27/2019	<0.125	0.13	<0.125	<0.125	0.208	
9/9/2019		0.121				
9/10/2019	<0.125					0.227
9/11/2019			0.0518 (J)	<0.125	0.2	
4/20/2020		0.112				
4/21/2020					0.224	0.218
4/22/2020	<0.125		<0.125	<0.125		
8/11/2020	<0.125					
8/12/2020			<0.125	<0.125	0.221	
8/17/2020		0.148				
8/19/2020						0.223
3/9/2021						0.17
3/10/2021	0.104					
3/15/2021			<0.125	<0.125		
3/16/2021		0.23			0.282	
8/17/2021		0.184				
8/23/2021			<0.125	<0.125	0.322	
8/24/2021	0.0914 (J)					0.161
3/28/2022			<0.125	<0.125		
3/29/2022	0.0724 (J)					0.193
4/4/2022					0.216	
4/5/2022		0.146 (D)				
Mean	0.07254	0.1464	0.06116	0.06469	0.2366	0.2081
Std. Dev.	0.01625	0.04252	0.003783	0.006187	0.04245	0.03101
Upper Lim.	0.104	0.1914	0.0625	0.08	0.322	0.241
Lower Lim.	0.0625	0.1013	0.0518	0.0625	0.2	0.1753

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
11/7/2018	0.08 (J)	0.11	0.2
3/26/2019	0.106	0.162	0.223
9/10/2019	0.086 (J)	0.113	0.178
4/21/2020	0.0951 (J)	0.114	0.181
8/18/2020			0.177
8/19/2020	0.103	0.116	
3/9/2021	0.0949 (J)	0.109	0.147
8/24/2021	0.1	0.141	0.164
3/29/2022	0.104 (J)	0.108 (J)	<0.125
Mean	0.09613	0.1216	0.1666
Std. Dev.	0.009157	0.01946	0.04776
Upper Lim.	0.1058	0.162	0.2172
Lower Lim.	0.08642	0.108	0.1159

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
11/5/2018					<0.0002	
11/6/2018	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
3/26/2019	<0.0002					
3/27/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/9/2019		<0.0002				
9/10/2019	<0.0002		<0.0002			
9/11/2019				<0.0002	<0.0002	<0.0002
4/20/2020	<0.0002					
4/21/2020		<0.0002				
4/22/2020			<0.0002	<0.0002	<0.0002	<0.0002
8/11/2020	<0.0002		<0.0002	<0.0002		
8/12/2020					<0.0002	<0.0002
8/17/2020		<0.0002				
3/9/2021	0.000109 (J)					
3/10/2021			8.84E-05 (J)			
3/15/2021				<0.0002	0.000121 (J)	<0.0002
3/16/2021		0.000736				
8/17/2021	0.00011 (J)	0.00059				
8/23/2021				<0.0002	0.00015 (J)	<0.0002
8/24/2021			<0.0002			
3/28/2022		0.00066		0.00015 (J)	<0.0002	0.00015 (J)
3/29/2022			<0.0002			
4/6/2022	9E-05 (J)					
Mean	0.0001636	0.0003732	0.000186	0.0001937	0.0001839	0.0001937
Std. Dev.	5.056E-05	0.0002423	3.946E-05	1.768E-05	3.085E-05	1.768E-05
Upper Lim.	0.0002	0.000736	0.0002	0.0002	0.0002	0.0002
Lower Lim.	9E-05	0.0002	8.84E-05	0.00015	0.000121	0.00015

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9
11/7/2018	<0.0002
3/26/2019	<0.0002
9/10/2019	<0.0002
4/21/2020	<0.0002
8/18/2020	<0.0002
3/9/2021	7.84E-05 (J)
8/24/2021	<0.0002
3/29/2022	<0.0002
Mean	0.0001848
Std. Dev.	4.299E-05
Upper Lim.	0.0002
Lower Lim.	7.84E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15
11/5/2018		0.0641	0.0912	0.0914		
11/6/2018						0.547
11/7/2018	0.11				0.604	
3/26/2019			0.0532	0.123		0.57
3/27/2019	0.115	0.119			1.11	
9/10/2019	0.112	0.124	0.0598		0.765	0.6
9/11/2019				0.246		
4/20/2020				0.201		0.604
4/21/2020			0.166		0.672	
4/22/2020	0.123	0.126				
8/11/2020					0.712	
8/12/2020						0.594
8/18/2020	0.124	0.109	0.0892	0.42		
3/9/2021					0.791	
3/10/2021		0.0826	0.125			0.63
3/15/2021	0.155			0.308		
8/24/2021	0.198					
8/25/2021		0.132	0.117	0.5	0.985	0.622
3/29/2022			0.13			0.534
3/30/2022		0.0615				
4/4/2022	0.329				0.607	
4/6/2022				0.584		
Mean	0.1583	0.1023	0.1039	0.3092	0.7808	0.5876
Std. Dev.	0.07512	0.02866	0.03789	0.1781	0.1807	0.03438
Upper Lim.	0.329	0.1327	0.1441	0.4979	0.9722	0.6241
Lower Lim.	0.11	0.0719	0.06377	0.1204	0.5893	0.5512

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-21	GC-AP-MW-5	GC-AP-MW-6
11/5/2018				0.0902		
11/6/2018	0.54	0.583	0.369		0.116	
11/7/2018						0.0141 (J)
3/26/2019	0.558	0.595	0.378	0.0531		0.0192 (J)
3/27/2019					0.0988	
9/9/2019		0.571	0.408			
9/10/2019	0.581			0.0862		0.0267
9/11/2019					0.117	
4/20/2020	0.62					
4/21/2020		0.629	0.386	0.0782	0.13	0.0518
8/11/2020	0.599	0.552				
8/12/2020			0.326		0.132	
8/18/2020				0.0718		
8/19/2020						0.0197 (J)
3/9/2021	0.692	0.864	0.364			0.013 (J)
3/10/2021				0.146		
3/16/2021					0.149	
8/17/2021	0.647	0.585	0.335			
8/23/2021					0.116	
8/24/2021						0.00951 (J)
8/25/2021				0.0872		
3/29/2022						<0.02
3/30/2022				0.082		
4/4/2022		0.647			0.102	
4/6/2022	0.638		0.312			
Mean	0.6094	0.6283	0.3598	0.08684	0.1201	0.0205
Std. Dev.	0.05006	0.1	0.0327	0.02666	0.01647	0.01388
Upper Lim.	0.6624	0.864	0.3944	0.1137	0.1376	0.03337
Lower Lim.	0.5563	0.552	0.3251	0.06087	0.1026	0.008532

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
11/7/2018	0.0371	0.0616
3/26/2019	0.0537	0.0931
9/10/2019	0.0928	0.128
4/21/2020	0.0582	0.0693
8/18/2020		0.0591
8/19/2020	0.0511	
3/9/2021	0.0249	0.0417
8/24/2021	0.0155 (J)	0.0383
3/29/2022	0.00828 (J)	0.0126 (J)
Mean	0.0427	0.06296
Std. Dev.	0.02729	0.03544
Upper Lim.	0.07163	0.1005
Lower Lim.	0.01377	0.0254

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14
11/5/2018			0.00944 (J)	0.0906	0.044	
11/6/2018	<0.0002					
11/7/2018		0.00748 (J)				0.0155
3/26/2019				0.11	0.0262	
3/27/2019	<0.0002	0.00778 (J)	0.0151			0.0167
9/10/2019	<0.0002	0.00757 (J)	0.0205	0.134		0.0125
9/11/2019					0.0226	
4/20/2020					0.0924	
4/21/2020	<0.0002			0.0947		0.0141
4/22/2020		0.00747 (J)	0.0147			
8/11/2020						0.0117
8/17/2020	<0.0002					
8/18/2020		0.00808 (J)	0.0146	0.0938	0.145	
3/9/2021						0.0205
3/10/2021			0.00701	0.0611		
3/15/2021		0.0103			0.0146	
3/16/2021	0.000117 (J)					
8/17/2021	<0.0002					
8/24/2021		0.0132				
8/25/2021			0.0106	0.0547	0.0319	0.0127
3/29/2022				0.0514		
3/30/2022			0.00425			
4/4/2022	<0.0002	0.0117				0.0166
4/6/2022					0.0201	
Mean	0.0001896	0.009198	0.01203	0.08629	0.0496	0.01504
Std. Dev.	2.934E-05	0.002247	0.005201	0.02887	0.04575	0.002908
Upper Lim.	0.0002	0.0132	0.01754	0.1169	0.08885	0.01812
Lower Lim.	0.000117	0.00747	0.006512	0.05569	0.01377	0.01196

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25
11/5/2018					0.0548	
11/6/2018	<0.0002	0.0418	<0.0002	<0.0002		<0.0002
3/26/2019	<0.0002	0.062	<0.0002		0.071	
3/27/2019				<0.0002		<0.0002
9/9/2019		0.0681	<0.0002	<0.0002		
9/10/2019	<0.0002				0.0609	<0.0002
4/20/2020	<0.0002					
4/21/2020		0.0694	<0.0002	<0.0002	0.0562	
4/22/2020						<0.0002
8/11/2020	<0.0002	0.0506				<0.0002
8/12/2020			<0.0002			
8/17/2020				<0.0002		
8/18/2020					0.0505	
3/9/2021	0.000113 (J)	0.067	0.000362			
3/10/2021					0.0123	8.43E-05 (J)
3/16/2021				8.04E-05 (J)		
8/17/2021	0.00014 (J)	0.0468	0.0004	0.00017 (J)		
8/24/2021						<0.0002
8/25/2021					0.00789	
3/28/2022				<0.0002		
3/29/2022						<0.0002
3/30/2022					0.00682	
4/4/2022		0.054				
4/6/2022	0.00015 (J)		0.00032			
Mean	0.0001754	0.05746	0.0002602	0.0001813	0.04005	0.0001855
Std. Dev.	3.549E-05	0.01059	8.586E-05	4.21E-05	0.02643	4.091E-05
Upper Lim.	0.0002	0.06869	0.0004	0.0002	0.06508	0.0002
Lower Lim.	0.000113	0.04624	0.0002	8.04E-05	0.01395	8.43E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8
11/6/2018	<0.0002	0.00318 (J)			
11/7/2018			<0.0002	<0.0002	<0.0002
3/26/2019			<0.0002	<0.0002	<0.0002
3/27/2019	<0.0002	0.00284 (J)			
9/10/2019			<0.0002	<0.0002	<0.0002
9/11/2019	<0.0002	0.00328 (J)			
4/21/2020		0.00255 (J)	<0.0002	<0.0002	<0.0002
4/22/2020	<0.0002				
8/11/2020	<0.0002				
8/12/2020		0.00292 (J)			
8/19/2020			<0.0002	<0.0002	<0.0002
3/9/2021			0.0024	0.000156 (J)	8.12E-05 (J)
3/15/2021	7.41E-05 (J)				
3/16/2021		0.00358			
8/23/2021	<0.0002	0.0031			
8/24/2021			0.00211	0.00013 (J)	<0.0002
3/28/2022	<0.0002				
3/29/2022			0.00142	0.00016 (J)	<0.0002
4/4/2022		0.00354			
Mean	0.0001843	0.003124	0.0008662	0.0001807	0.0001851
Std. Dev.	4.451E-05	0.0003507	0.0009581	2.796E-05	4.2E-05
Upper Lim.	0.0002	0.003495	0.0024	0.0002	0.0002
Lower Lim.	7.41E-05	0.002752	0.0002	0.00013	8.12E-05

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-2	GC-AP-MW-3	GC-AP-MW-32
11/5/2018		<0.00102	<0.00102			<0.00102
11/6/2018	<0.00102			<0.00102	<0.00102	
3/26/2019		<0.00102	0.0239			
3/27/2019	<0.00102			<0.00102	<0.00102	<0.00102
9/9/2019				<0.00102	<0.00102	
9/10/2019	<0.00102	<0.00102				
9/11/2019			<0.00102			<0.00102
4/20/2020			0.0125		<0.00102	
4/21/2020	<0.00102	<0.00102		<0.00102		
4/22/2020						<0.00102
8/12/2020						<0.00102
8/17/2020	<0.00102			<0.00102	<0.00102	
8/18/2020		<0.00102	0.00416 (J)			
3/10/2021		<0.00102				
3/15/2021			0.0175			<0.00102
3/16/2021	0.00163			<0.00102	0.000959 (J)	
8/17/2021	0.00209			0.00054 (J)	0.00097 (J)	
8/23/2021						0.00059 (J)
8/25/2021		0.00281	0.00826			
3/28/2022				0.00058 (J)		<0.00102
3/29/2022		<0.00102				
4/4/2022	0.00221					
4/5/2022					0.00074 (J)	
4/6/2022			0.111 (o)			
5/17/2022			0.0452 (R)			
Mean	0.001379	0.001244	0.01419	0.000905	0.0009711	0.0009662
Std. Dev.	0.0005215	0.0006329	0.01489	0.0002132	9.674E-05	0.000152
Upper Lim.	0.00221	0.00281	0.02915	0.00102	0.00102	0.00102
Lower Lim.	0.00102	0.00102	0.001838	0.00054	0.00074	0.00059

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-33

11/6/2018	<0.00102
3/27/2019	<0.00102
9/11/2019	<0.00102
4/22/2020	<0.00102
8/12/2020	<0.00102
3/15/2021	<0.00102
8/23/2021	<0.00102
3/28/2022	0.00071 (J)
Mean	0.0009812
Std. Dev.	0.0001096
Upper Lim.	0.00102
Lower Lim.	0.00071

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-11	GC-AP-MW-13	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-2
11/5/2018		<0.0002	0.000623 (J)			
11/6/2018	<0.0002			<0.0002	0.000354 (J)	<0.0002
3/26/2019			0.000215 (J)	<0.0002	0.00041 (J)	
3/27/2019	<0.0002	<0.0002				<0.0002
9/9/2019						<0.0002
9/10/2019	<0.0002	<0.0002		<0.0002	0.000396 (J)	
9/11/2019			0.00214			
4/20/2020			0.000433 (J)	<0.0002	0.00032 (J)	
4/21/2020	<0.0002					<0.0002
4/22/2020		<0.0002				
8/11/2020					0.000329 (J)	
8/12/2020				<0.0002		
8/17/2020	<0.0002					<0.0002
8/18/2020		<0.0002	0.00114			
3/9/2021					0.000369	
3/10/2021		8.7E-05 (J)		8.78E-05 (J)		
3/15/2021			0.000506			
3/16/2021	0.000107 (J)					0.000101 (J)
8/17/2021	0.00012 (J)				0.00036	0.00013 (J)
8/25/2021		9E-05 (J)	0.00124	<0.0002		
3/28/2022						0.00015 (J)
3/29/2022				0.00012 (J)		
3/30/2022		7E-05 (J)				
4/4/2022	0.00016 (J)					
4/6/2022			0.00169		0.00035	
Mean	0.0001734	0.0001559	0.0009984	0.000176	0.000361	0.0001726
Std. Dev.	3.96E-05	6.117E-05	0.0006737	4.531E-05	3.063E-05	4.001E-05
Upper Lim.	0.0002	0.0002	0.001712	0.0002	0.0003935	0.0002
Lower Lim.	0.000107	7E-05	0.0002843	8.78E-05	0.0003285	0.000101

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 6/10/2022 1:06 PM View: AIV
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-21

11/5/2018	<0.0002
3/26/2019	<0.0002
9/10/2019	<0.0002
4/21/2020	<0.0002
8/18/2020	<0.0002
3/10/2021	0.000106 (J)
8/25/2021	<0.0002
3/30/2022	0.00011 (J)
Mean	0.000177
Std. Dev.	4.26E-05
Upper Lim.	0.0002
Lower Lim.	0.000106

Appendix F



April 2022
Plant Greene County



Laboratory Treatability Study Work Plan

Prepared for Alabama Power Company

April 2022
Plant Greene County

Laboratory Treatability Study Work Plan

Prepared for
Alabama Power Company
600 18th Street North
Birmingham, Alabama 35203

Prepared by
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Table 2	Constituents and Analytical Methods
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Figure 2	Treatability Study Schedule

ABBREVIATIONS

µm	micrometers
ADEM	Alabama Department of Environmental Management
APC	Alabama Power Company
CCR	coal combustion residuals
COI	constituent of interest
DO	dissolved oxygen
EGL	Anchor QEA Environmental Geochemistry Laboratory
MNA	monitored natural attenuation
ORP	oxidation-reduction potential
Plant Greene County	Greene County Electric Generating Plant
SC	specific conductivity
SCS	Southern Company Services
Site	Plant Greene County Ash Pond
SSE	selective sequential extraction
USEPA	U.S. Environmental Protection Agency
ZVI	zero-valent iron

1 Introduction

This work plan describes laboratory treatability studies for arsenic, cobalt, and lithium in groundwater at the Greene County Electric Generating Plant (Plant Greene County) Ash Pond (Site), located in Greene County, Alabama. Plant Greene County is owned and operated by Alabama Power Company (APC). This work builds on work previously performed for the Site by Anchor QEA.

As of April 15, 2019, the Site ceased receipt of all coal combustion residuals (CCR) and non-CCR waste streams. APC has been monitoring groundwater at the Site in accordance with the U.S. Environmental Protection Agency (USEPA) CCR Rule and the Alabama Department of Environmental Management (ADEM) rule since 2016. Constituents of interest (COIs) for the Site include arsenic, cobalt, and lithium.

In 2020 and 2021, corrective measures for groundwater were evaluated for the Site. In situ groundwater treatment via injection was selected as one viable option, particularly for areas with higher concentrations of COIs in groundwater (hot spots). Therefore, pilot tests at four locations were proposed in the *Greene County Groundwater Remedy Selection Report* (Anchor QEA 2021a). The necessary steps to implement an injection treatment pilot test include laboratory treatability studies, selection of the most effective treatment reagent(s), and preparation of an underground injection control application.

The treatability studies proposed herein will evaluate reagent selection, dosing, and injection sequencing for in situ groundwater treatment as described in the following subsections. Background information, including Site-specific findings from monitored natural attenuation (MNA) studies and reagents to be tested in the treatability studies, is summarized in Section 2. Initial characterization of groundwater and aquifer solids (i.e., soil) is discussed in Section 3 followed by an overview of the treatability study approach including batch testing (Section 4), column studies (Section 5), and selective sequential extraction (SSE; Section 6). Analysis of the treatability study data and reporting are discussed in Section 7 and the project schedule is presented in Section 8.

2 Selection of Reagents

Selection and formulation of reagent solutions that can be injected to sequester Site-specific COIs will be based on Site-specific soil and groundwater geochemistry, previous Site work, and experience from successful treatability studies performed by Anchor QEA for the same COIs at other sites. The MNA demonstration (Anchor QEA 2021b) documented key geochemical attenuation mechanisms occurring at the Site, including:

- Sorption on and/or co-precipitation with iron oxides for arsenic and cobalt
- Cation exchange on oxides and clay minerals for lithium
- Possibly precipitation of barium arsenate for arsenic

Iron oxides are strong sorbents for many metals and metalloids including arsenic and cobalt, and Eh-pH conditions in the subsurface at the Site are generally favorable for formation of iron oxides. Lithium has an affinity for manganese and iron-manganese oxides. Therefore, the treatability studies are focused on reagents (or mixtures) with the potential to increase the abundance and the stability of iron and/or manganese oxides and hydroxides in the subsurface. Barium chloride was added to the reagent list, as geochemical modeling predicted that barium arsenate could precipitate from groundwater if sufficient barium were present in the system. Based on Site conditions and previous treatability studies for other coal combustion residuals sites (e.g., EPRI 2021), the following reagents were selected for treatability testing:

1. Ferrous sulfate
2. Ferric chloride
3. CleanER (injectable zero-valent iron [ZVI])
4. Ferroblack (injectable iron sulfide)
5. Permanganate
6. Ferrous sulfate with permanganate
7. Ferric chloride with permanganate and manganese chloride
8. Barium chloride

These eight potential treatments (or mixtures thereof) will be screened and evaluated through batch testing as described in Section 4. The most promising reagents (or mixtures) will be selected for column studies (see Section 5).

3 Sampling and Initial Characterization

Aquifer solids (i.e., soil) and groundwater will be collected from the Site for treatability testing to be conducted at the Anchor QEA Environmental Geochemistry Laboratory (EGL). Site aquifer solids (soil) and groundwater will be collected in accordance with the *Aquifer Solids and Groundwater Sampling Scope of Work for Treatability Studies* (Anchor QEA 2021c) memorandum.

3.1 Groundwater

Groundwater samples will be collected by Alabama Power with support from Anchor QEA from wells GC-AP-MW-1, GC-AP-MW-17, GC-AP-MW-14, GC-AP-MW-11, and GC-AP-MW-5. Five gallons of Site groundwater from each selected well will be required to complete the batch treatability tests (described in Section 4). An additional 10 gallons of Site groundwater from each selected well will be required to complete the column testing (described in Section 5) and will be collected after the batch testing is completed. As detailed in the sampling plan, the groundwater provided to the EGL will be collected, transported, and handled to minimize exposure to oxygen. Groundwater samples will be field-filtered with a 0.45-micron inline filter.

Groundwater samples will be analyzed for COIs (arsenic, cobalt, and lithium), as well as other Appendix III/IV parameters, and additional MNA parameters by Alabama Power (Table 1). Supplemental analyses will be performed for COIs and select parameters including pH, oxidation-reduction potential [ORP], dissolved oxygen [DO], total and dissolved iron and manganese on as-received samples prior to commencing treatability testing. Groundwater characterization data will guide the treatability study design and the evaluation of results.

3.2 Aquifer Solids

Aquifer solids will be collected from five pilot test borings (GC-AP-PT-1, -2, -3, -4, and -5) as described in the *Aquifer Solids and Groundwater Sampling Scope of Work for Treatability Studies* (Anchor QEA 2021c) memorandum and as appear in Figure 1. Initial characterization of aquifer solids (soil) will include the analyses listed in Table 2.

3.3 Reagents

Prior to initiating the column studies (described in Section 5), a sample of each of the selected reagents will be analyzed for Appendix III/ IV parameters to characterize impurity levels of these constituents.

4 Batch Tests

Screening batch tests will be performed to assess the effectiveness of injectable reagents (see list of reagents in Section 2) in reducing COI concentrations in Site groundwater and groundwater-soil slurries.

The approach for screening batch tests is as follows¹:

- Step 1: Test jars will be set up with groundwater or groundwater/aquifer solid slurries.
- Step 2: Reagents or reagent mixtures will be added to the test jars at a pre-determined dose based on groundwater chemistry and prior experience. Test jars will also include controls with no reagents added. Test jars will be sealed and placed on a shaker table for 7 days.
- Step 3: Samples of the treated groundwater solutions will be collected and analyzed for dissolved arsenic, cobalt, and lithium (per the analytical laboratory methods specified in Table 1). pH, ORP, and specific conductivity (SC) will be measured in the EGL.
- Step 4: The solids from each batch reactor will be recovered and archived for possible future analysis.

Arsenic, cobalt, and lithium removal efficiency will be evaluated by comparing the initial concentrations in the groundwater samples and controls to the concentrations in the treated groundwater solutions.

Following the initial screening batch tests, additional focused batch testing may be conducted to optimize COI removal. For example, these optimization batch tests may involve adjusting the dose of a reagent or adjusting the pH to increase COI removal. Following completion of the batch testing, up to two reagents (or reagent mixtures) that achieve successful removal of arsenic, cobalt, and lithium will be selected for column studies.

¹ Batch tests will be conducted in accordance with modified versions of ASTM International Methods D2035-19 (Practice for Coagulation-Flocculation Jar Test of Water) and D4646-03 (Test Method for 24-h Batch-Type Measurement of Contaminant Sorption by Soils and Sediments).

5 Column Studies

Column studies will be conducted to simulate injection applications of the selected reagents (or reagent mixtures). The results of the column studies will be used to confirm arsenic, cobalt, and lithium removal efficiency and determine uptake capacity of injection-treated aquifer soil to support pilot test design. Results from column studies will also be used to confirm that treatments will not inadvertently increase concentrations of other constituents above groundwater quality standards, for example, due to release from the aquifer matrix.

The approach for column studies is as follows (Westerhoff et al. 2005):

- Step 1: Aquifer solids will be treated with the selected reagent or reagent mixture by treating a pre-weighed homogenized mass of aquifer solids with a predetermined amount of the selected reagent(s; based on the batch test results) in solution. The soil-reagent mixture will be placed on a shaker table and allowed to react for three days.
- Step 2: The treated aquifer solids will be packed into 4.2-centimeter-diameter by 22-centimeter-length polycarbonate column assemblies. Site groundwater containing COIs will be introduced into column influents at a constant flow rate.
- Step 3: Columns will be operated for a total of 4 weeks or approximately 100 pore volumes.
- Step 4: Column influent and effluent solutions will be sampled periodically and pH, ORP, and SC will be measured. The cumulative flow volume will also be recorded at the time of sampling and used to calculate the total number of pore volumes treated.
- Step 5: Samples will be filtered (0.45 micrometers [μm]) and analyzed for dissolved arsenic, cobalt, lithium, and treatment reagent constituent concentrations. Select Appendix III and IV constituents (Table 1) may also be analyzed based on soil concentrations.
- Step 6: Following completion of this phase of the column test, the column influent will be switched to background groundwater to assess the stability of the treatment. The column will continue to run at a constant flow rate for approximately 10 pore volumes. Column influents and effluents will be sampled at approximately 5 and 10 pore volumes of flow. Samples will be analyzed for dissolved COIs, constituents of the treatment reagents used (e.g., iron, manganese, barium, chloride, sulfate), and select Appendix III/ IV constituents.

Arsenic, cobalt, and lithium removal efficiency (and mass uptake from groundwater) will be evaluated by comparing the respective concentrations in the column influent to the concentrations in the effluent. COI removal capacity per unit reagent dose will be estimated from column breakthrough curves and mass balance calculations. The removal capacity will provide data to support design of pilot tests, including injection volumes and reagent mass. At the end of the column tests, column solids will be recovered for SSE to further document COI sequestration strength by the reagent-treated soil matrix and to assess the stability of the treatment.

6 Selective Sequential Extraction of Treated Soil

Following completion of the column tests, the column media will be recovered and tested using a five-step SSE procedure. The extraction procedure is designed to fractionate the COIs in a solid sample by subjecting the sample to a sequence of chemical treatments that target specific chemical forms. Concentrations and relative proportions of arsenic, cobalt, and lithium present in the operationally defined fractions shown in Table 3 will be determined on a total sample dry weight basis. Sequential extraction will be performed in accordance with the EGL standard operating procedure.

SSE will provide information on the stability of COIs removed by precipitates formed in situ via reagent injection under conditions representative of Site application. These data will support a more thorough understanding of the permanence (stability) of COI removal by the treatment.

7 Data Analysis and Reporting

Anchor QEA will analyze the data from the batch tests, column tests, and SSE results and make recommendations regarding the reagents or reagents mixtures to be used for pilot testing at the Site. Results from the column tests will also be used to support pilot test design. The recommended reagent or mix will be tailored to the COIs present and geochemical conditions at each pilot location.

Anchor QEA will meet with the client to review the results of the batch tests and discuss the recommended reagent(s) prior to initiating the column studies. After the column studies and SSE are complete, Anchor QEA will present findings and recommendations to the client in advance of preparing the draft treatability study report. This report will document the treatability studies, present the data obtained through these studies, and discuss recommendations for pilot studies of the most promising treatment(s).

8 Project Schedule

Anchor QEA anticipates that the batch studies will be completed within 4 weeks of the receipt of Site groundwater. Column studies and SSE can be completed within 2 months of the review of batch test data. The anticipated schedule is shown in Figure 2.

9 References

Anchor QEA, 2021a. *Greene County Groundwater Remedy Selection Report*. December 2021.

Anchor QEA, 2021b. *Monitored Natural Attenuation Demonstration. Plant Greene County*. Prepared for Alabama Power Company. September 2021.

Anchor QEA, 2021c. Memorandum to: Greg Dyer, Southern Company Services, Inc. Regarding: Aquifer Solids and Groundwater Sampling Scope of Work for Treatability Studies. December 23, 2021.

Westerhoff, P., D. Highfield, M. Badruzzaman, and Y. Yoon, 2005. "Rapid Small-Scale Column Tests for Arsenate Removal in Iron Oxide Packed Bed Columns." *Journal of Environmental Engineering* 131(2):262–271.

Tables

Table 1
Groundwater Characterization Parameters and
Laboratory Analytical Methods

Parameter	Analytical Method	Detection Limit
Appendix III Parameters		
Boron	EPA 200.8/6020	10.0 µg/L
Calcium	EPA 200.8/6020	600 µg/L
Chloride	300.0/9056A	1.00 mg/L
Fluoride	SM 4500 F_C	0.100 mg/L
pH	None	--
Sulfate	300.0/9056A	1.00 mg/L
Total dissolved solids	SM 2540C	5.00 mg/L
Appendix IV Parameters		
Antimony	EPA 200.8/6020	1.00 µg/L
Arsenic	EPA 200.8/6020	1.00 µg/L
Barium	EPA 200.8/6020	2.00 µg/L
Beryllium	EPA 200.8/6020	0.200 µg/L
Cadmium	EPA 200.8/6020	0.200 µg/L
Chromium	EPA 200.8/6020	2.00 µg/L
Cobalt	EPA 200.8/6020	1.00 µg/L
Fluoride	SM 4500 F_C	0.100 mg/L
Lead	EPA 200.8/6020	0.200 µg/L
Lithium	EPA 200.8/6020	5.00 µg/L
Mercury	EPA 1631	0.000100 mg/L
Molybdenum	EPA 200.8/6020	1.00 µg/L
Selenium	EPA 200.8/6020	1.00 µg/L
Thallium	EPA 200.8/6020	0.200 µg/L
MNA-Specific Parameters		
Alkalinity (total as CaCO ₃)	SM 2320 B	20.0 mg/L
Aluminum (total and dissolved)	EPA 200.8/6020	50.0 µg/L
Bicarbonate alkalinity (calculated)	SM 4500CO2 D	20.0 mg/L
Carbonate alkalinity (calculated)	SM 4500CO2 D	20.0 mg/L
Iron (total and dissolved)	EPA 200.8/6020	50.0 µg/L
Magnesium (dissolved)	EPA 200.8/6020	150.0 µg/L
Manganese (total and dissolved)	EPA 200.8/6020	1.00 µg/L
Nitrogen nitrate/nitrite	EPA 353.2	0.0200 mg/L
Potassium (dissolved)	EPA 200.8/6020	100 µg/L
Silica (dissolved)	SM 4500-SiO2	0.500 mg/L
Sodium (dissolved)	EPA 200.8/6020	100.0 µg/L
Sulfide	SM 4500-S2	Subcontracted
Total organic carbon	SM 5310 C	1.00 mg/L

Notes:

The following field parameters will be measured for each monitoring well sample: depth to water, total depth, pH, temperature, ORP, DO, turbidity, and SC.

µg/L: micrograms per liter

ORP: oxidation reduction potential

DO: dissolved oxygen

SC: specific conductance

EPA: U.S. Environmental Protection Agency

SM: Standard Method

mg/L: milligrams per liter

Table 2
Constituents and Analytical Methods

Constituent	Analytical Method	Detection Limit
Arsenic	EPA Method 6020B	0.5 mg/kg
Cobalt	EPA Method 6020B	0.5 mg/kg
Lithium	EPA Method 6020B	2.5 mg/kg
Iron	EPA Method 6020B	1 mg/kg
Manganese	EPA Method 6020B	1 mg/kg
Cation Exchange Capacity	EGL SOP/6020B	--
Extractable Iron, Aluminum, and Manganese Oxides	EGL SOP/6020B	1 mg/kg
Sulfide	SM4500-S2	1 mg/kg
Total Organic Carbon	EPA Method 9060A	200 mg/kg
Appendix IV Parameters		
Antimony	EPA 200.8/6020	0.5 mg/kg
Barium	EPA 200.8/6020	0.5 mg/kg
Beryllium	EPA 200.8/6020	0.5 mg/kg
Cadmium	EPA 200.8/6020	0.5 mg/kg
Chromium	EPA 200.8/6020	0.5 mg/kg
Fluoride	SM 4500 F_C	1 mg/kg
Lead	EPA 200.8/6020	0.5 mg/kg
Mercury	EPA 1631	0.5 mg/kg
Molybdenum	EPA 200.8/6020	0.5 mg/kg
Selenium	EPA 200.8/6020	0.5 mg/kg
Thallium	EPA 200.8/6020	0.5 mg/kg

Notes:

Solids will be digested by EPA Method 3050B prior to analysis

mg/kg: milligrams per kilogram

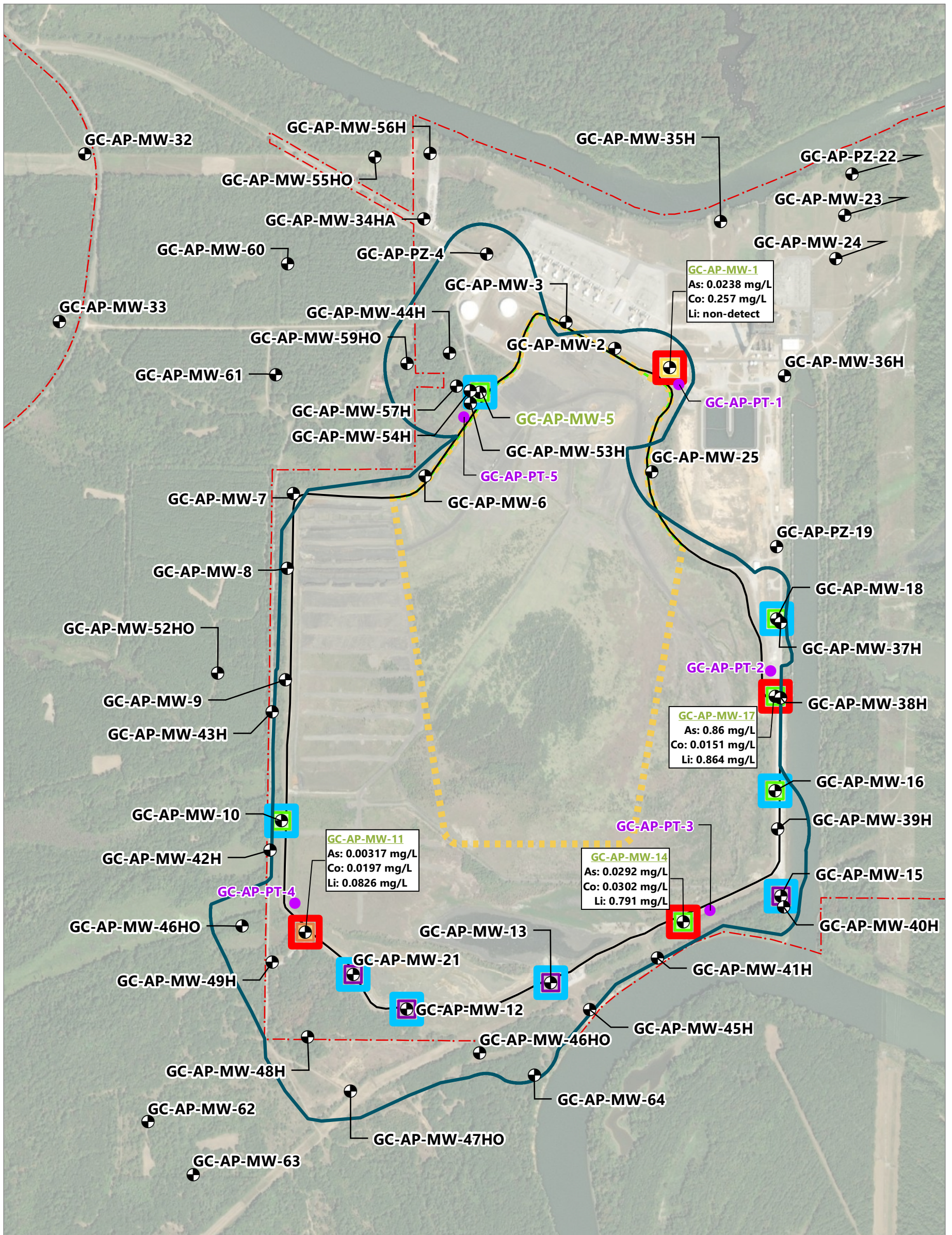
SOP: standard operating procedure

SM: standard method

Table 3
Sequential Extraction Procedure

Fraction	Name	Targeted COI Phase	Extraction Fluid
F1	Soluble	Dissolved and loosely bound	Magnesium chloride
F2	Exchangeable	Clay mineral exchange sites and weakly bound to oxides	Ammonium phosphate
F3	Reducible	Amorphous iron oxide bound	Hydroxylamine hydrochloride
F4	Strong Acid/Oxidizable	Crystalline oxides, sulfides and/or organic matter bound	Nitric acid
F5	Residual	Silicates and other insoluble phases	Aqua regia

Figures



LEGEND:

- Property Boundary
- Greene County Ash Pond Boundary
- As-Built Barrier Wall Alignment
- Approximate Barrier Wall/ Post-Closure Limits of CCR
- Monitoring Well
- Maximum Extent of GWPS Exceedances for Arsenic, Lithium, and Cobalt
- Lithium SSLs
- Arsenic + Cobalt SSLs
- Arsenic + Lithium SSLs
- Cobalt + Lithium SSLs
- Phase 1: Pilot Injection Area
- Phase 2: Injection Area if Needed
- Proposed Approximate Location of Pilot Test Boring

NOTES:

As: arsenic
 CCR: coal combustion residuals
 Co: cobalt
 GWPS: groundwater protection standard
 Li: lithium
 mg/L: milligrams per liter
 SSL: statistically significant level

Groundwater concentrations are from March 2021 sampling event.



Task	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	
	4/11/22	4/18/22	4/25/22	5/2/22	5/9/22	5/16/22	5/23/22	5/30/22	6/6/22	6/13/22	6/20/22	6/27/22	7/4/22	7/11/22	7/18/22	7/25/22	8/1/22	8/8/22	8/15/22	8/22/22	8/29/22	9/5/22	9/12/22	9/19/22	9/26/22	10/3/22	10/10/22	10/17/22	
1: Initial Characterization																													
Groundwater Characterization																													
Analytical TAT																													
Soil Characterization																													
Analytical TAT																													
2: Batch Treatability Tests																													
Batch Tests																													
Analytical TAT																													
Data Processing & Analysis																													
2a: Optimization Batch Tests																													
Batch Tests																													
Analytical TAT																													
Data Processing & Analysis																													
3: Column Tests																													
Column Testing																													
Analytical TAT																													
Data Processing & Analysis																													
4: Sequential Extraction																													
SSE																													
Analytical TAT																													
5: Reporting																													
Presentation																													
Draft Report																													
Client Review																													
Final Report																													

Note:
TAT: turnaround time

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Figure 2
Treatability Study Schedule
Laboratory Treatability Study Work Plan
Plant Greene County