2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

ALABAMA POWER COMPANY
PLANT GREENE COUNTY
ASH POND

January 31, 2021

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering

Alabama Power

CERTIFICATION STATEMENT

This *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) and ADEM Admin. Code Ch. 335-13-15 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.

1/31/2021

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1/31/2021

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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) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2020 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2020 semi-annual assessment groundwater monitoring activities at the Plant Greene County Ash Pond and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). 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).

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 (SSI) 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 (SSL) 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 ADEM Administrative Order No.18-097-GW. The ACM was subsequently submitted to ADEM and posted to the site's CCR compliance web site.

The following summarizes activities for 2020 groundwater monitoring activities at the site:

- Submitted the Semi-Annual Progress Report for Groundwater Delineation Activities on March 30, 2020.
- Submitted the revised Groundwater Monitoring Plan on April 15, 2020, responded to ADEM comments and resubmitted the Groundwater Monitoring Plan on August 24, 2020.
- Submitted the Semi-Annual Remedy Selection and Design Progress Report on June 8, 2020.
- Completed the installation, development, and sampling of Phase II delineation wells to further characterize spatial extent of potential impacts to groundwater from the CCR Unit in July 2020.
- Submitted 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report on July 31, 2020.
- Submitted Semi-Annual Progress and Groundwater Delineation Report on September 30, 2020.

- Continued the evaluation of monitored natural attenuation (MNA) and geochemical manipulation as potential groundwater remediation technologies for the Site as described in the Semi-Annual Remedy Selection and Design Progress Reports submitted in June and December 2020 in accordance with § 257.97(a) and ADEM Admin. Code r. 335-13-15-.06(8)(a).
- Submitted the Semi-Annual Remedy Selection and Design Progress Report on December 12, 2020.
- 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 Alabama Power Company (APC) is evaluating potential groundwater remedies identified in the ACM report submitted to ADEM in June 2019. The following monitoring-related activities are planned for the CCR unit:

- Collect additional data to further evaluate remedies selected as feasible for the remediation of arsenic, cobalt, and lithium as described in the ACM.
- Continue to compare site-specific corrective actions to the evaluation criteria in the CCR Rule, with emphasis on deficiencies that could eliminate a corrective action from further consideration.
- Continue to determine how corrective actions could be integrated with pond closure, such as dewatering and associated water treatment systems.
- Develop plans for additional Site investigations and associated laboratory work to determine MNA capacity, rates, and stability; and plans for laboratory treatability and/or field pilot tests to determine the effectiveness of geochemical manipulation as needed.
- Collect additional soil samples and perform associated laboratory work to determine MNA capacity, rates, and stability.
- Perform laboratory treatability studies and implement field pilot tests as needed.
- Prepare a Remedy Selection Report.
- Develop a Corrective Action Groundwater Monitoring Program.
- Submit the next Semi-Annual Progress Report by March 30, 2021.
- Submit the next Semi-Annual Remedy Selection and Design Progress Report by June 12, 2021.

- Conduct the first semi-annual assessment monitoring event in the first half of 2021 and submit the annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2021.

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

Assessment Monitoring Initiated: January 15, 2018
Monitoring Period: January 1 - December 31, 2020
Beginning Status: Assessment
Ending Status: Assessment

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-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
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-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18
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-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-25
Fluoride	GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21
pH	GC-AP-MW-12
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-13, GC-AP-MW-14, GC-AP-MW-15
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

Appendix IV SSLs

Parameter	Wells
Arsenic	GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW10, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18
Cobalt	GC-AP-MW-1, GC-AP-MW-11
Lithium	GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW12, 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: No
Selection Date: Not yet selected
Initiated During Period: No
Ongoing During Period: No

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ABBREVATIONS

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

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

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) and the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2020 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2020 semi-annual assessment groundwater monitoring activities at the Plant Greene County Ash Pond and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). 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).

2.0 SITE LOCATION AND DESCRIPTION

Alabama Power Company's 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.

2.1 SITE GEOLOGY AND HYDROGEOLOGY

2.1.1 Physical Setting

Plant Greene County is located in the Alluvial-deltaic Plain district of the East Gulf Coastal Plain physiographic province (Sapp and Emplaincourt, 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 south east 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.

2.1.2 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.

2.1.3 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.

2.1.4 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. 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 topographic high southwest of the pond provides a localized mound where groundwater elevations are higher than neighboring monitoring wells. In this area, groundwater flow could sometimes be towards the Greene County Ash Pond or proximal to a no flow zone.

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.

2.2 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.

2.2.1 Monitoring Wells

The detection and compliance groundwater monitoring network comprises 29 monitoring wells. Monitoring well locations and piezometers are presented on **Figure 5, Monitoring Well Location Map**.

Table 1 Groundwater Monitoring Well Network Details summarizes the monitoring well construction details and design purpose for the Plant Greene County Ash Pond.

2.2.1.1 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. Historically, monitoring wells GC-AP-MW-11, GC-AP-MW-12, and GC-AP-MW-21 were included in the upgradient pool for statistical analyses. Following a review of historical data, upgradient monitoring wells GC-AP-MW-11, GC-AP-MW-12, and GC-AP-MW-21 are now designated as downgradient wells.

2.2.1.2 Downgradient Wells

Monitoring well locations GC-AP-MW-1 through GC-AP-MW-3, GC-AP-MW-5 through GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, and GC-AP-MW-31 through 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.

2.2.1.3 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. GC-AP-PZ-22 is planned to be abandoned, because this piezometer is predominantly dry.

2.2.1.4 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 300 to 400 feet of 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. Delineation monitoring well GC-AP-MW-56H did not produce sufficient water to allow for development or sampling, and was abandoned in May 2020.

Six additional delineation wells are located off-site, and access agreements with the property owners are 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 well 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. Delineation wells are identified on **Figure 5** and detailed on **Table 1**. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program. A semi-annual progress and groundwater delineation report summarizing findings was submitted to ADEM on September 30, 2020. The boring logs, well installation logs, and development logs are included as **Appendix A**, **Monitoring Well Installation Data.**

2.2.1.5 Monitoring Well Replacement and Abandonment

Delineation monitor well GC-AP-MW-56H did not produce sufficient water to allow for development or sampling and was abandoned in May 2020. An additional boring, GC-AP-MW-58H, was advanced in an effort to install a permanent replacement delineation well for GC-AP-MW-56H. Minimal groundwater was observed in the boring after drilling to the top of bedrock. The augers were left in the borehole overnight and water levels monitored for 24 hours. An insufficient volume of water was measured, and the boring was subsequently abandoned in accordance with Alabama well construction standards described in Administrative Code Div. 335-13 and the Alabama Environmental Investigation and Remediation Guidance (AEIRG; Revised 2017). The abandonment report is included in **Appendix B, Monitor Well Abandonment Report**.

2.2.1.6 Monitoring Variances

The groundwater monitoring program at the site is operating under a Variance granted by the Department 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.

2.2.2 Groundwater Monitoring History

Background groundwater monitoring was performed at the site from February 2016 through June 2017. Semi-annual compliance monitoring began in August 2017.

2.2.2.1 Available Monitoring Data

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, and April and August 2020.

Tables summarizing analytical data from all previous groundwater monitoring events are included in **Appendix C, Groundwater Analytical Data**.

2.2.2.2 Historical Groundwater Flow

Historical potentiometric data from the site show that groundwater flow generally is a subdued representation of topography. 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. Groundwater elevations fluctuate in response to rainfall and fluctuations 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.

2.2.3 Groundwater Sampling and Analysis

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 preceding year. The Plant Greene County Ash Pond entered an Assessment Monitoring program pursuant to 40 CFR §257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a) in January 2018. Statistical evaluations of 2018 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS and the site entered into 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 were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. These wells along with the compliance monitoring well network are sampled semi-annually.

2.2.3.1 Sampling Event Summary

Semi-annual Assessment Monitoring sampling events occurred in April and August 2020. Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during each assessment monitoring event. Analytical data from the groundwater monitoring events is included as **Appendix D, Laboratory and Field Records,** in accordance with the requirements of § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

2.2.3.2 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, a SmarTroll 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 D**.

2.2.3.3 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.

2.2.3.4 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 included in **Appendix D.**

2.2.3.5 Laboratory Analysis

Laboratory analyses was performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama or Eurofins Test America (TAL), of Pensacola, Florida and St. Louis, Missouri. Both APCEL and TAL 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 at the site. Groundwater data and chain of custody records for the monitoring events are presented in **Appendix D**.

3.0 GROUNDWATER DATA EVALUATION

3.1 GROUNDWATER ELEVATION DATA EVALUATION

During the April 2020 sampling event, depths to water ranged from 1.80 to 26.95 feet below top of casing (ft BTOC) and groundwater elevations ranged from 99.30 to 82.62 feet above mean seal level (ft MSL). During the August 2020 sampling event, depths to water ranged from 6.78 to 35.60 ft BTOC and groundwater elevations ranged from 96.38 to 73.98 ft MSL. Additionally, comprehensive water level measurements were collected during delineation sampling events conducted on May 27, 2020 and June 30, 2020. **Figure 6A, Potentiometric Surface Contour Map (April 20, 2020)**, **Figure 6B, Potentiometric Surface Contour Map (May 28, 2020)**, **Figure 6C, Potentiometric Surface Contour Map (June 30, 2020)**, and **Figure 6D, Potentiometric Surface Contour Map (August 10, 2020)** depict groundwater elevations and inferred groundwater flow direction from higher elevation to lower. As shown on Figure 6A through Figure 6D, groundwater flow is generally towards the south with some flow observed towards the north, west, and east. 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. All available groundwater elevation data has been tabulated and included in **Table 3, Groundwater Elevations Summary**.

3.2 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 on **Table 4, 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 = Groundwater flow velocity $\left(\frac{feet}{day}\right)$

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

i = Horizontal hydraulic gradient

n_e= Effective porosity

Using this equation, groundwater flow velocity is calculated for various areas of the site and is tabulated on **Table 4**. **Table 4** presents the estimated horizontal flow velocity calculated using groundwater elevation data from the sampling events in 2020.

4.0 EVALUATION OF GROUNDWATER QUALITY DATA

4.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

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. Equipment blank and field blank samples were also collected during each sampling event.

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 5, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during 2020 sampling events. All RPDs were below 20% for the 2020 sampling events except fluoride in parent-duplicate pairs GC-AP-MW-1/GC-AP-MW-1 DUP (first and second semi-annual sampling events) and GC-AP-MW-59HO/GC-AP-MW-59HO DUP (second semi-annual sampling event). However, a qualifier was not needed because all of the results were less than five times the RL and the difference between the parent and duplicate results was less than the RL value.

4.2 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).

4.2.1 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. 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.

4.2.2 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.

4.3 STATISTICAL EXCEEDANCES

Analytical data from the 2020 semi-annual monitoring events in April and August were statistically analyzed in accordance with the professional engineer (PE)-certified Statistical Analysis Plan (October

2017) and updated in August 2020 performed 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.

4.3.1 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.

4.3.2 Appendix IV Constituents

Table 6, 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 C, Statistical Analysis.**

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

- GC-AP-MW-1: Arsenic, Cobalt.
- GC-AP-MW-5: Arsenic, Lithium.
- GC-AP-MW-10: Arsenic, Lithium.
- GC-AP-MW-11: Cobalt, Lithium.
- GC-AP-MW-12: Lithium.
- GC-AP-MW-13: Lithium.
- GC-AP-MW-14: Arsenic, Lithium.
- GC-AP-MW-15: 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 7, First Semi-Annual Monitoring Event Analytical Summary, provides a summary of all detected constituents for the first semi-annual sampling event.

Limited groundwater analytical data are available for delineation wells installed at the site in 2019 and 2020. Limited data exists to statistically compare results to the GWPS; therefore, groundwater quality data is simply compared to the GWPS. A review of analytical data derived from delineation wells revealed the following GWPS exceedances for the second semi-annual sampling event:

- GC-AP-MW-37H: Cobalt.
- GC-AP-MW-39H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-40H: 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-50HO: Lithium.
- GC-AP-MW-48H: Lithium.
- GC-AP-MW-49H: Lithium.
- GC-AP-MW-53H: Arsenic, Cobalt.
- GC-AP-MW-54H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-57H: Arsenic, Cobalt.
- GC-AP-MW-59HO: Cobalt.
- 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 progress updates submitted in September 2019, March 2020, and September 30, 2020. **Table 8, Second Semi-Annual Monitoring Event Analytical Summary**, provides a summary of all detected constituents for the second semi-annual sampling event.

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 AO 18-097-GW. The ACM was submitted to the Department and placed in the operating record on June 12, 2019.

5.0 MONITORING PROGRAM STATUS

The site is currently in assessment monitoring and evaluating groundwater corrective action alternatives. 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 in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-097-GW.

6.0 EVALUATION OF GROUNDWATER CORRECTIVE MEASURES

Site investigations and preliminary design work have continued at the Site to support remedy selection and design. As discussed in the ACM (Anchor QEA 2019), completing a final long-term corrective action plan is generally a multi-year process. Additional assessment work has been completed since June 2020, and laboratory work has been performed to support monitored natural attenuation (MNA) and in situ geochemical manipulation as discussed in the ACM. MNA and geochemical manipulation are both geochemically based, such that site-specific geochemical data and analyses can be applied to both technologies.

Laboratory analysis of groundwater and precipitates (attenuating solids) was conducted to support MNA and geochemical manipulation. The major rationale for these investigations includes the following:

- Identifying attenuating mechanisms.
- Gaining an understanding of the stability of the attenuating mechanisms.
- Identifying potential geochemical manipulation approaches for constituents of interest (COI) based on Site geochemical conditions and attenuation processes already occurring naturally.

In the previous semi-annual remedy selection and design reporting period (January through June 2020), the following field and laboratory investigations were performed:

- Evaluated groundwater analytical data (primarily graphing) to look for evidence of natural attenuation occurring in space and time.
- Collected groundwater samples from background and impacted wells and performed a complete chemical analysis on the samples to enable groundwater geochemical modeling and the development of a geochemical conceptual site model (CSM).
- Performed geochemical modeling using the U.S. Geological Survey (USGS) computer program PHREEQC with the WATEQ4F thermodynamic database.
- Collected precipitate samples from the bottom of monitoring wells.
- Analyzed precipitate samples by X-ray fluorescence (XRF) and X-ray diffraction (XRD).

The following investigations were begun in the last reporting period but completed in the current reporting period:

- Scanning electron microscopy (SEM) to directly observe attenuating mineral phases.

- Selective sequential extraction (SSE) to determine association of COI with attenuating phases, determine relative strength of attenuation, and provide a sense of permanence.
- Cation exchange capacity (CEC) to assess ion exchange as an attenuation mechanism.

The work performed since the completion of the June 2020 Remedy Selection and Design Progress Report includes the following:

- Installing and sampling on-site and off-site horizontal delineation wells.
- Completing SEM, SSE, and CEC testing on well solids samples.
- Analyzing and synthesizing the laboratory data described above to develop a geochemical CSM and to evaluate MNA and geochemical manipulation.
- Conceptualizing other corrective action options in the context of site-specific conditions, should MNA not perform as expected.

6.1 PRELIMINARY RESULTS FROM THE GEOCHEMICAL ANLAYSIS

Results from existing groundwater data analysis, geochemical modeling, and well solids analyses provide evidence for attenuation mechanisms for arsenic, cobalt, and lithium. The attenuating mechanisms identified include sorption on iron oxides and oxyhydroxides; precipitation and co-precipitation with iron (arsenic and cobalt) and manganese (lithium) minerals; and cation exchange on clay minerals (lithium and possibly cobalt).

Concentrations versus time and concentration versus distance graphs, laboratory analyses, and geochemical equilibrium modeling were used to develop an initial geochemical conceptual site model, including probable attenuating mechanisms for arsenic, lithium, and cobalt, and the relative stability of those mechanisms. The initial CSM for the Site is as follows:

- Multiple lines of evidence for arsenic, cobalt, and lithium attenuation.
- Aerobic (upgradient) to suboxic (downgradient), and acidic conditions in groundwater.
- Redox buffered by iron oxide (+/- carbonate) equilibria.
- Arsenic attenuation by sorption to iron oxides and possibly precipitation of barium arsenate.
- Cobalt attenuation by adsorption on, and co-precipitation with iron oxides.
- Lithium attenuation by ion exchange on oxides and clay minerals.

As supported by selective sequential extraction (SSE) results and the scientific literature, incorporation of arsenic and cobalt into iron minerals, arsenic into barium arsenate, and lithium into manganese oxides are

relatively stable attenuation mechanisms. Data collected and available during the publication of this report are included as **Appendix F, MNA Evaluation – Geochemical Lab Data.**

7.0 SUMMARY AND CONCLUSIONS

Semi-annual assessment monitoring events took place in April and August 2020. Statistical evaluations of the 2020 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS. The site remains in assessment monitoring while groundwater corrective remedies are being evaluated. Additional monitoring wells were installed to assess the horizontal and vertical extent of groundwater impacts at the site. The results of this investigation were submitted to ADEM in May 2019. Additional details on delineation efforts were provided in subsequent semi-annual progress reports in September 2019 and March 2020 and a semi-annual progress and groundwater delineation report submitted in September 2020. These additional monitoring wells will continue to be sampled and analyzed as part of the ongoing assessment monitoring program. An ACM was completed on June 12, 2019 to address SSLs of Appendix IV above groundwater protection standards.

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

- Collect additional data to further evaluate remedies selected as feasible for the remediation of arsenic, cobalt, and lithium as described in the ACM.
- Continue to compare site-specific corrective actions to the evaluation criteria in the CCR Rule, with emphasis on deficiencies that could eliminate a corrective action from further consideration.
- Continue to determine how corrective actions could be integrated with pond closure, such as dewatering and associated water treatment systems.
- Develop plans for additional Site investigations and associated laboratory work to determine MNA capacity, rates, and stability; and plans for laboratory treatability and/or field pilot tests to determine the effectiveness of geochemical manipulation as needed.
- Collect additional soil samples and perform associated laboratory work to determine MNA capacity, rates, and stability.
- Perform laboratory treatability studies and implement field pilot tests as needed.
- Prepare a Remedy Selection Report.
- Develop a Corrective Action Groundwater Monitoring Program.
- Submit the next Semi-Annual Progress Report by March 30, 2021.
- Submit the next Semi-Annual Remedy Selection and Design Progress Report by June 12, 2021.

- Conduct the first semi-annual assessment monitoring event in the first half of 2021 and submit the annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2021.

8.0 REFERENCES

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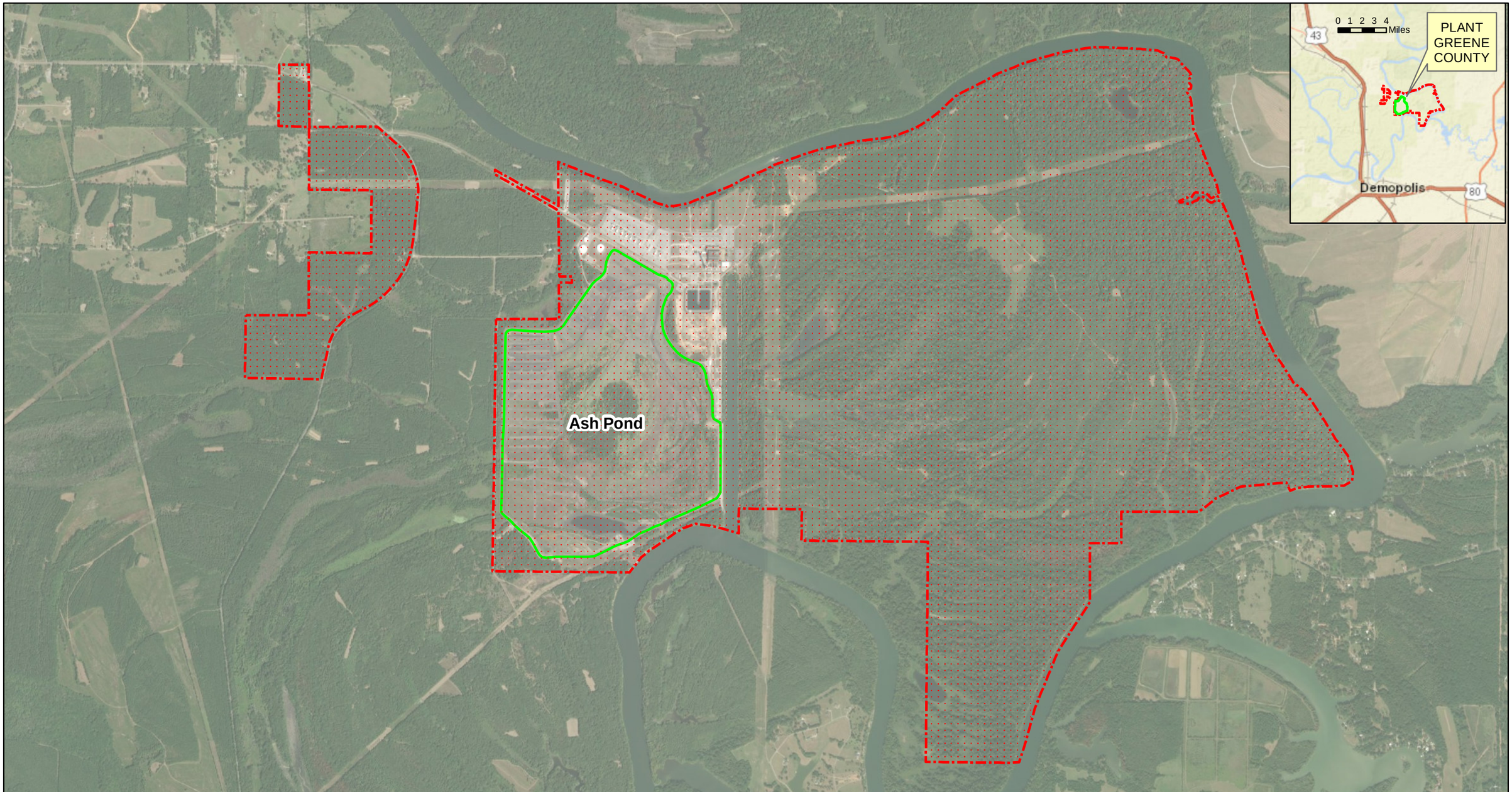
Figures



Legend

Property Boundary (Approximate)

Ash Pond Boundary

N

0 1,000 2,000 4,000 6,000 8,000 Feet

SCALE	1:24000
DATE	10/28/2020
DRAWN BY	KWR
CHECKED BY	GBD

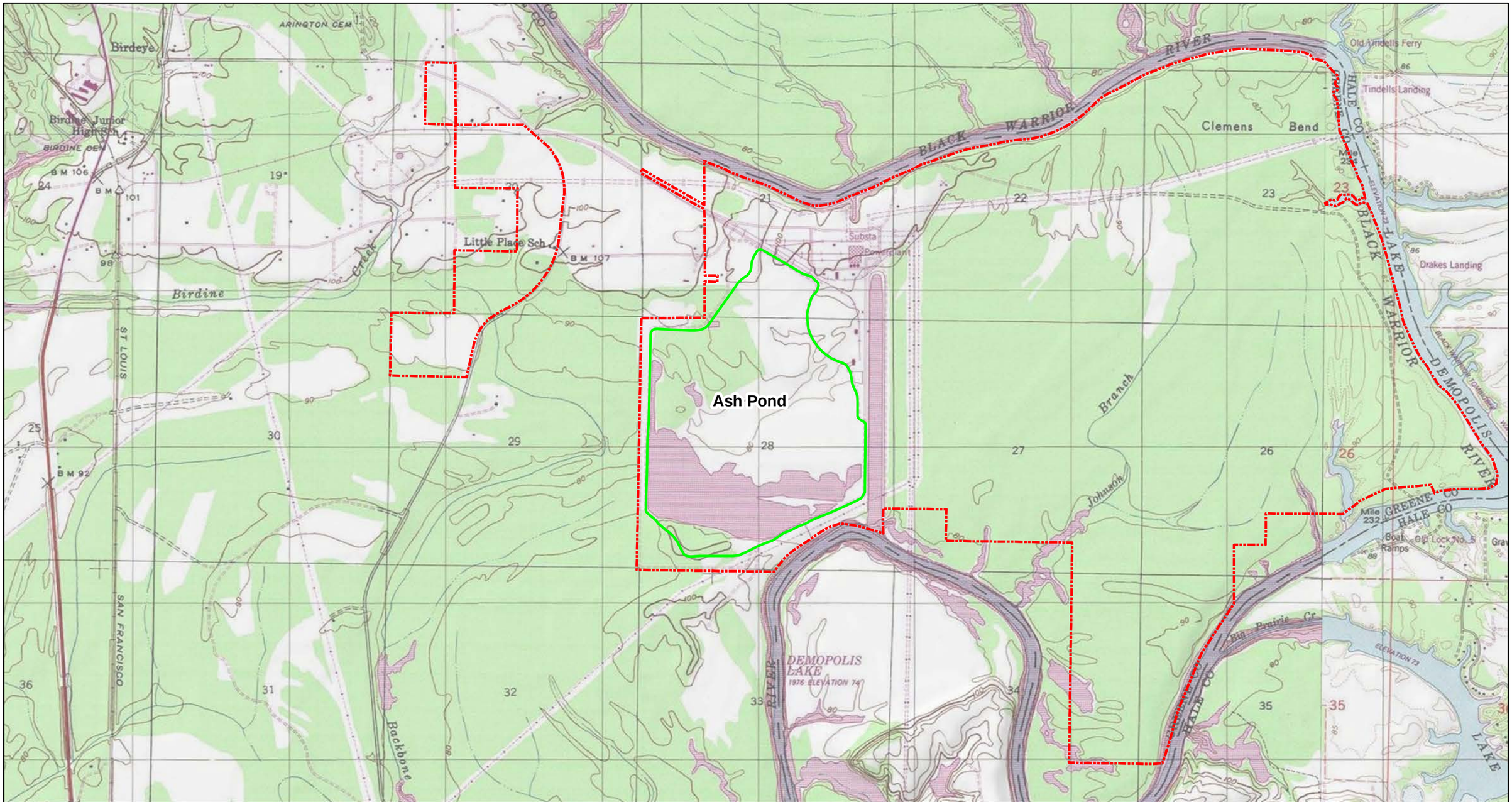
DRAWING TITLE

SITE LOCATION MAP
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 1

Southern Company



Legend

- Property Boundary (Approximate)
- Ash Pond Boundary

N

0 1,000 2,000 4,000 6,000 8,000 Feet

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

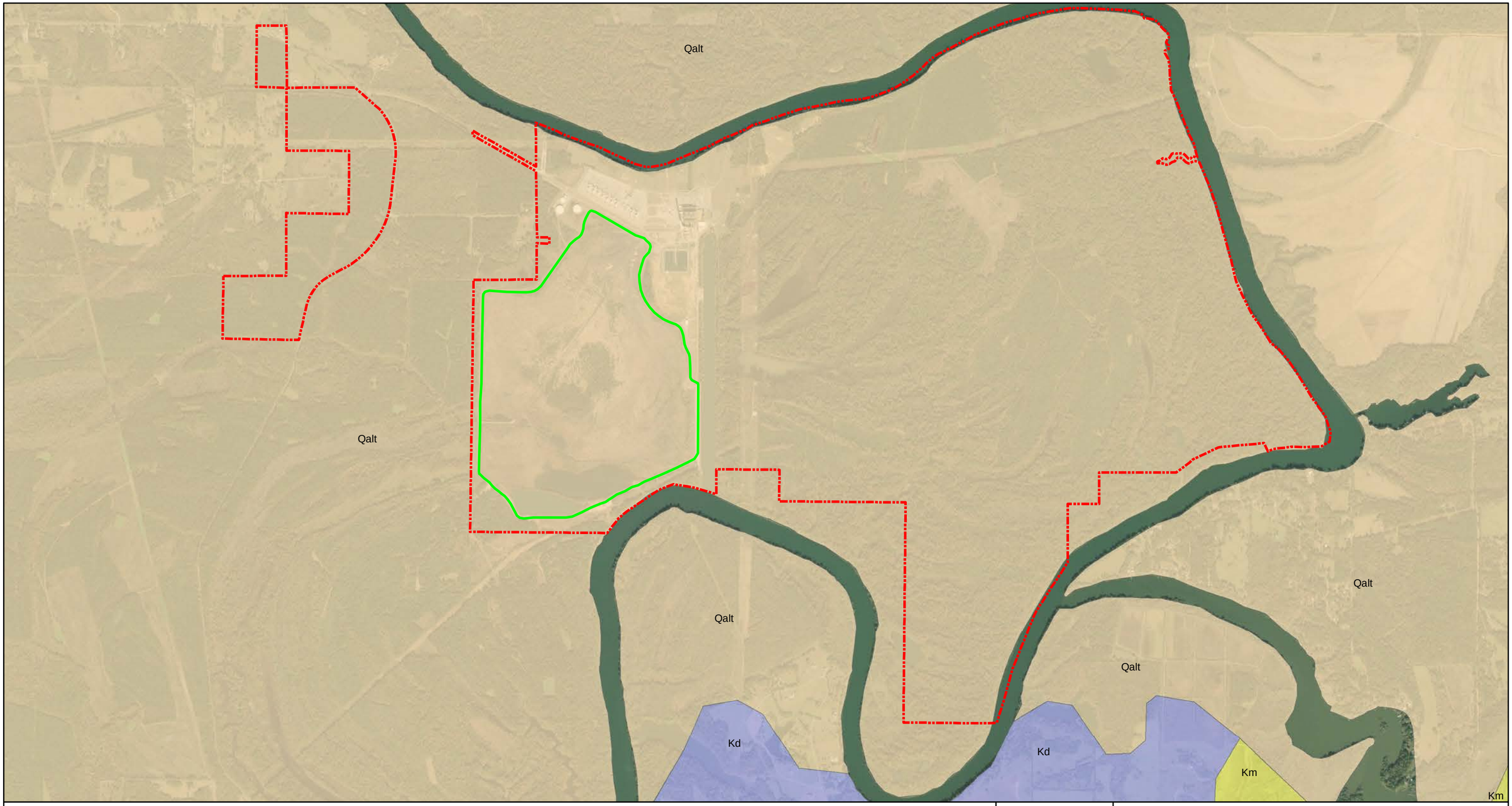
DRAWING TITLE

SITE TOPOGRAPHIC MAP
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 2

Southern Company



Legend

- Ash Pond Boundary
- Property Boundary (Approximate)

Geologic Unit

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

N

0 1,000 2,000 4,000 6,000 8,000 Feet

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

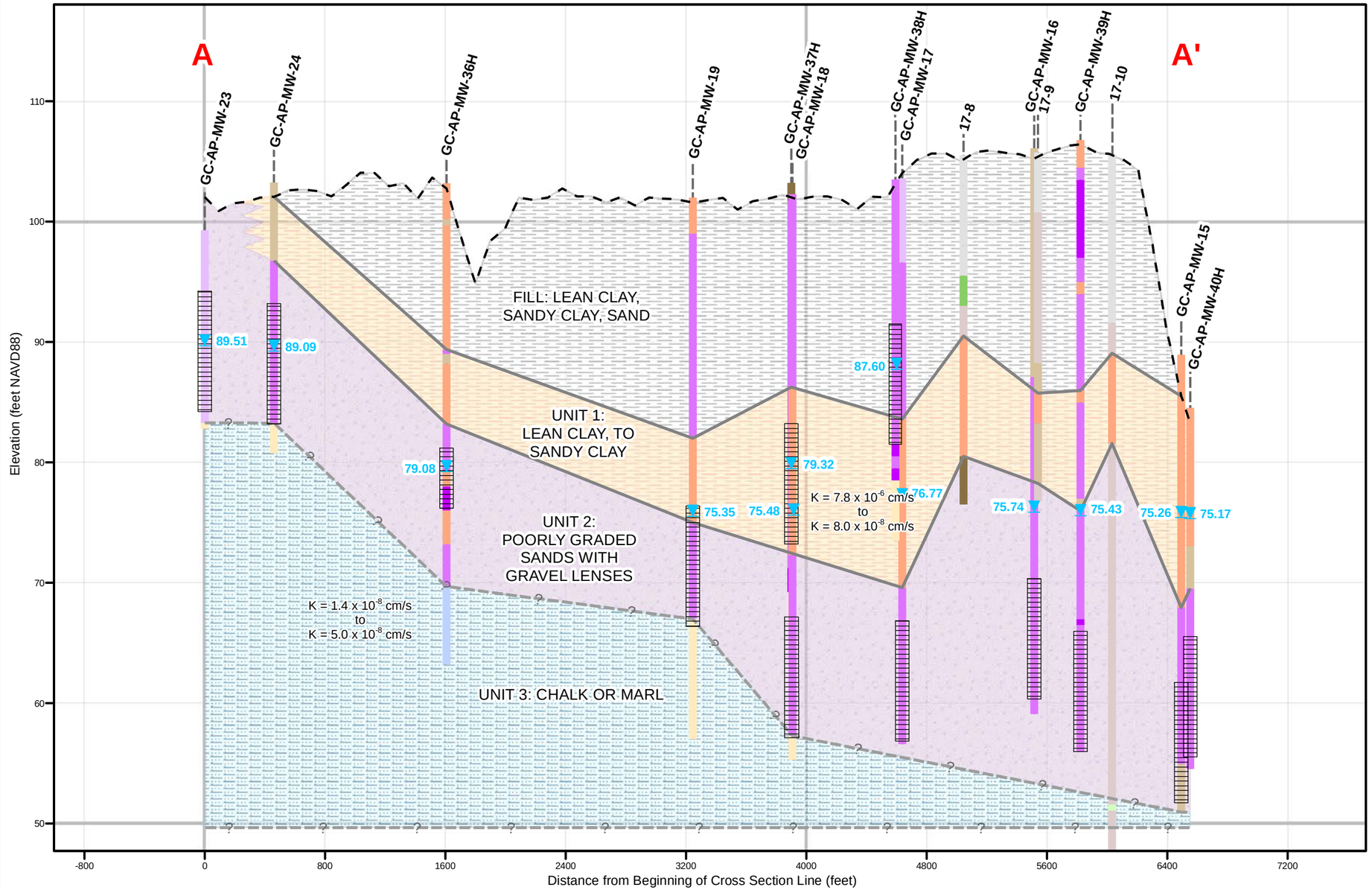
DRAWING TITLE

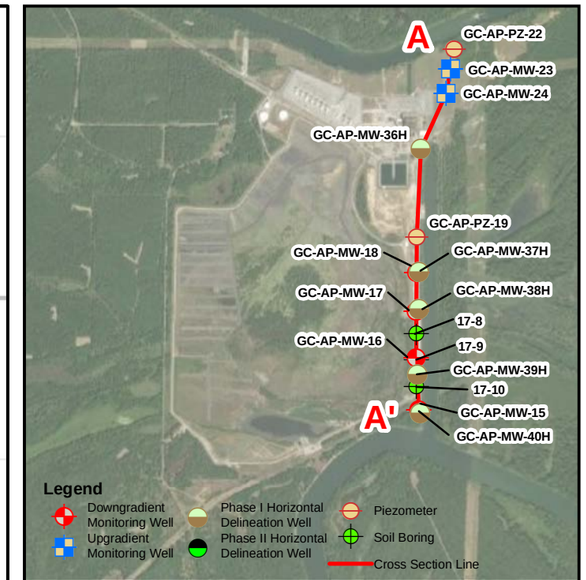
SITE GEOLOGIC MAP
PLANT GREENE COUNTY ASH POND

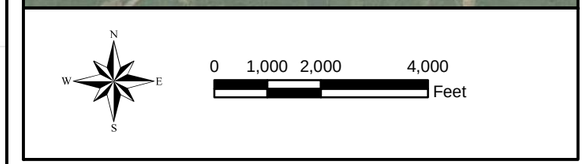
FIGURE NO

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. Maximum and minimum groundwater elevation data were derived from the highest and lowest groundwater elevation values measured during events spanning February 16, 2016 to February 17, 2020.
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).

Legend

- Groundwater Elevation
- Well Location
- Ground Surface Elevation
- Screen Interval
- Unit Boundary (inferred)
- Unit Boundary

Borehole Description

- Fill
- Fat Clay
- Lean Clay
- Silt
- Sandy Silt
- Clayey Sand
- Silty Sand
- Sand
- Well-graded Sand
- Poorly-graded Sand
- Poorly-graded Sand with Clay
- Chalk

Geologic Units

- Fill: Lean Clay, Sandy Clay, Sand
- Unit 1: Lean Clay to Sandy Clay
- Unit 2: Poorly Graded Sands with Gravel Lenses
- Unit 3: Chalk or Marl

SCALE	As Shown
DATE	9/15/2020
DRAWN BY	KWR
CHECKED BY	GBD

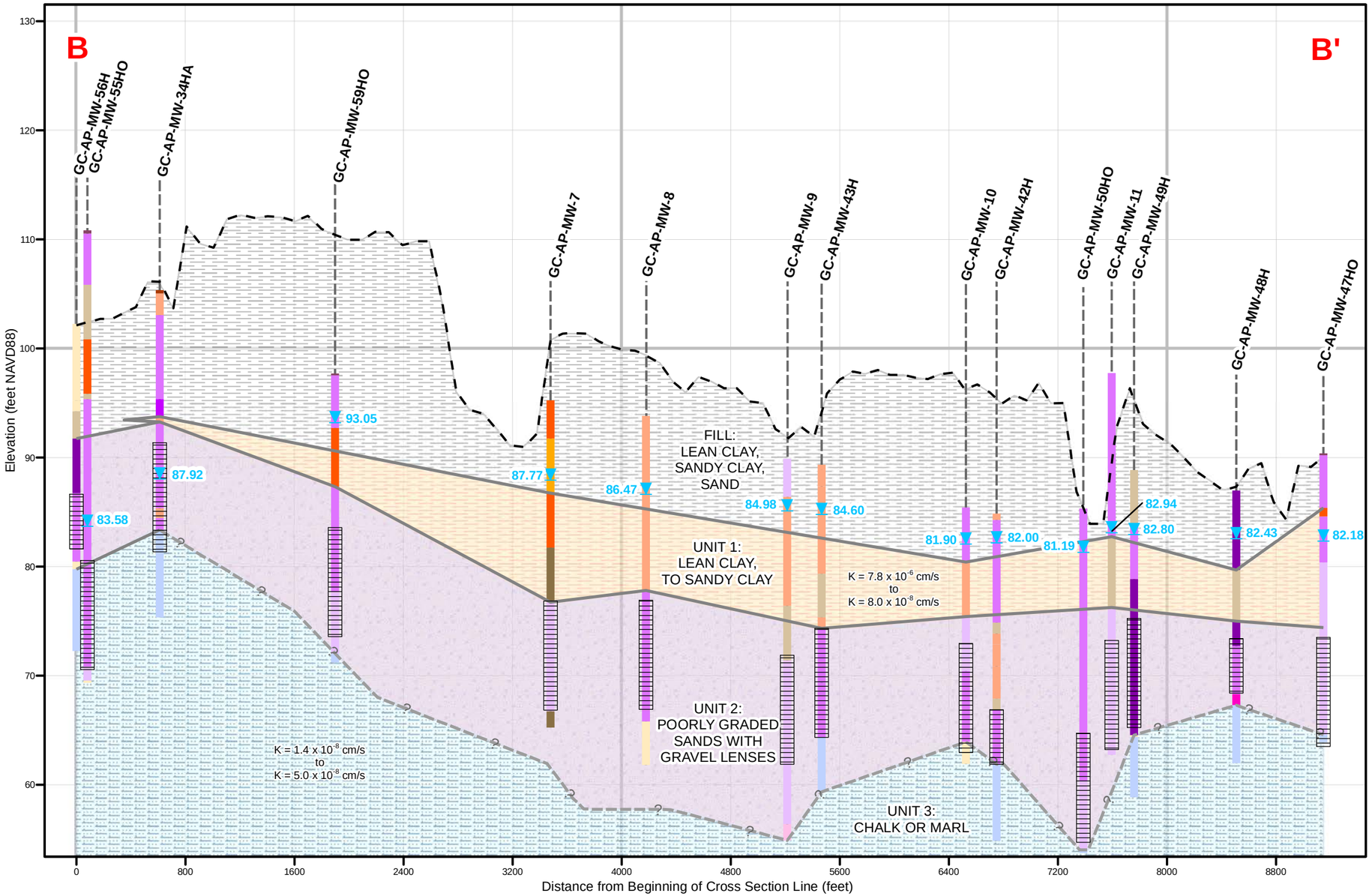
DRAWING TITLE

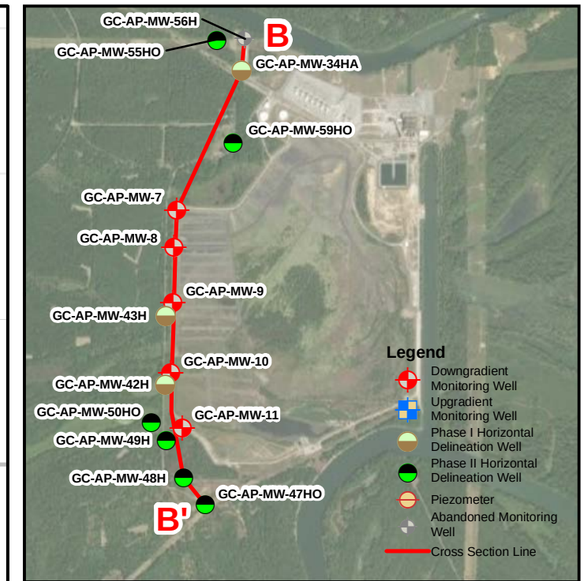
GEOLOGIC CROSS SECTION A - A'
PLANT GREENE COUNTY ASH POND

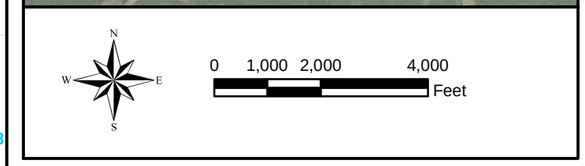
FIGURE NO

FIGURE 4A

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 elevation data were measured on June 30, 2020.
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.
6. Vertical exaggeration = 80.

Legend

- Groundwater Elevation
- Ground Surface Elevation
- Screen Interval
- Unit Boundary (Inferred)
- Unit Boundary
- Well Location

Borehole Description

- Topsoil
- Fat Clay
- Lean Clay
- Silty Clay
- Sandy Lean Clay
- Sandy Silt
- Clayey Sand
- Silty Sand
- Well-graded Sand
- Poorly-graded Sand
- Poorly-graded Sand with Clay
- Poorly-graded Sand with Silt
- Well-graded Gravel
- Poorly-graded Gravel
- Chalk

Geologic Units

- Fill: Lean Clay, Sandy Clay, Sand
- Unit 1: Lean Clay to Sandy Clay
- Unit 2: Poorly Graded Sands with Gravel Lenses
- Unit 3: Chalk or Marl

SCALE	As Shown
DATE	9/15/2020
DRAWN BY	KWR
CHECKED BY	GFB

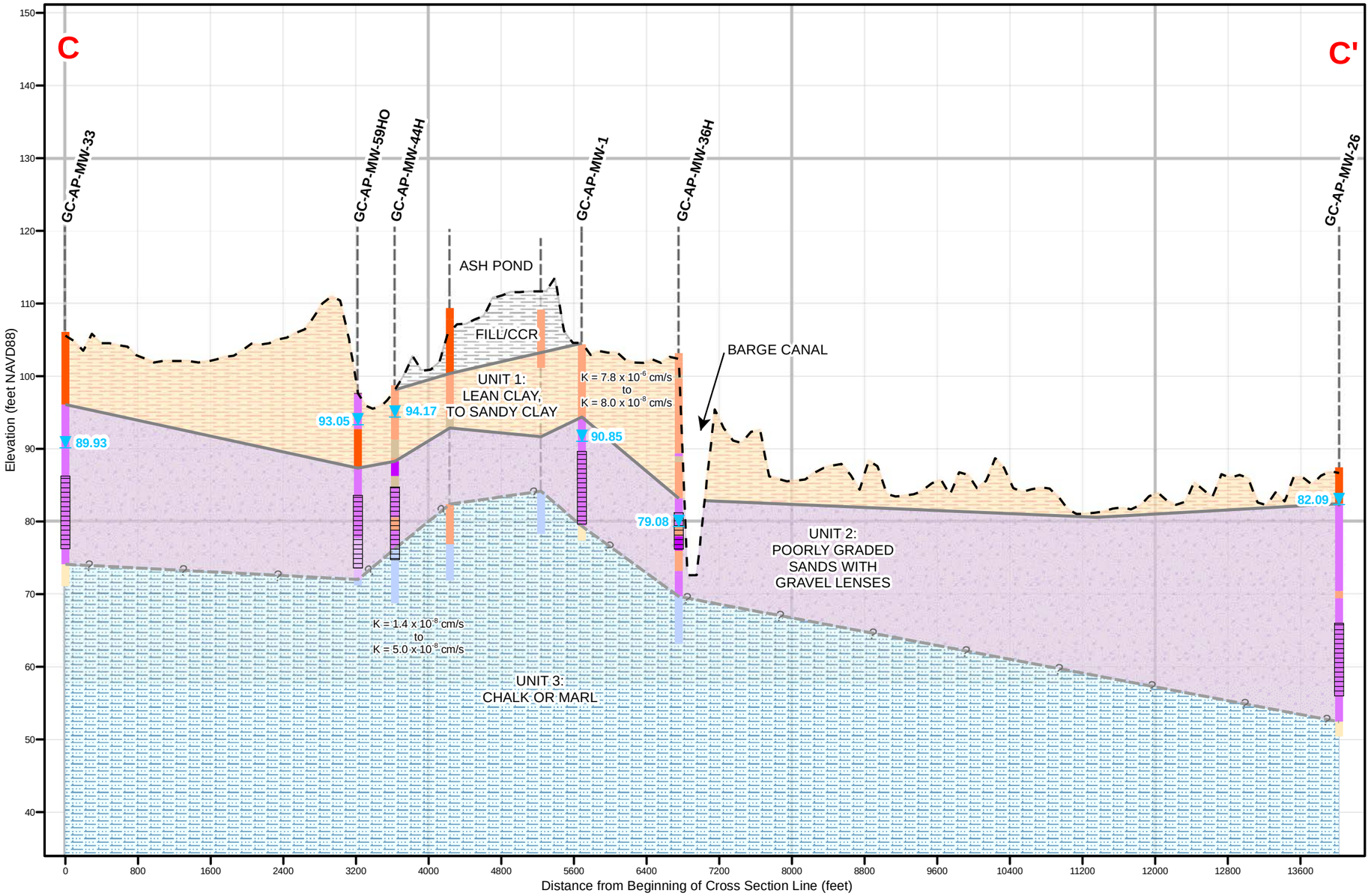
DRAWING TITLE

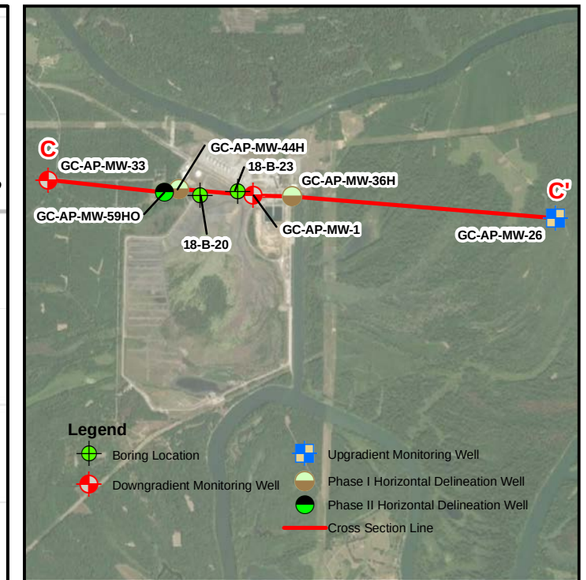
GEOLOGIC CROSS SECTION B - B'
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 4B

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 elevation data were measured on June 30, 2020.
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. Vertical exaggeration = 80.

Legend

- Groundwater Elevation
- Ground Elevation
- Screen Interval
- Unit Boundary (Inferred)
- Unit Boundary
- Well Location

Borehole Description

- Topsoil
- Fat Clay
- Lean Clay
- Silty Clay
- Sandy Lean Clay
- Sandy Silt
- Clayey Sand
- Silty Sand
- Well-graded Sand
- Poorly-graded Sand
- Poorly-graded Sand with Clay
- Poorly-graded Sand with Silt
- Well-graded Gravel
- Poorly-graded Gravel
- Chalk

Geologic Units

- Fill/CCR
- Unit 1: Lean Clay to Sandy Clay
- Unit 2: Poorly-Graded Sands with Gravel Lenses
- Unit 3: Chalk or Marl

SCALE	As Shown
DATE	9/17/2020
DRAWN BY	KWR
CHECKED BY	GFB

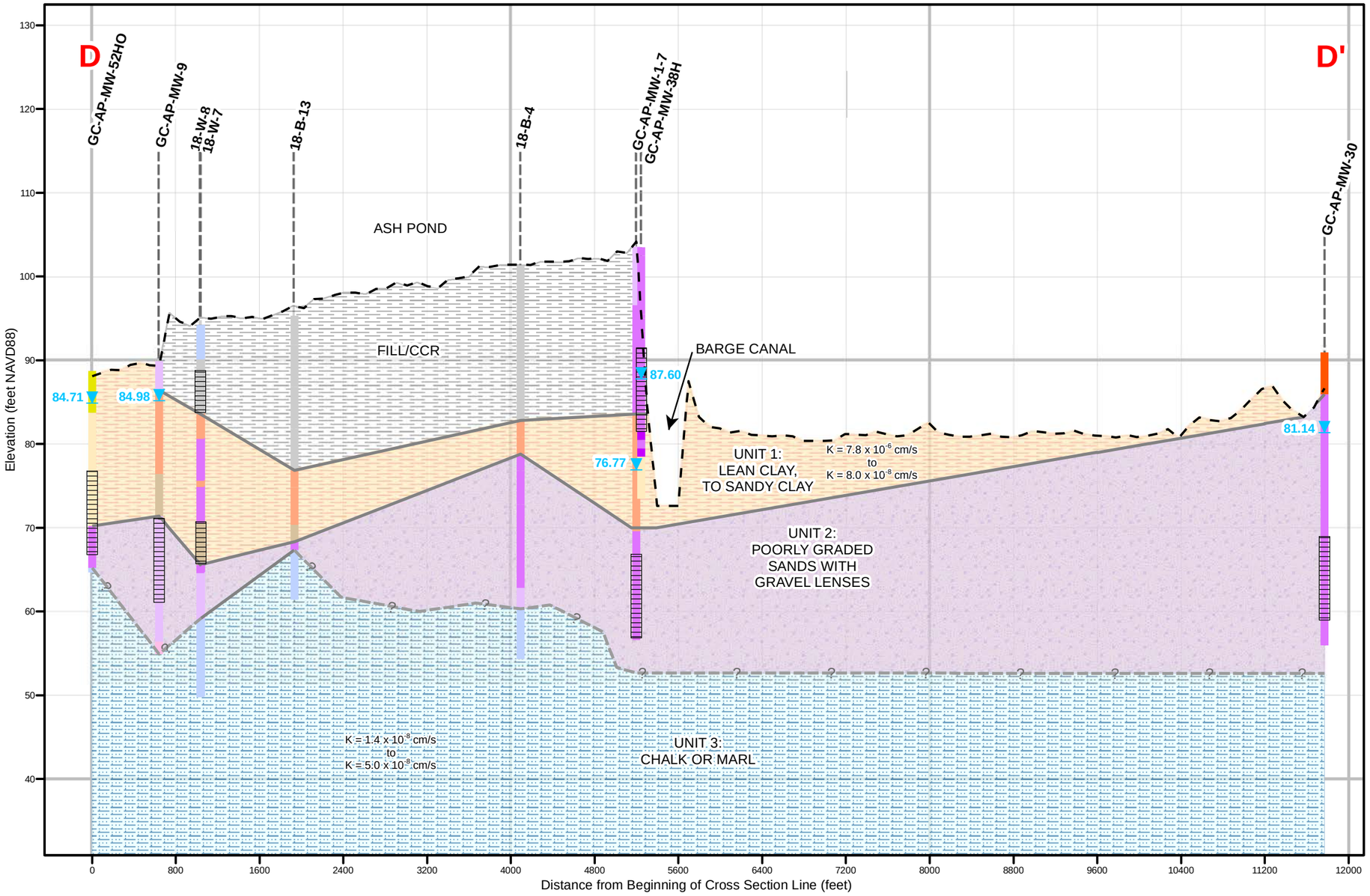
DRAWING TITLE

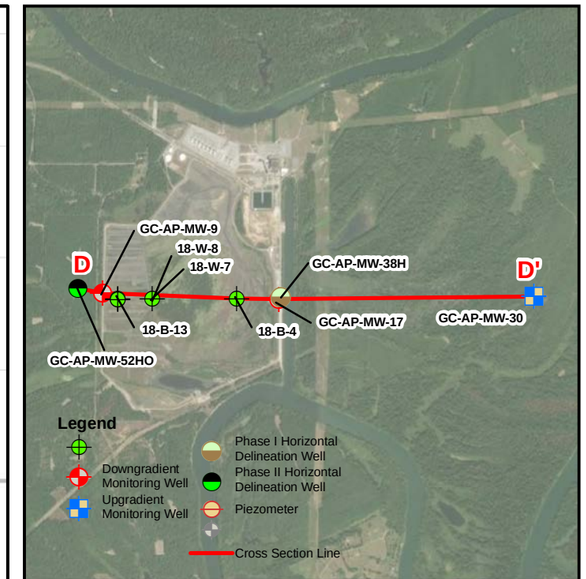
GEOLOGIC CROSS SECTION C - C'
PLANT GREENE COUNTY ASH POND

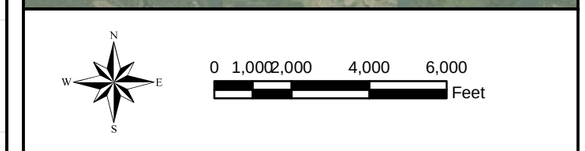
FIGURE NO

FIGURE 4C

Southern Company







Notes:
1. Source of ground surface elevation data: 2016 Lidar.
2. NAVD88 indicates North American Vertical Datum of 1988.
3. Groundwater elevation data were measured on June 30, 2020.
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. Vertical exaggeration = 80.

Legend

- Groundwater Elevation
- Ground Elevation
- Screen Interval
- Unit Boundary (Inferred)
- Unit Boundary
- Well Location

Borehole Description

- Auger
- CCR Fill
- Topsoil
- Fat Clay
- Lean Clay
- Silty Clay
- Sandy Lean Clay
- Sandy Silt
- Clayey Silt
- Clayey Sand
- Silty Sand
- Well-graded Sand
- Poorly-graded Sand
- Poorly-graded Sand with Clay
- Poorly-graded Sand with Silt
- Well-graded Gravel
- Poorly-graded Gravel
- Chalk

Geologic Units

- Fill/CCR
- Unit 1: Lean Clay to Sandy Clay
- Unit 2: Poorly-Graded Sands with Gravel Lenses
- Unit 3: Chalk or Marl

SCALE	As Shown
DATE	9/17/2020
DRAWN BY	KWR
CHECKED BY	GFB

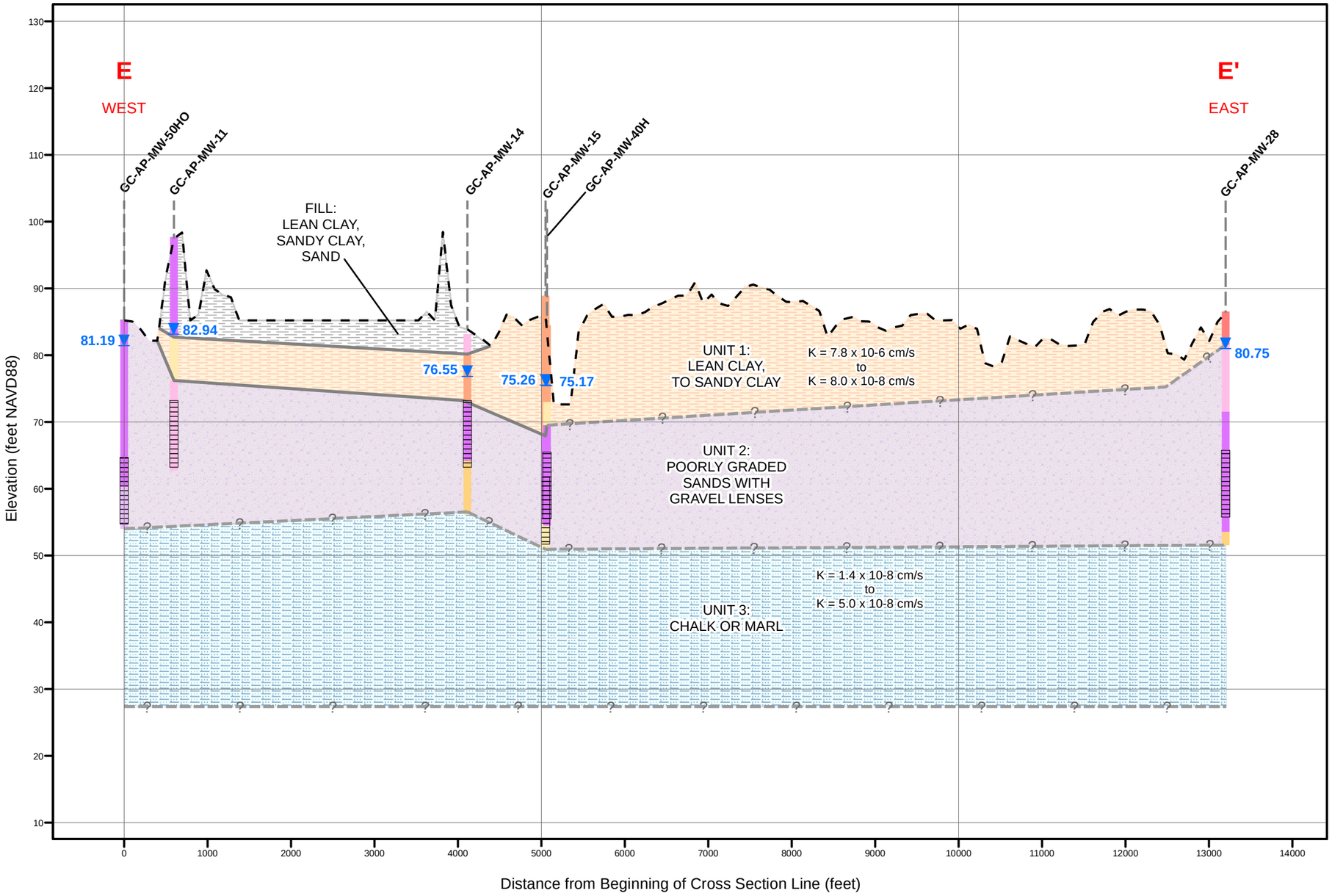
DRAWING TITLE

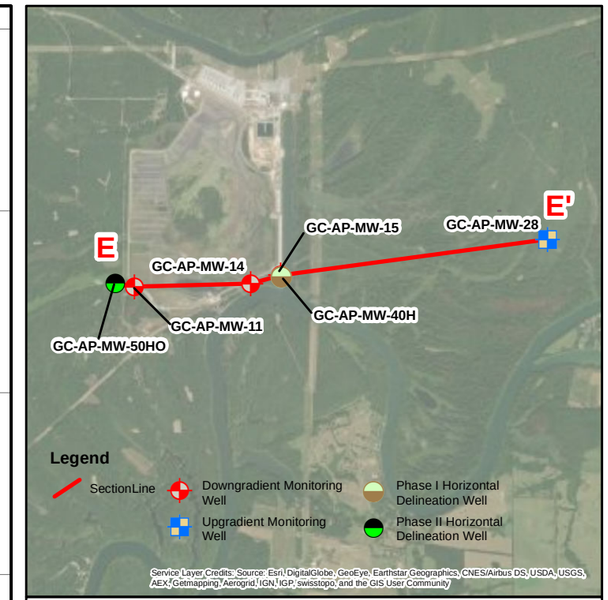
GEOLOGIC CROSS SECTION D - D'
PLANT GREENE COUNTY ASH POND

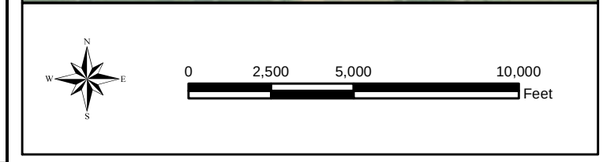
FIGURE NO

FIGURE 4D

Southern Company







Notes:
1. Source of ground surface elevation data: 2020 Lidar and 2019 USGS 3DEP
2. NAVD88 indicates North American Vertical Datum of 1988
3. Groundwater elevations measured on June 30, 2020.
4. Vertical exaggeration = 80.
5. K = Hydraulic Conductivity.

Legend

- Ground Surface Elevation
- Screen Interval
- Groundwater Elevation
- Unit Boundary (Inferred)
- Unit Boundary

Borehole Description

- Top Soil
- Poorly Graded Sand
- Well Graded Sand
- Poorly Graded Sand with Clay
- Poorly Graded Sand with Silt
- Well graded sand
- Poorly-graded Gravel
- Fat Clay
- Lean Clay
- Clayey Sand
- Sandy Lean Clay
- Chalk with Traces of Fat CClay
- Chalk

Geologic Units

- Fill: Lean Clay, Sandy Clay, Sand
- Unit 1: Lean Clay to Sandy Clay
- Unit 2: Poorly Graded Sands with Gravel Lenses
- Unit 3: Chalk or Marl

SCALE	As Shown
DATE	8/19/2020
DRAWN BY	KAR
CHECKED BY	GBD

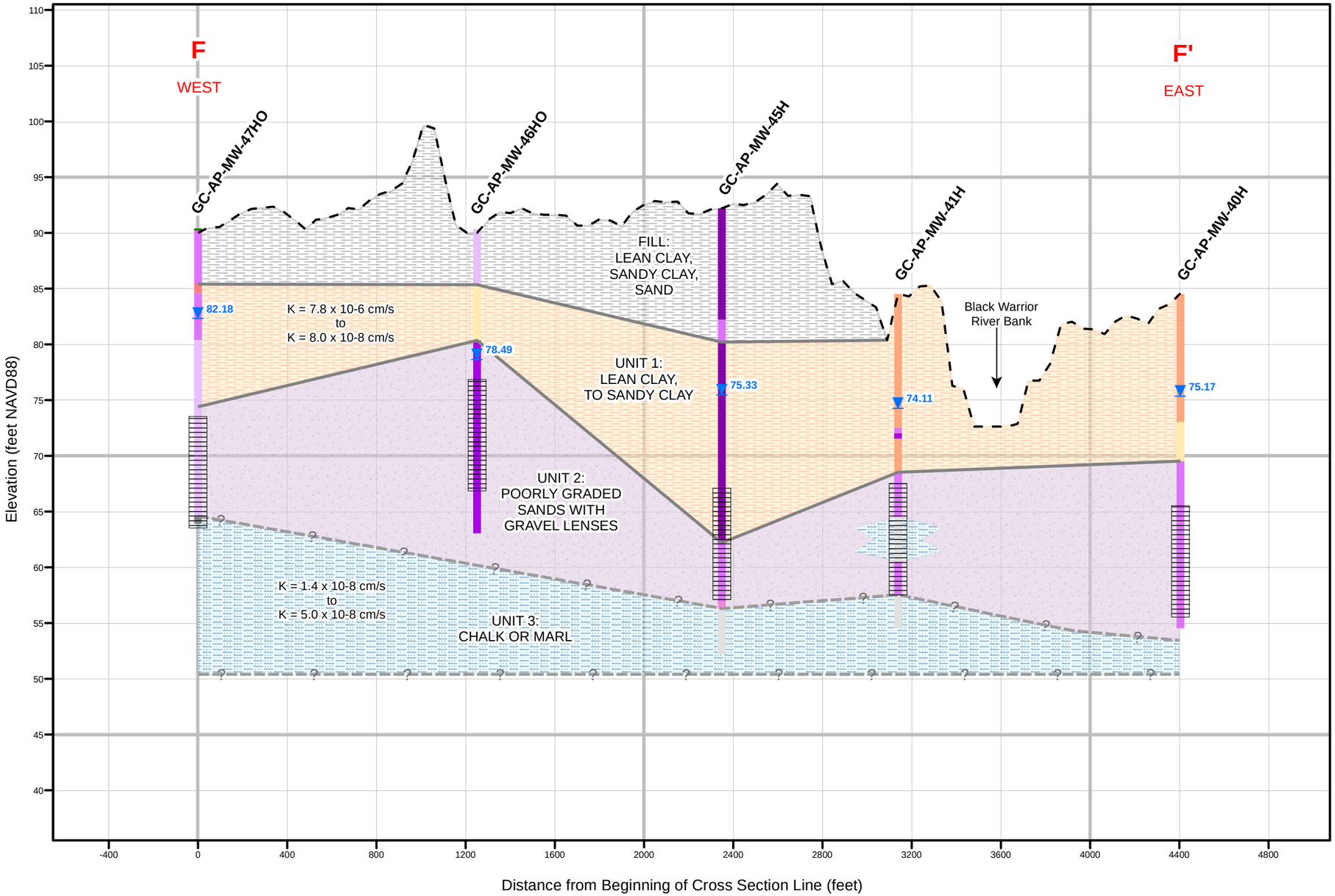
DRAWING TITLE

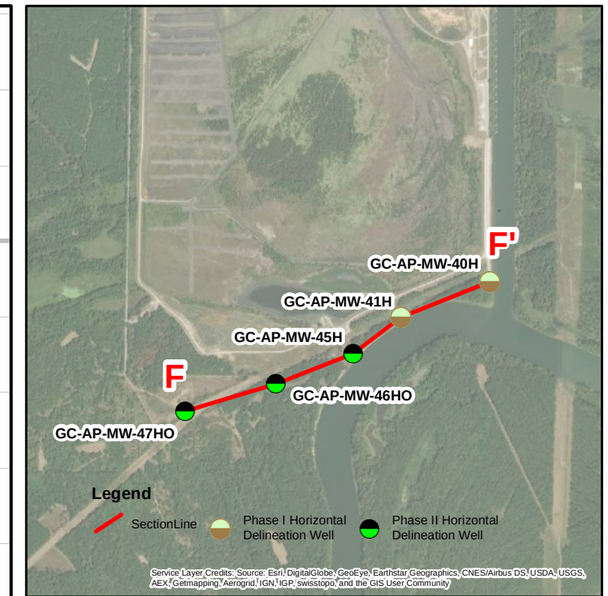
GEOLOGIC CROSS SECTION E - E'
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 4E

Southern Company





Notes:
1. Source of ground surface elevation data: 2020 Lidar and 2019 USGS 3DEP.
2. NAVD88 indicates North American Vertical Datum of 1988
3. Groundwater elevations measured on June 30, 2020.
4. Vertical exaggeration = 50.
5. K = Hydraulic Conductivity.

Legend

- Ground Surface Elevation
- Groundwater Elevation
- Screen Interval
- Unit Boundary (Inferred)
- Unit Boundary

Borehole Description

- Top Soil
- Poorly Graded Sand
- Well Graded Sand
- Poorly Graded Sand with Clay
- Poorly Graded Sand with Silt
- Well graded sand
- Poorly-graded Gravel
- Fat Clay
- Lean Clay
- Clayey Sand
- Sandy Lean Clay
- Chalk with Traces of Fat CClay
- Chalk

Geologic Units

- Fill: Lean Clay, Sandy Clay, Sand
- Unit 1: Lean Clay to Sandy Clay
- Unit 2: Poorly Graded Sands with Gravel Lenses
- Unit 3: Chalk or Marl

SCALE	As Shown
DATE	8/20/2020
DRAWN BY	KAR
CHECKED BY	GBD

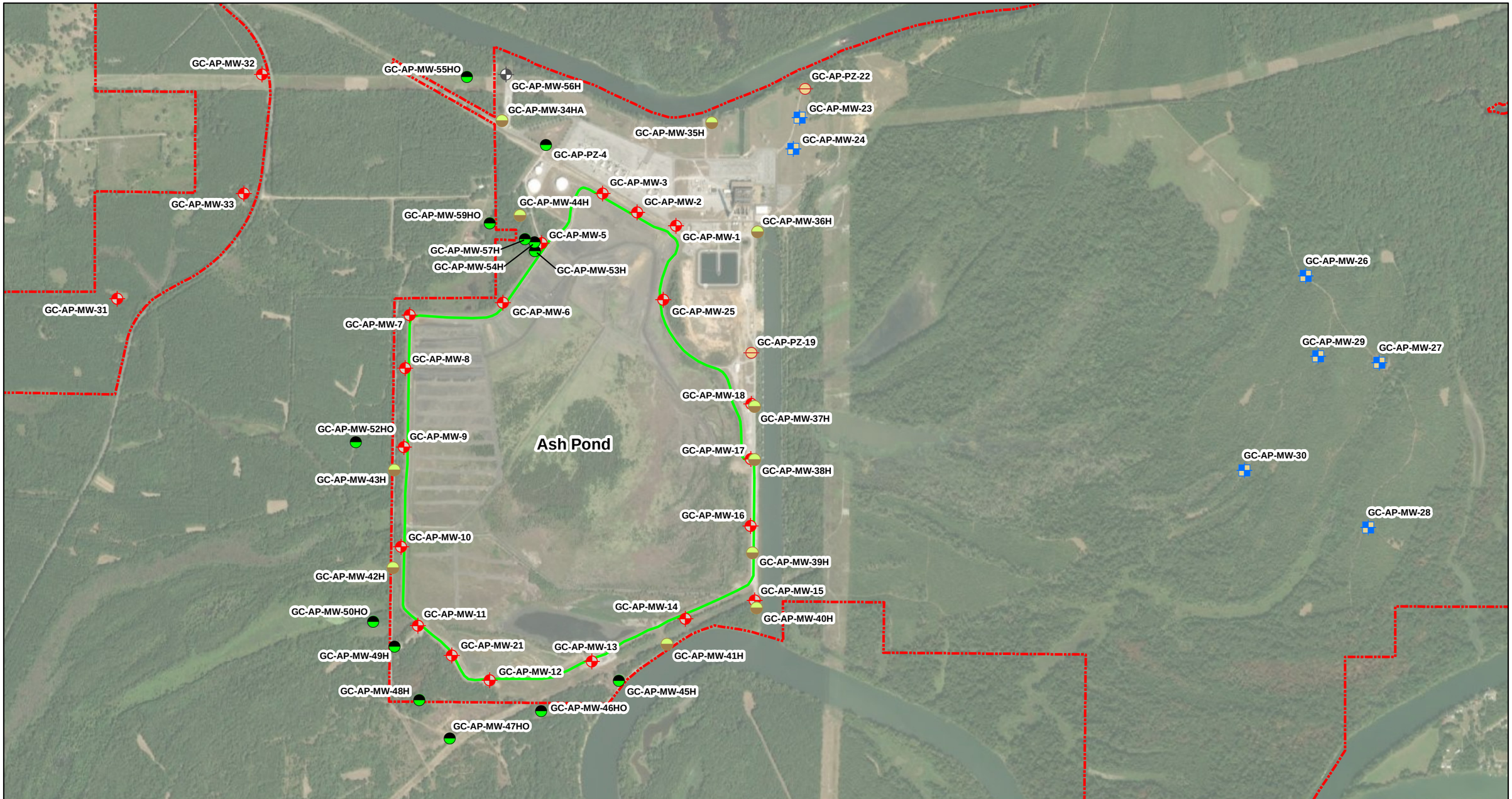
DRAWING TITLE

GEOLOGIC CROSS SECTION F - F'
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 4F

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer
- Phase I Horizontal Delineation Well
- Phase II Horizontal Delineation Well
- Abandoned Monitoring Well
- Ash Pond Boundary
- Property Boundary

N

0 1,000 2,000 4,000 Feet

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	9/18/2020
DRAWN BY	KWR
CHECKED BY	GBD

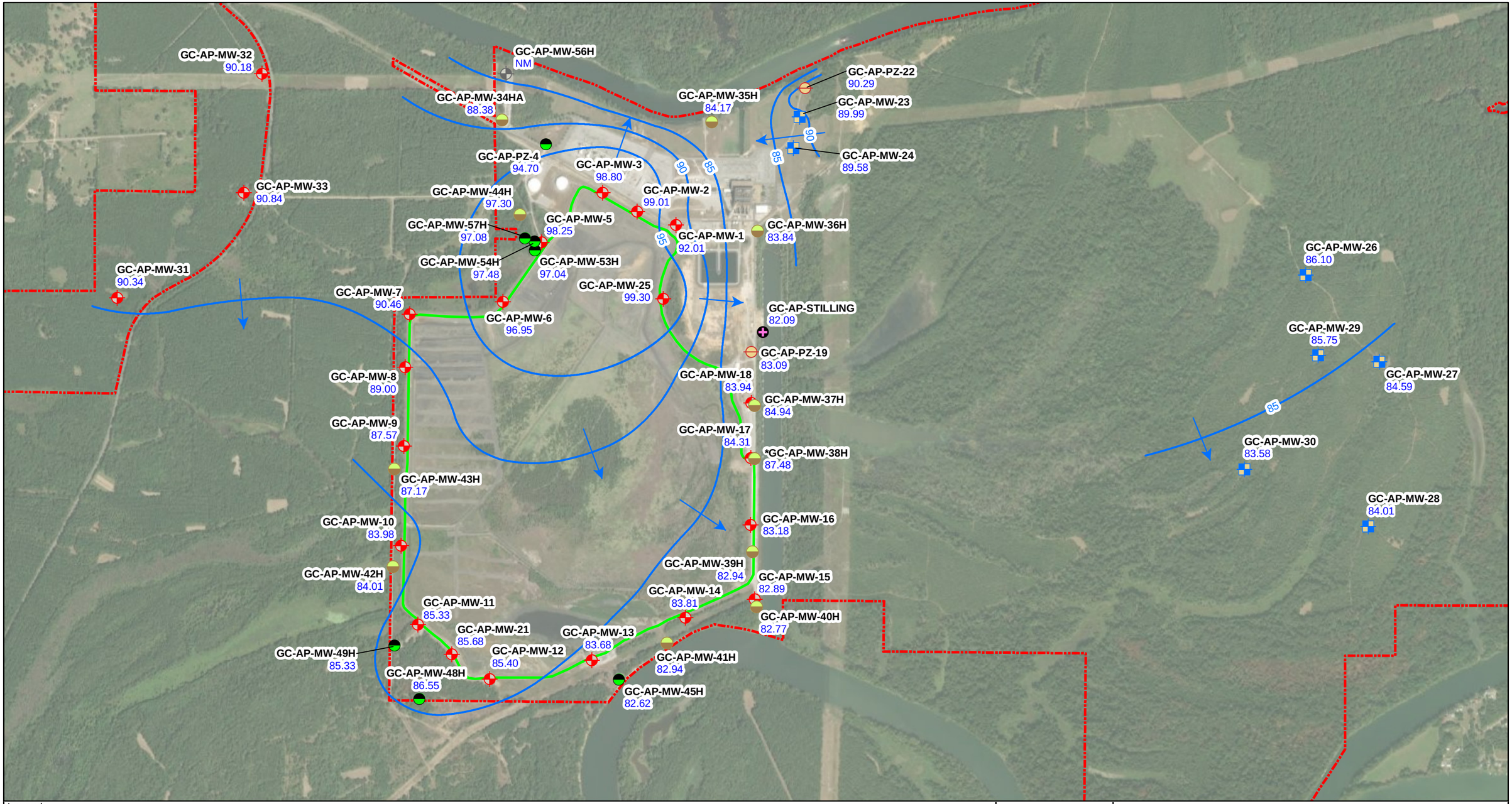
DRAWING TITLE

MONITORING WELL LOCATION MAP
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 5

Southern Company



Legend

- Ash Pond Boundary
- Property Boundary
- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer
- **GC-AP-MW-7** Well ID
- 90.46 Groundwater Elevation (ft NAVD88)
- Phase I Horizontal Delineation Well
- Phase II Horizontal Delineation Well
- Stilling Piezometer
- Abandoned Well
- Approximate Water Level Contour
- Approximate Groundwater Flow Direction

N

0 1,000 2,000 4,000 Feet

NOTES:
1. NM indicates not measured due to flooding.
2. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
3. Stilling Piezometer elevation measured within barge canal.
4. *GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.

SCALE	1:15000
DATE	10/28/2020
DRAWN BY	KAR
CHECKED BY	GBD

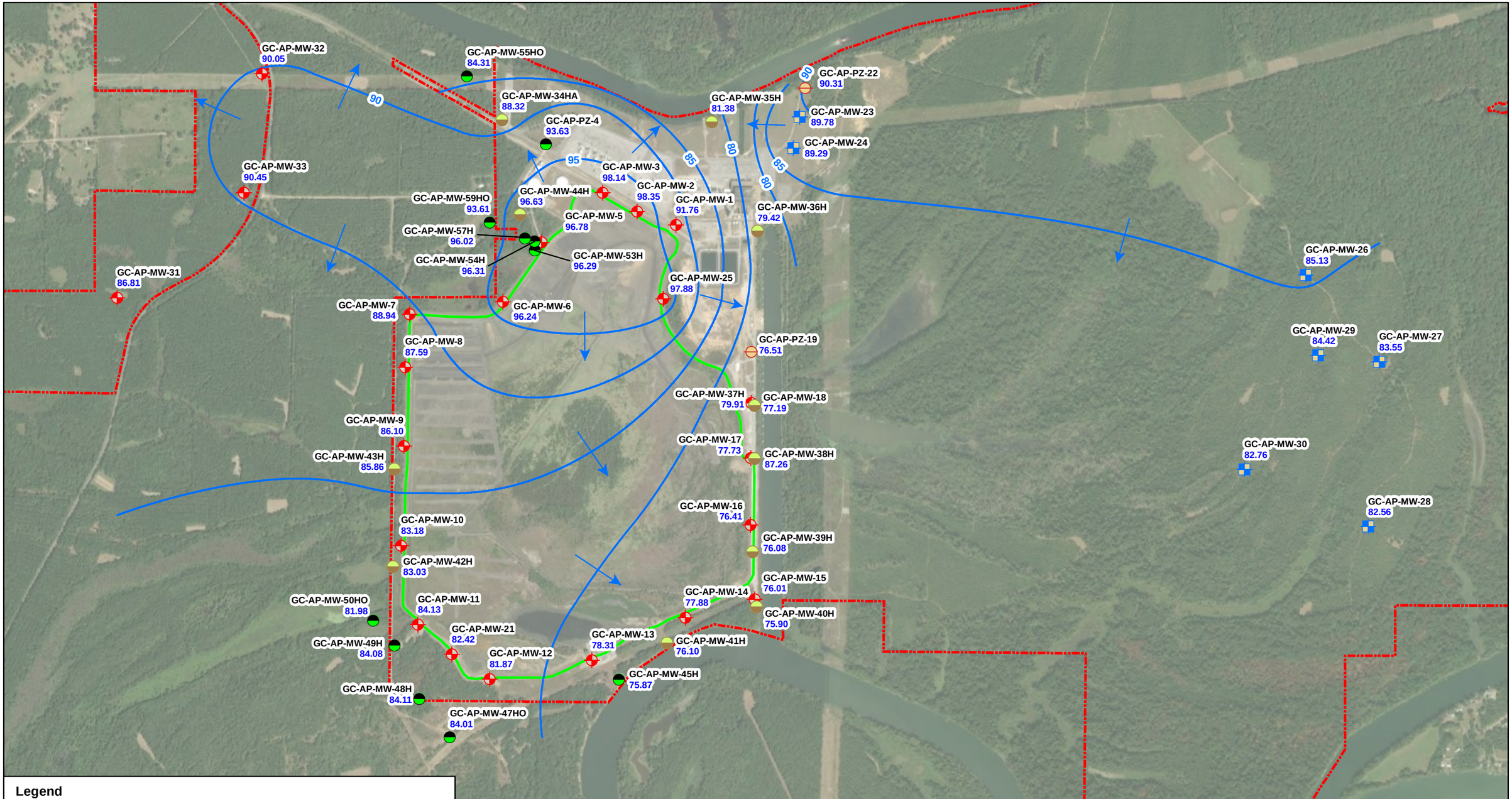
DRAWING TITLE

POTENTIOMETRIC SURFACE MAP
APRIL 20, 2020
PLANT GREENE COUNTY ASH POND

FIGURE NO

FIGURE 6A

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer
- Phase I Horizontal Delineation Well
- Phase II Horizontal Delineation Well
- Abandoned Monitoring Well
- Approximate Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- Property Boundary

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

N

0 1,000 2,000 4,000 Feet

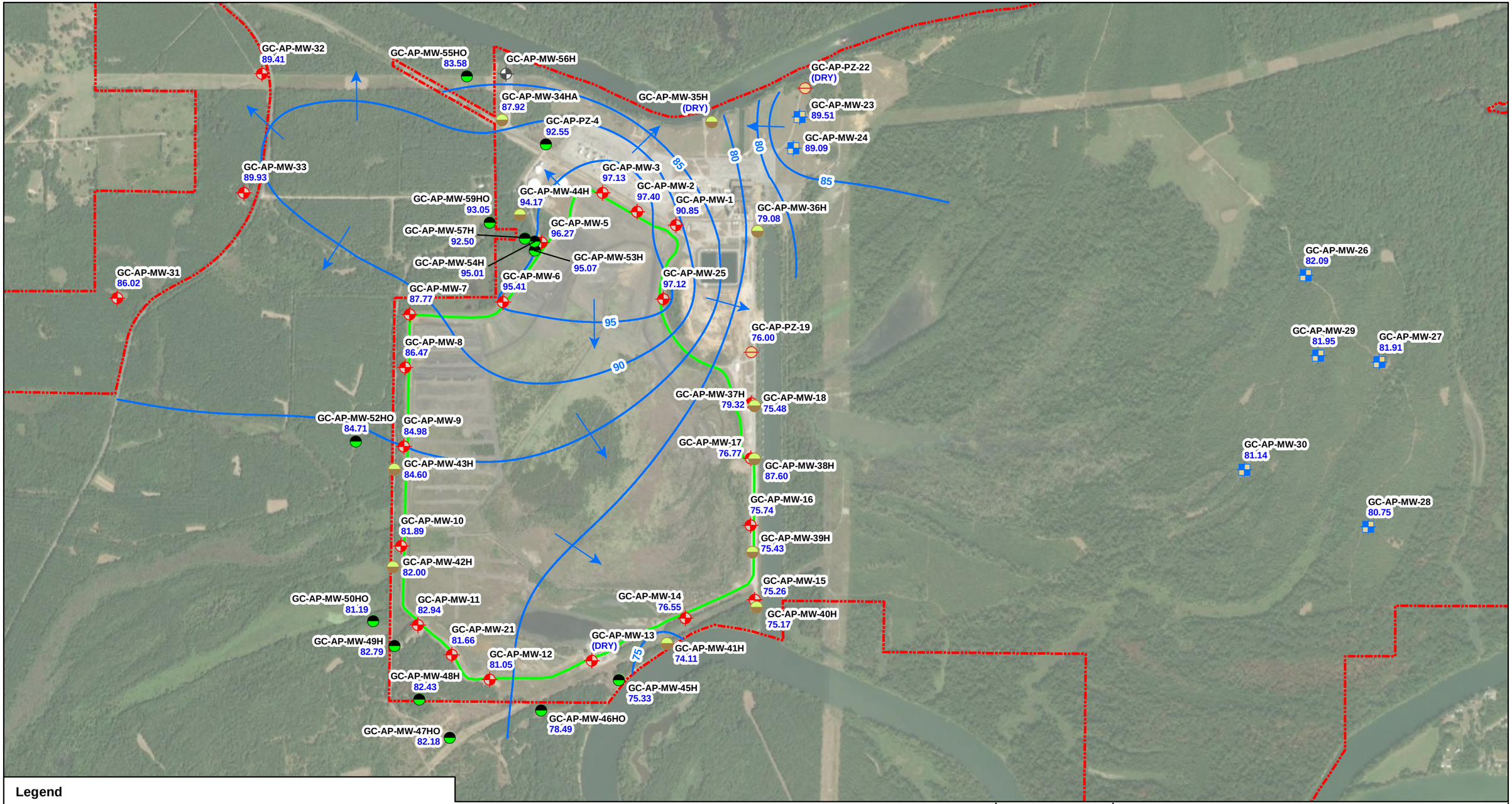
NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
2. *GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.

SCALE	1:15000
DATE	10/28/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
MAY 28, 2020
PLANT GREENE COUNTY ASH POND

FIGURE NO
FIGURE 6B

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer
- Phase I Horizontal Delineation Well
- Phase II Horizontal Delineation Well
- Abandoned Monitoring Well
- Approximate Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- Property Boundary

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

N

0 1,000 2,000 4,000 Feet

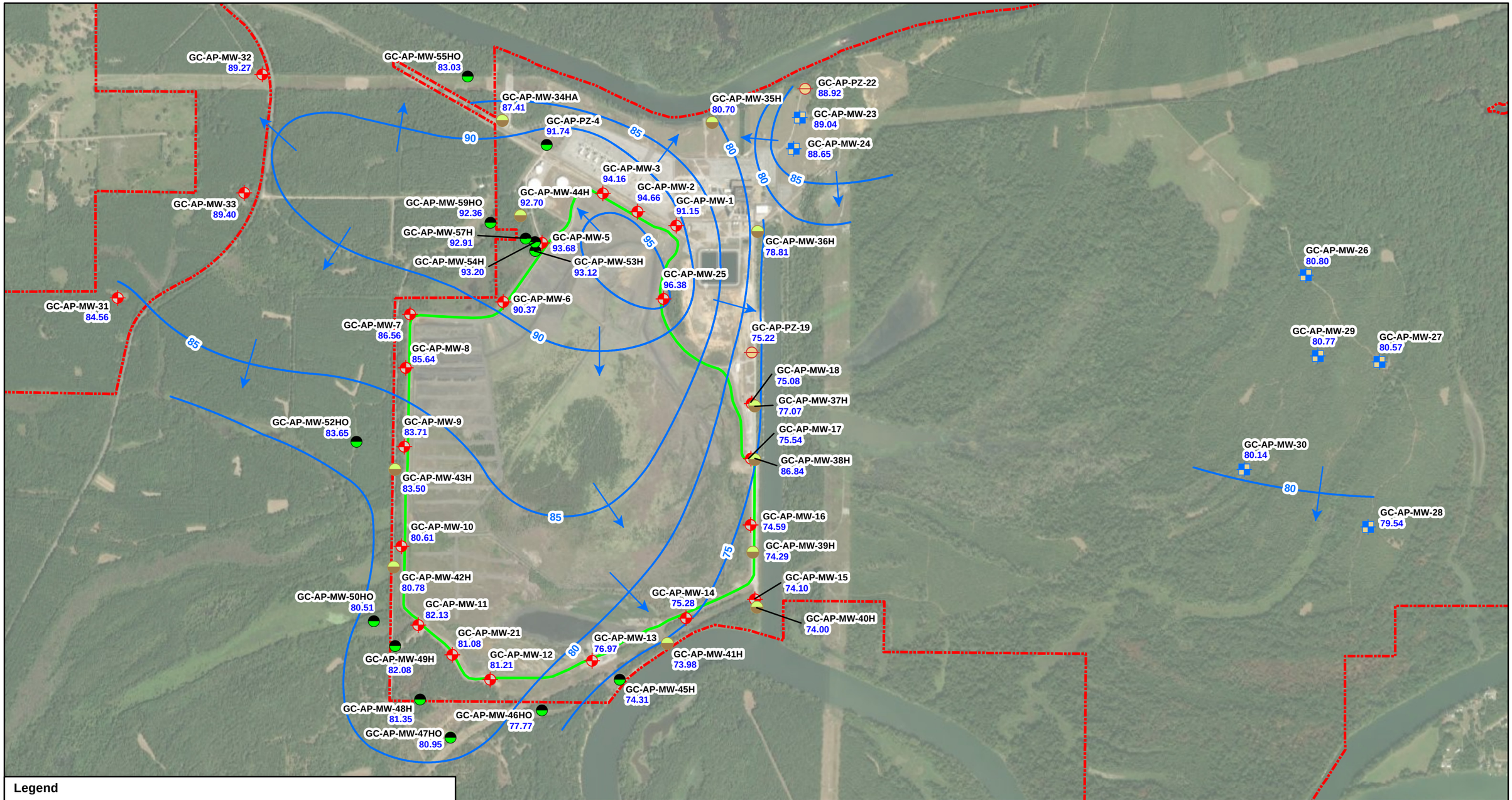
NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
2. *GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.

SCALE	1:15000
DATE	10/28/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
JUNE 30, 2020
PLANT GREENE COUNTY ASH POND

FIGURE NO
FIGURE 6C

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Piezometer
- Phase I Horizontal Delineation Well
- Phase II Horizontal Delineation Well
- Abandoned Monitoring Well
- Approximate Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- Property Boundary

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

N

0 1,000 2,000 4,000 Feet

NOTES: 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
2. *GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.

SCALE	1:15000
DATE	11/24/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE
POTENTIOMETRIC SURFACE CONTOUR MAP
AUGUST 10, 2020
PLANT GREENE COUNTY ASH POND

FIGURE NO
FIGURE 6D

Southern Company

Tables

Table 1.
Groundwater Monitoring Well Network Details

Well Name	Purpose	Installation Date	Northing	Easting	Ground Elevation	Top of Casing Elevation	Well Depth (ft.) Below Top of Casing	Top of Screen Elevation (ft MSL)	Bottom of Screen Elevation (ft MSL)	Screen Length
GC-AP-MW-1	Downgradient	8/26/2015	946143.297	1880857.028	104.22	107.79	29.14	88.25	78.25	10
GC-AP-MW-2	Downgradient	8/26/2015	946323.533	1880347.563	103.16	106.14	23.68	92.06	82.06	10
GC-AP-MW-3	Downgradient	5/7/2013	946568.571	1879894.379	103.51	106.39	27.00	88.99	78.99	10
GC-AP-PZ-4	Horizontal Delineation	5/7/2013	947204.503	1879154.956	100.47	103.53	27.60	85.53	75.53	10
GC-AP-MW-5	Downgradient	8/25/2015	945917.84	1879095.668	105.71	108.43	27.08	90.95	80.95	10
GC-AP-MW-6	Downgradient	8/25/2015	945140.014	1878584.369	98.42	102.05	30.30	81.35	71.35	10
GC-AP-MW-7	Downgradient	5/7/2013	944977.22	1877360.868	95.51	98.56	32.12	76.04	66.04	10
GC-AP-MW-8	Downgradient	8/24/2015	944277.569	1877304.053	93.75	97.11	30.55	76.16	66.16	10
GC-AP-MW-9	Downgradient	5/8/2013	943241.947	1877284.987	90.23	93.19	32.42	70.37	60.37	10
GC-AP-MW-10	Downgradient	9/2/2015	941932.77	1877248.652	85.51	87.84	25.75	71.69	61.69	10
GC-AP-MW-11	Downgradient	4/23/2013	940897.093	1877469.456	97.51	101.18	38.38	72.40	62.40	10
GC-AP-MW-12	Downgradient	8/24/2015	940182.457	1878412.554	100.09	103.26	36.90	75.96	65.96	10
GC-AP-MW-13	Downgradient	4/24/2013	940427.172	1879753.177	97.43	101.18	28.71	82.07	72.07	10
GC-AP-MW-14	Downgradient	8/24/2015	940990.747	1880984.277	83.31	85.61	22.85	72.36	62.36	10
GC-AP-MW-15	Downgradient	8/27/2015	941232.938	1881890.796	89.49	91.69	41.03	60.26	50.26	10
GC-AP-MW-16	Downgradient	8/21/2015	942209.932	1881836.389	106.16	108.79	48.81	69.58	59.58	10
GC-AP-MW-17	Downgradient	8/27/2015	943088.05	1881839.487	103.60	106.40	49.84	66.16	56.16	10
GC-AP-MW-18	Downgradient	8/21/2015	943810.042	1881850.596	102.02	105.04	48.13	66.51	56.51	10
GC-AP-PZ-19	Piezometer	8/20/2015	944479.233	1881851.126	101.70	104.91	39.40	75.11	65.11	10
GC-AP-MW-21	Downgradient	12/14/2015	940504.687	1877916.557	101.00	105.72	40.52	74.80	64.80	10
GC-AP-PZ-22	Piezometer	15/15/2015	947943.764	1882552.062	101.40	104.64	15.00	96.40	86.40	10
GC-AP-MW-23	Upgradient	12/16/2015	947563.622	1882483.407	99.50	102.64	18.50	93.74	83.74	10
GC-AP-MW-24	Upgradient	5/6/2013	947157.67	1882400.523	102.94	106.05	23.20	92.45	82.45	10
GC-AP-MW-25	Downgradient	6/28/2016	945178.001	1880692.084	101.94	104.98	37.18	77.40	67.40	10
GC-AP-MW-26	Upgradient	6/28/2016	945491.521	1889126.188	86.14	89.25	34.55	64.30	54.30	10
GC-AP-MW-27	Upgradient	6/29/2016	944352.66	1890091.17	87.82	90.68	37.86	62.42	52.42	10
GC-AP-MW-28	Upgradient	6/29/2016	942188.44	1889945.138	85.66	89.36	33.45	65.51	55.51	10
GC-AP-MW-29	Upgradient	6/29/2016	944432.295	1889286.831	86.63	89.32	34.68	64.24	54.24	10
GC-AP-MW-30	Upgradient	7/8/2016	942940.257	1888318.033	87.31	89.87	35.18	64.29	54.29	10
GC-AP-MW-31	Downgradient	7/8/2016	945189.051	1873522.273	90.93	94.19	31.96	71.83	61.83	10
GC-AP-MW-32	Downgradient	7/8/2016	948130.051	1875422.344	102.90	105.85	37.51	77.94	67.94	10
GC-AP-MW-33	Downgradient	7/8/2016	946573.583	1875185.048	106.23	108.99	33.10	85.49	75.49	10

Notes:

1. Northing and easting are in feet relative to the State Plane Alabama West North America Datum of 1983.
2. Elevations are in feet relative to the North American vertical Datum of 1988.
3. *Piezometers are utilized for water level readings only.
4. Top of screen and bottom of screen elevations are calculated relative to Top of Casing elevation and less the well sump length of 0.3' or 0.4’.

Table 1.
Groundwater Monitoring Well Network Details

Well Name	Purpose	Installation Date	Northing	Easting	Ground Elevation	Top of Casing Elevation	Well Depth (ft.) Below Top of Casing	Top of Screen Elevation (ft MSL)	Bottom of Screen Elevation (ft MSL)	Screen Length
GC-AP-MW-34HA	Horizontal Delineation	1/9/2019	947527.514	1878573.474	105.35	108.38	25.56	92.42	82.42	10
GC-AP-MW-35H	Horizontal Delineation	12/21/2018	947503.629	1881329.531	99.54	102.64	23.90	88.34	78.34	10
GC-AP-MW-36H	Horizontal Delineation	1/10/2019	946066.326	1881926.925	103.18	105.17	30.33	84.44	74.44	10
GC-AP-MW-37H	Horizontal Delineation	12/17/2018	943774.159	1881890.078	103.22	106.04	30.40	85.24	75.24	10
GC-AP-MW-38H	Horizontal Delineation	12/18/2018	943075.287	1881889.095	103.49	106.58	25.40	90.78	80.78	10
GC-AP-MW-39H	Horizontal Delineation	12/18/2018	941854.434	1881862.398	106.97	109.89	53.55	65.94	55.94	10
GC-AP-MW-40H	Horizontal Delineation	12/19/2018	941130.296	1881916.855	84.52	87.53	32.26	64.87	54.87	10
GC-AP-MW-41H	Horizontal Delineation	12/19/2018	940656.171	1880742.428	82.92	86.57	30.40	65.77	55.77	10
GC-AP-MW-42H	Horizontal Delineation	12/20/2018	941659.124	1877146.453	84.86	87.56	24.90	72.26	62.26	10
GC-AP-MW-43H	Horizontal Delineation	12/20/2018	942943.704	1877162.694	89.35	91.76	28.40	72.96	62.96	10
GC-AP-MW-44H	Horizontal Delineation	1/10/2019	946279.463	1878811.348	98.76	101.13	27.38	83.35	73.35	10
GC-AP-MW-45H	Horizontal Delineation	12/7/2019	940178.312	1880113.216	92.20	95.14	37.50	67.24	57.24	10
GC-AP-MW-48H	Horizontal Delineation	12/6/2019	939921.698	1877492.233	86.99	90.11	22.24	72.47	67.47	5
GC-AP-MW-49H	Horizontal Delineation	12/6/2019	940621.763	1877164.675	88.86	91.71	27.20	74.11	64.11	10
GC-AP-MW-53H	Horizontal Delineation	12/5/2019	945816.351	1879005.701	99.45	102.31	17.53	89.38	84.38	5
GC-AP-MW-54H	Horizontal Delineation	12/5/2019	945929.426	1879001.504	99.81	102.94	16.92	90.62	85.62	5
GC-AP-MW-56H	Abandoned	12/8/2019	948135.247	1878630.163	102.25	105.24	24.45	85.39	80.39	5
GC-AP-MW-57H	Horizontal Delineation	12/9/2019	945973.855	1878878.031	97.65	100.43	15.55	89.48	84.48	5
GC-AP-MW-47HO	Horizontal Delineation	5/13/2020	939420.249	1877891.782	90.39	93.86	27.35	73.51	63.51	10
GC-AP-MW-50HO	Horizontal Delineation	5/13/2020	940950.849	1876885.636	85.31	88.92	33.90	64.72	54.72	10
GC-AP-MW-55H0	Horizontal Delineation	5/15/2020	948102.312	1878117.661	110.83	114.37	43.50	80.57	70.57	10
GC-AP-MW-59HO	Horizontal Delineation	5/14/2020	946183.033	1878416.601	97.72	101.69	27.80	83.59	73.59	10
GC-AP-MW-46HO	Horizontal Delineation	6/15/2020	939776.736	1879092.003	90.34	93.35	26.10	76.85	66.85	10
GC-AP-MW-52HO	Horizontal Delineation	6/15/2020	943307.688	1876656.805	88.72	91.77	24.60	76.77	66.77	10

Notes:

1. Northing and easting are in feet relative to the State Plane Alabama West North America Datum of 1983.
2. Elevations are in feet relative to the North American vertical Datum of 1988.
3. *Piezometers are utilized for water level readings only.
4. Top of screen and bottom of screen elevations are calculated relative to Top of Casing elevation and less the well sump length of 0.3' or 0.4’.

Table 2.
Monitoring Parameters and Reporting Limits

Parameter	Analytical Method	Reporting Limit (Mg/L)
Appendix III Parameters		
Boron	EPA 200.7/200.8	0.05
Calcium	EPA 200.7/200.8	0.25
Chloride	EPA 300.0	2
Fluoride	EPA 300.0	0.1
pH	None	None
Sulfate	EPA 300.0	5
Total Dissolved Solids (TDS)	SM 2540C	5
Appendix IV Parameters		
Antimony	EPA 200.7/200.8	0.0025
Arsenic	EPA 200.7/200.8	0.00125
Barium	EPA 200.7/200.8	0.0025
Beryllium	EPA 200.7/200.8	0.0025
Cadmium	EPA 200.7/200.8	0.0025
Chromium	EPA 200.7/200.8	0.0025
Cobalt	EPA 200.7/200.8	0.0025
Fluoride	EPA 300.0	0.1
Lead	EPA 200.7/200.8	0.00125
Lithium	EPA 200.7/200.8	0.0025
Mercury	EPA 7470A	0.0002
Molybdenum	EPA 200.7/200.8	0.015
Selenium	EPA 200.7/200.8	0.00125
Thallium	EPA 200.7/200.8	0.0005
Radium 226 & 228 combined	EPA 9315/9320	1 pCi/L

Notes:

1. mg/L - Milligrams per liter

2. pCi/L - Picocuries per liter

Table 3.
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	6/27/2017	8/28/2017
GC-AP-MW-1	107.79	91.71	92.37	91.82	91.33	90.88	90.67	--	--	90.99	91.22	91.14	91.76	91.31
GC-AP-MW-2	106.14	100.75	100.88	99.97	99.94	99.46	99.30	--	--	100.40	100.08	99.62	100.00	98.97
GC-AP-MW-3	106.39	100.37	100.52	99.41	99.40	99.02	98.95	--	--	100.14	99.84	99.31	99.56	98.55
GC-AP-PZ-4	103.53	94.60	95.26	93.17	92.68	91.90	91.65	--	--	94.17	94.56	93.57	94.63	92.43
GC-AP-MW-5	108.43	100.46	100.96	98.30	98.29	97.16	96.77	--	--	100.68	100.41	98.87	99.77	96.90
GC-AP-MW-6	102.05	98.70	98.78	97.29	97.43	95.30	94.54	--	--	98.38	98.08	96.98	97.75	95.13
GC-AP-MW-7	98.56	92.12	92.51	90.50	90.10	87.24	86.29	--	--	91.64	91.60	90.35	91.34	87.79
GC-AP-MW-8	97.11	90.73	91.16	89.12	88.75	85.82	84.86	--	--	90.09	89.94	88.69	89.59	86.41
GC-AP-MW-9	93.19	89.55	89.88	88.03	87.66	84.74	83.73	--	--	89.18	88.98	87.46	88.64	85.05
GC-AP-MW-10	87.84	84.57	84.69	83.58	84.20	82.61	82.09	--	--	83.74	83.65	82.99	84.26	82.00
GC-AP-MW-11	101.18	86.37	86.58	85.77	85.52	84.30	83.92	--	--	84.90	84.66	84.25	85.26	83.76
GC-AP-MW-12	103.26	87.44	87.65	86.64	86.93	85.13	84.87	--	--	85.42	85.27	85.15	85.74	85.08
GC-AP-MW-13	101.18	83.23	83.50	81.94	82.18	80.46	80.00	--	--	80.53	81.11	80.80	84.35	80.73
GC-AP-MW-14	85.61	81.60	81.85	78.33	78.68	76.90	76.19	--	--	81.38	80.22	77.46	84.38	76.62
GC-AP-MW-15	91.69	77.93	78.29	74.64	74.74	74.04	73.83	--	--	78.63	78.13	75.00	83.64	74.42
GC-AP-MW-16	108.79	78.42	78.25	74.88	74.72	74.19	74.58	--	--	78.11	78.25	75.35	84.14	74.87
GC-AP-MW-17	106.40	78.70	78.75	74.62	74.48	73.78	73.61	--	--	78.30	78.05	75.01	83.48	74.45
GC-AP-MW-18	105.04	79.40	79.73	75.72	75.82	75.17	75.05	--	--	79.93	79.47	76.30	84.80	75.75
GC-AP-PZ-19	104.91	77.92	77.97	75.20	75.28	74.82	74.69	--	--	78.02	78.30	75.72	88.07	75.34
GC-AP-MW-21	105.72	84.55	84.69	83.72	84.18	82.20	81.95	--	--	82.68	82.35	82.15	82.84	82.01
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	91.84	91.72
GC-AP-MW-24	106.05	86.03	86.82	86.99	86.34	86.02	85.86	--	--	85.58	86.06	86.26	86.37	86.70
GC-AP-MW-25	104.98	86.38	86.29	84.51	85.05	83.48	82.79	--	--	85.66	85.42	84.35	86.20	83.87
GC-AP-MW-26	89.25	--	--	--	78.97	77.75	77.27	76.77	76.93	78.75	83.03	82.62	84.98	81.01
GC-AP-MW-27	90.68	--	--	--	77.49	76.31	75.86	75.34	75.53	76.94	80.17	80.74	82.75	79.35
GC-AP-MW-28	89.36	--	--	--	78.88	77.90	77.51	77.11	77.51	79.13	81.36	81.70	84.58	80.59
GC-AP-MW-29	89.32	--	--	--	83.77	82.65	82.20	81.62	81.62	83.00	86.44	87.10	89.66	85.73
GC-AP-MW-30	89.87	--	--	--	94.05	93.04	92.59	92.11	92.83	95.33	97.44	97.15	99.45	95.99
GC-AP-MW-31	94.19	--	--	--	98.01	96.76	90.22	96.06	97.09	99.05	101.65	100.88	103.35	98.66
GC-AP-MW-32	105.85	--	--	--	91.14	90.67	87.15	90.25	90.09	90.08	90.54	90.76	90.80	90.74
GC-AP-MW-33	108.99	--	--	--	84.10	83.43	92.59	82.83	82.64	83.04	83.69	84.85	84.84	84.58

Notes:

1. ft. AMSL - feet above mean sea level

2. -- Not Measured

Table 3.
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	6/27/2017	8/28/2017
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	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Table 3.
Groundwater Elevations Summary

Well Name	Top of Casing Elevation	Groundwater Elevation (ft)											
		2/26/2018	6/4/2018	9/10/2018	11/5/2018	3/25/2019	9/9/2019	12/16-17/2020	2/17/2020	4/20/2020	5/28/2020	6/30/2020	8/10/2020
GC-AP-MW-1	107.79	90.96	91.27	90.43	90.00	91.46	90.65	--	91.44	92.01	91.76	90.85	91.15
GC-AP-MW-2	106.14	99.78	99.29	98.90	98.83	99.67	97.66	--	99.15	99.01	98.35	97.40	94.66
GC-AP-MW-3	106.39	100.02	99.09	98.63	98.77	99.26	97.70	--	98.82	98.80	98.14	97.13	94.16
GC-AP-PZ-4	103.53	94.83	94.24	92.04	91.49	94.86	92.34	--	95.14	94.70	93.63	92.55	91.74
GC-AP-MW-5	108.43	100.86	99.30	97.19	96.00	99.21	96.17	--	99.10	98.25	96.78	96.27	93.68
GC-AP-MW-6	102.05	98.31	97.42	96.11	95.59	97.12	95.50	--	97.70	96.95	96.24	95.41	90.37
GC-AP-MW-7	98.56	92.00	91.05	88.18	87.67	90.75	89.00	--	91.40	90.46	88.94	87.77	86.56
GC-AP-MW-8	97.11	90.52	89.32	86.88	86.31	88.95	87.58	--	90.14	89.00	87.59	86.47	85.64
GC-AP-MW-9	93.19	89.66	88.30	85.48	85.14	88.02	86.24	--	89.29	87.57	86.10	84.98	83.71
GC-AP-MW-10	87.84	84.04	83.40	83.53	83.51	83.27	81.58	--	--	83.99	83.19	81.90	80.62
GC-AP-MW-11	101.18	84.97	84.87	84.43	84.09	85.01	82.34	--	88.74	85.33	84.13	82.94	82.13
GC-AP-MW-12	103.26	85.61	85.44	85.19	84.95	84.87	81.18	--	88.97	85.40	81.87	81.05	81.21
GC-AP-MW-13	101.18	82.18	81.64	80.53	80.12	81.88	77.68	--	88.64	83.68	78.31	Dry	76.97
GC-AP-MW-14	85.61	82.25	78.72	77.61	76.89	79.53	75.82	--	--	83.81	77.88	76.55	75.28
GC-AP-MW-15	91.69	79.93	75.90	75.07	74.75	76.55	74.16	--	--	82.89	76.01	75.26	74.10
GC-AP-MW-16	108.79	79.84	76.51	75.40	75.11	77.15	74.54	--	90.16	83.18	76.41	75.74	74.59
GC-AP-MW-17	106.40	79.75	76.01	75.97	74.83	76.73	74.07	--	90.92	84.31	77.73	76.77	75.54
GC-AP-MW-18	105.04	81.18	77.06	76.98	76.14	77.61	75.43	--	90.64	83.94	77.19	75.48	75.08
GC-AP-PZ-19	104.91	79.69	76.71	75.78	84.39	77.09	75.16	--	90.15	83.09	76.51	104.91	75.22
GC-AP-MW-21	105.72	82.55	82.45	82.16	81.93	82.62	78.33	--	89.01	85.68	82.42	81.66	81.08
GC-AP-PZ-22	104.64	--	--	--	--	--	--	--	90.24	90.29	90.31	Dry	88.92
GC-AP-MW-23	102.64	91.53	92.05	91.18	90.79	93.01	91.86	--	89.42	89.99	89.78	89.51	89.04
GC-AP-MW-24	106.05	86.12	85.16	86.22	85.71	87.93	86.86	--	88.68	89.58	89.29	89.09	88.65
GC-AP-MW-25	104.98	85.11	84.89	85.16	83.39	84.76	82.29	--	100.88	99.30	97.88	97.12	96.38
GC-AP-MW-26	89.25	85.57	83.44	79.43	78.74	83.84	79.48	--	--	86.10	85.13	82.09	80.80
GC-AP-MW-27	90.68	82.41	81.37	77.83	77.05	81.79	77.74	--	--	84.59	83.55	81.91	80.57
GC-AP-MW-28	89.36	83.40	82.30	79.18	78.48	82.96	79.11	--	--	84.01	82.56	80.75	79.54
GC-AP-MW-29	89.32	89.73	87.83	84.11	83.38	88.18	84.20	--	--	85.75	84.42	81.95	80.77
GC-AP-MW-30	89.87	98.86	97.66	94.82	93.91	97.82	95.41	--	--	83.58	82.76	81.14	80.14
GC-AP-MW-31	94.19	104.17	102.60	97.92	97.48	102.50	99.15	--	90.02	90.34	86.81	86.02	84.56
GC-AP-MW-32	105.85	90.38	91.27	90.57	90.29	92.13	91.41	--	89.21	90.18	90.05	89.41	89.27
GC-AP-MW-33	108.99	83.52	84.58	83.25	82.88	85.74	84.38	--	90.41	90.84	90.45	89.93	89.40

Notes:

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

Table 3.
Groundwater Elevations Summary

Well Name	Top of Casing Elevation	Groundwater Elevation (ft)											
		2/26/2018	6/4/2018	9/10/2018	11/5/2018	3/25/2019	9/9/2019	12/16-17/2020	2/17/2020	4/20/2020	5/28/2020	6/30/2020	8/10/2020
GC-AP-MW-34HA	108.38	--	--	--	--	--	86.26	--	86.75	88.38	88.32	87.92	87.41
GC-AP-MW-35H	102.64	--	--	--	--	--	80.56	--	90.91	84.17	81.38	Dry	80.70
GC-AP-MW-36H	105.17	--	--	--	--	--	78.64	--	90.80	83.84	79.42	79.08	78.81
GC-AP-MW-37H	106.04	--	--	--	--	--	76.95	--	90.67	84.94	79.91	79.32	77.07
GC-AP-MW-38H	106.58	--	--	--	--	--	86.98	--	90.50	87.48	87.26	87.60	86.84
GC-AP-MW-39H	109.89	--	--	--	--	--	74.41	--	89.99	82.94	76.08	75.43	74.29
GC-AP-MW-40H	87.53	--	--	--	--	--	74.08	--	--	82.77	75.90	75.17	74.00
GC-AP-MW-41H	86.57	--	--	--	--	--	74.09	--	--	82.94	76.10	74.11	73.98
GC-AP-MW-42H	87.56	--	--	--	--	--	81.15	--	--	84.01	83.03	82.00	80.78
GC-AP-MW-43H	91.76	--	--	--	--	--	85.86	--	--	87.17	85.86	84.60	83.50
GC-AP-MW-44H	101.13	--	--	--	--	--	93.79	--	97.19	97.30	96.63	94.17	92.70
GC-AP-MW-45H	95.14	--	--	--	--	--	--	77.34	89.46	82.62	75.87	75.33	74.32
GC-AP-MW-46HO	93.35	--	--	--	--	--	--	--	--	--	--	75.48	74.76
GC-AP-MW-47HO	93.86	--	--	--	--	--	--	--	--	--	80.54	78.71	77.48
GC-AP-MW-48H	90.11	--	--	--	--	--	--	81.86	--	86.55	84.11	82.43	81.35
GC-AP-MW-49H	91.71	--	--	--	--	--	--	82.68	89.22	85.33	84.08	82.79	82.08
GC-AP-MW-50HO	88.92	--	--	--	--	--	--	--	--	--	78.37	77.58	76.90
GC-AP-MW-52HO	91.77	--	--	--	--	--	--	--	--	--	--	81.66	80.60
GC-AP-MW-53H	102.31	--	--	--	--	--	--	96.52	97.40	97.04	96.29	95.07	93.12
GC-AP-MW-54H	102.94	--	--	--	--	--	--	95.54	97.71	97.48	96.31	95.01	93.20
GC-AP-MW-55H0	114.37	--	--	--	--	--	--	--	--	--	80.77	80.04	79.49
GC-AP-MW-57H	100.43	--	--	--	--	--	--	95.03	96.97	97.08	96.02	92.50	92.91
GC-AP-MW-59HO	101.69	--	--	--	--	--	--	--	--	--	89.64	89.08	88.39

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

Table 4.
Horizontal Groundwater Flow Velocity Calculation

SA01 2020								
Date	**MW-25** h_1 **(ft)**	**MW-18** h_2 **(ft)**	**Distance** **Δl (ft)**	**Hydraulic Gradient** **Δh/Δl (ft/ft)**	**Hydraulic Conductivity** **K**	**Effective Porosity** **n**	**Calculated Groundwater Flow Velocity (ft/d)**	**Calculated Groundwater Flow Velocity (ft/yr)**
4/20/2020	99.30	83.94	1815.0	0.00846	51.93	0.25	1.76	641.6

Date	**MW-6** h_1 **(ft)**	**MW-7** h_2 **(ft)**	**Distance** **Δl (ft)**	**Hydraulic Gradient** **Δh/Δl (ft/ft)**	**Hydraulic Conductivity** **K**	**Effective Porosity** **n**	**Calculated Groundwater Flow Velocity (ft/d)**	**Calculated Groundwater Flow Velocity (ft/yr)**
4/20/2020	96.95	90.46	1230.0	0.00528	51.93	0.25	1.10	400.0

SA02 2020								
Date	**MW-25** h_1 **(ft)**	**MW-18** h_2 **(ft)**	**Distance** **Δl (ft)**	**Hydraulic Gradient** **Δh/Δl (ft/ft)**	**Hydraulic Conductivity** **K**	**Effective Porosity** **n**	**Calculated Groundwater Flow Velocity (ft/d)**	**Calculated Groundwater Flow Velocity (ft/yr)**
8/10/2020	96.38	75.08	1815.0	0.01174	51.93	0.25	2.44	889.8

Date	**MW-6** h_1 **(ft)**	**MW-7** h_2 **(ft)**	**Distance** **Δl (ft)**	**Hydraulic Gradient** **Δh/Δl (ft/ft)**	**Hydraulic Conductivity** **K**	**Effective Porosity** **n**	**Calculated Groundwater Flow Velocity (ft/d)**	**Calculated Groundwater Flow Velocity (ft/yr)**
8/10/2020	90.37	85.56	1230.0	0.00391	51.93	0.25	0.81	296.5

Notes:
ft=feet
ft/d = feet/day
ft/ft = feet per foot
ft/yr = feet per year

Table 5.
Relative Percent Difference Calculations

2020 1st Semi-Annual Monitoring Event				
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-1	**GC-AP-MW-1DUP**	
Boron	mg/L	0.347	0.348	0.3
Calcium	mg/L	90.5	84.8	6.5
Chloride	mg/L	19.5	19.6	0.5
Fluoride	mg/L	0.120	0.0966	21.6
Sulfate	mg/L	874	870	0.5
TDS	mg/L	1530	1540	0.7
Arsenic	mg/L	0.0219	0.0226	3.1
Barium	mg/L	0.0206	0.0203	1.5
Cobalt	mg/L	0.206	0.196	5.0
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-7	**GC-AP-MW-7 DUP**	
Boron	mg/L	0.793	0.803	1.3
Calcium	mg/L	155	156	0.6
Chloride	mg/L	66.2	64.1	3.2
Fluoride	mg/L	0.0951	0.0985	3.5
Sulfate	mg/L	318	316	0.6
TDS	mg/L	1010	1030	2.0
Barium	mg/L	0.0762	0.0759	0.4
Cobalt	mg/L	0.00206	0.00207	0.5
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-24	**GC-AP-MW-24 DUP**	
Calcium	mg/L	31.4	32.8	4.4
Chloride	mg/L	2.75	2.8	1.8
Sulfate	mg/L	84.7	87.3	3.0
TDS	mg/L	162	163	0.6
Barium	mg/L	0.0738	0.0769	4.1
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-45H	**GC-AP-MW-45H DUP**	
Boron	mg/L	0.426	0.425	0.2
Calcium	mg/L	64.9	64.9	0.0
Chloride	mg/L	10.9	10.9	0.0
Fluoride	mg/L	0.176	0.187	6.1
Sulfate	mg/L	157	144	8.6
TDS	mg/L	369	371	0.5
Arsenic	mg/L	0.00153	0.00142	7.5
Barium	mg/L	0.0898	0.0877	2.4
Cobalt	mg/L	0.00451	0.00439	2.7
Lithium	mg/L	0.148	0.147	0.7
Molybdenum	mg/L	0.0703	0.0696	1.0
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-54H	**GC-AP-MW-54H DUP**	
Boron	mg/L	0.626	0.629	0.5
Calcium	mg/L	98.8	100	1.2
Chloride	mg/L	9.74	9.78	0.4
Fluoride	mg/L	0.250	0.244	2.4
Sulfate	mg/L	242	234	3.4
TDS	mg/L	545	550	0.9
Arsenic	mg/L	0.410	0.414	1.0
Barium	mg/L	0.259	0.264	1.9
Cobalt	mg/L	0.0203	0.0202	0.5
Lithium	mg/L	0.101	0.101	0.0
Molybdenum	mg/L	0.00223	0.00223	0.0

Table 5.
Relative Percent Difference Calculations

2020 2nd Semi-Annual Monitoring Event				
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-1	**GC-AP-MW-1DUP**	
Boron	mg/L	0.496	0.494	0.4
Calcium	mg/L	81.5	82.2	0.9
Chloride	mg/L	23.2	24.6	5.9
Fluoride	mg/L	0.115	0.0870	27.7
Sulfate	mg/L	919	907	1.3
TDS	mg/L	1590	1620	1.9
Arsenic	mg/L	0.0265	0.0262	1.1
Barium	mg/L	0.0218	0.0226	3.6
Cobalt	mg/L	0.195	0.199	2.0
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-12	**GC-AP-MW-12 DUP**	
Boron	mg/L	0.748	0.752	0.5
Calcium	mg/L	42.9	41.1	4.3
Chloride	mg/L	6.46	6.74	4.2
Fluoride	mg/L	0.223	0.223	0.0
Sulfate	mg/L	89	92.9	4.3
TDS	mg/L	250	260	3.9
Barium	mg/L	0.021	0.0215	2.4
Lithium	mg/L	0.0892	0.0895	0.3
Molybdenum	mg/L	0.0938	0.0948	1.1
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-26	**GC-AP-MW-26 DUP**	
Calcium	mg/L	4.58	4.42	3.6
Chloride	mg/L	2.16	2.18	0.9
Sulfate	mg/L	9.57	8.89	7.4
TDS	mg/L	42	42	0.0
Barium	mg/L	0.0409	0.0429	4.8
Cobalt	mg/L	0.00279	0.00242	14.2
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-40H	**GC-AP-MW-40H DUP**	
Boron	mg/L	0.807	0.812	0.6
Calcium	mg/L	115	115	0.0
Chloride	mg/L	8.49	8.34	1.8
Fluoride	mg/L	0.144	0.145	0.7
Sulfate	mg/L	288	285	1.0
TDS	mg/L	588	586	0.3
Barium	mg/L	0.0295	0.0273	7.7
Cobalt	mg/L	0.00717	0.00713	0.6
Lithium	mg/L	0.669	0.658	1.7
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-57H	**GC-AP-MW-57H DUP**	
Boron	mg/L	0.338	0.342	1.2
Calcium	mg/L	79.1	79	0.1
Chloride	mg/L	6.3	6.25	0.8
Fluoride	mg/L	0.165	0.176	6.5
Sulfate	mg/L	274	260	5.2
TDS	mg/L	491	499	1.6
Arsenic	mg/L	0.0467	0.0467	0.0
Barium	mg/L	0.0796	0.0809	1.6
Cobalt	mg/L	0.0857	0.0859	0.2

Table 5.
Relative Percent Difference Calculations

2020 2nd Semi-Annual Monitoring Event				
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-46HO	**GC-AP-MW-46HO DUP**	
Boron	mg/L	0.252	0.25	0.8
Calcium	mg/L	57.8	56.9	1.6
Chloride	mg/L	4.27	4.10	4.1
Fluoride	mg/L	0.169	0.164	3.0
Sulfate	mg/L	54.5	53.4	2.0
TDS	mg/L	258	260	0.8
Barium	mg/L	0.0653	0.0673	3.0
Lithium	mg/L	0.0970	0.0979	0.9
Molybdenum	mg/L	0.0443	0.0428	3.4
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-52HO	**GC-AP-MW-52HO DUP**	
Boron	mg/L	1.25	1.25	0.0
Calcium	mg/L	73.1	71.5	2.2
Chloride	mg/L	87.4	89.4	2.3
Fluoride	mg/L	0.0762	0.0627	19.4
Sulfate	mg/L	64.1	65.5	2.2
TDS	mg/L	462	448	3.1
Barium	mg/L	0.116	0.116	0.0
Cobalt	mg/L	0.0129	0.0133	3.1
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-59HO	**GC-AP-MW-59HO DUP**	
Boron	mg/L	0.209	0.209	0.0
Calcium	mg/L	76.7	76.5	0.3
Chloride	mg/L	12.1	12.3	1.6
Fluoride	mg/L	0.137	0.110	21.9
Sulfate	mg/L	206	207	0.5
TDS	mg/L	407	411	1.0
Barium	mg/L	0.0909	0.0902	0.8
Cobalt	mg/L	0.0220	0.0220	0.0

Table 6.
Summary of Background Levels and Groundwater Protection Standards

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
Combined Radium-226/228	pCi/L	1.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	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

Notes:

1. mg/L - Milligrams per liter

2. pCi/L - Picocuries per liter

3. The background limits were used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and ADEM Rule 335-13-15-.06(h).

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		Field Parameters					APPENDIX III			
WELL	**SAMPLE DATE**	**DO**	**ORP**	**Temperature**	**Conductivity**	**Turbidity**	**Boron**	**Calcium**	**Chloride**	**Fluoride**
UNITS		**mg/L**	**mv**	**C**	**uS/cm**	**NTU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-1	**4/21/2020**	0.63	23.91	19.11	1623.14	0.70	0.347	90.5	19.5	0.12
GC-AP-MW-2	**4/21/2020**	0.45	-10.65	19.54	1118.82	2.25	0.14	133	12.3	0.126
GC-AP-MW-3	**4/21/2020**	0.42	-40.68	19.78	485.37	0.68	Non-Detect	91.2	24.5	0.112
GC-AP-MW-5	**4/21/2020**	0.98	-70.01	20.31	763.59	3.38	0.72	93	12.3	0.224
GC-AP-MW-6	**4/21/2020**	0.40	131.74	19.84	1179.31	2.06	1.77	142	37.4	0.218
GC-AP-MW-7	**4/21/2020**	0.44	101.64	19.63	1484.22	2.08	0.793	155	66.2	0.0951(J)
GC-AP-MW-8	**4/21/2020**	0.48	136.95	19.47	1070.25	2.06	1.89	84.8	69.5	0.114
GC-AP-MW-9	**4/21/2020**	0.45	-33.19	20.12	922.09	2.08	1.27	111	24.2	0.181
GC-AP-MW-10	**4/21/2020**	0.95	-21.38	20.48	422.35	3.19	1.23	62.9	17.6	0.224
GC-AP-MW-11	**4/21/2020**	0.87	34.55	20.80	415.21	0.53	0.447	36.7	20.5	0.167
GC-AP-MW-12	**4/21/2020**	0.72	14.07	17.64	464.27	0.60	0.872	51	9.49	0.198
GC-AP-MW-13	**4/21/2020**	1.77	82.51	17.24	348.63	2.49	0.642	40.3	4.7	0.0844(J)
GC-AP-MW-14	**4/21/2020**	0.45	-45.17	19.66	1037.01	9.33	1.55	113	14.8	0.254
GC-AP-MW-15	**4/21/2020**	0.50	60.49	19.02	601.31	2.52	0.791	61	12	0.14
GC-AP-MW-16	**4/21/2020**	0.20	-35.71	19.30	832.49	9.86	1.83	90.8	12.1	0.245
GC-AP-MW-17	**4/21/2020**	0.18	-84.62	20.12	897.96	8.53	1.97	74.4	11.1	0.565
GC-AP-MW-18	**4/21/2020**	0.15	-36.73	19.90	798.13	4.91	1.51	81.8	26.3	0.171
GC-AP-MW-21	**4/21/2020**	0.16	46.37	21.66	421.26	0.86	0.586	43.1	10.1	0.173
GC-AP-MW-23	**4/21/2020**	5.79	155.11	18.37	170.50	3.03	Non-Detect	30.8	1.08	0.095(J)
GC-AP-MW-24	**4/21/2020**	5.24	197.48	18.88	236.17	2.97	Non-Detect	31.4	2.75	Non-Detect
GC-AP-MW-25	**4/21/2020**	0.41	153.30	20.13	311.11	3.20	0.104	11.3	17.1	Non-Detect
GC-AP-MW-26	**4/21/2020**	6.90	236.77	18.85	44.30	2.99	Non-Detect	3.83	2.04	Non-Detect
GC-AP-MW-27	**4/21/2020**	6.87	311.38	19.03	36.33	3.04	Non-Detect	1.15	1.9	Non-Detect
GC-AP-MW-28	**4/21/2020**	7.54	335.89	18.20	52.68	3.07	Non-Detect	2.41	1.32	Non-Detect
GC-AP-MW-29	**4/21/2020**	8.84	334.86	18.11	19.68	4.04	Non-Detect	0.287(J)	1.09	Non-Detect
GC-AP-MW-30	**4/21/2020**	4.61	321.96	18.51	29.29	2.46	Non-Detect	0.864	3.89	Non-Detect
GC-AP-MW-31	**4/21/2020**	1.19	236.36	17.16	67.64	0.45	Non-Detect	5.92	5.37	Non-Detect
GC-AP-MW-32	**4/21/2020**	4.46	208.59	19.15	71.57	0.54	Non-Detect	9.87	4	Non-Detect
GC-AP-MW-33	**4/21/2020**	6.35	308.54	17.68	103.98	0.33	Non-Detect	3.15	5.66	Non-Detect

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).

Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		Field Parameters					APPENDIX III			
WELL	**SAMPLE DATE**	**DO**	**ORP**	**Temperature**	**Conductivity**	**Turbidity**	**Boron**	**Calcium**	**Chloride**	**Fluoride**
UNITS		**mg/L**	**mv**	**C**	**uS/cm**	**NTU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-34HA	**4/22/2020**	1.98	268.37	20.44	164.68	0.50	Non-Detect	12	7.6	Non-Detect
GC-AP-MW-35H	**4/21/2020**	5.50	145.31	19.58	274.51	2.62	Non-Detect	47.3	3.62	0.16
GC-AP-MW-36H	**4/22/2020**	0.34	25.58	22.21	299.70	9.62	0.143	0.941	4.4	0.279
GC-AP-MW-37H	**4/22/2020**	0.52	-35.85	19.88	1242.68	7.69	0.186	175	10.3	0.197
GC-AP-MW-38H	**4/22/2020**	2.24	83.61	19.41	442.69	3.36	0.118	83.9	2.25	0.135
GC-AP-MW-39H	**4/22/2020**	0.24	-43.60	19.52	901.47	4.86	1.89	102	12.9	0.446
GC-AP-MW-40H	**4/20/2020**	0.18	137.58	18.01	807.17	4.86	0.821	88.2	10.8	0.0952(J)
GC-AP-MW-41H	**4/29/2020**	0.15	-34.95	18.99	520.34	6.08	0.699	70.8	16.1	0.0857(J)
GC-AP-MW-42H	**4/21/2020**	0.15	29.74	18.92	504.29	6.56	1.76	56.5	19.9	0.0701(J)
GC-AP-MW-43H	**4/21/2020**	0.20	-6.21	19.23	775.26	4.92	1.08	81.4	40.4	0.147
GC-AP-MW-44H	**4/20/2020**	0.05	38.69	17.55	913.74	5.72	0.2	167	12	0.0638(J)
GC-AP-MW-45H	**4/20/2020**	0.18	-100.98	21.02	622.05	4.07	0.426	64.9	10.9	0.176
GC-AP-MW-48H	**4/21/2020**	0.15	42.40	17.83	335.16	2.41	0.172	28.9	12.3	Non-Detect
GC-AP-MW-49H	**4/21/2020**	0.16	42.26	18.91	361.92	4.16	0.272	36.8	11.3	0.075(J)
GC-AP-MW-53H	**4/20/2020**	0.12	-49.30	18.88	695.21	5.45	0.309	93.1	23.9	0.154
GC-AP-MW-54H	**4/20/2020**	0.15	-94.69	18.17	746.90	6.88	0.626	98.8	9.74	0.25
GC-AP-MW-57H	**4/20/2020**	0.12	-45.63	17.48	661.52	2.97	0.252	69.5	7.88	0.189
GC-AP-PZ-4	**4/20/2020**	0.22	42.19	21.41	893.72	0.38	0.308	147	9.87	0.132
GC-AP-MW-47HO	**5/28/2020**	0.48	73.94	20.27	336.75	9.83	0.143	38.6	4.92	0.0647(J)
GC-AP-MW-50HO	**5/28/2020**	0.15	78.88	18.29	419.94	8.86	0.343	40.1	13.4	0.138
GC-AP-MW-55HO	**5/28/2020**	5.13	264.00	19.08	96.97	9.92	0.0435(J)	2.61	6.88	Non-Detect
GC-AP-MW-59HO	**5/28/2020**	0.18	81.83	17.85	598.08	9.91	0.208	72.4	12.1	0.0914(J)
GC-AP-MW-46HO	**7/6/2020**	0.24	151.49	20.37	399.51	2.30	0.274	51.1	4.5	0.185
GC-AP-MW-52HO	**7/6/2020**	0.21	112.53	19.09	791.16	7.46	1.2	75.6	103	0.0721(J)

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).

Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX III			APPENDIX IV					
WELL	**SAMPLE DATE**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**
UNITS		**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-1	**4/21/2020**	5.72	874	1530	Non-Detect	0.0219	0.0206	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	**4/21/2020**	5.99	522	878	Non-Detect	0.013	0.0335	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	**4/21/2020**	6.4	10.5	371	Non-Detect	0.00751	0.109	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-5	**4/21/2020**	6.5	163	494	Non-Detect	0.42	0.138	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	**4/21/2020**	6.54	153	742	Non-Detect	Non-Detect	0.0728	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	**4/21/2020**	6.39	318	1010	Non-Detect	Non-Detect	0.0762	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	**4/21/2020**	6.06	43.3	638	Non-Detect	Non-Detect	0.116	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	**4/21/2020**	6.25	133	578	Non-Detect	0.0102	0.175	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-10	**4/21/2020**	6.44	63.2	338	Non-Detect	0.0121	0.186	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-11	**4/21/2020**	6.26	58.7	249	Non-Detect	0.00616	0.0967	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-12	**4/21/2020**	6.96	121	291	Non-Detect	Non-Detect	0.0325	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-13	**4/21/2020**	6.68	76.5	201	0.00338	0.00181(J)	0.104	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-14	**4/21/2020**	6.31	168	628	Non-Detect	0.0178	0.102	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	**4/21/2020**	6.16	142	369	Non-Detect	Non-Detect	0.0338	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-16	**4/21/2020**	6.43	49.6	461	Non-Detect	0.105	0.0921	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-17	**4/21/2020**	6.61	78	490	Non-Detect	0.689	0.306	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	**4/21/2020**	6.31	19.2	429	Non-Detect	0.0478	0.0926	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-21	**4/21/2020**	6.81	99	265	Non-Detect	Non-Detect	0.0763	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	**4/21/2020**	6.26	10.2	107	Non-Detect	Non-Detect	0.0296	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	**4/21/2020**	5.3	84.7	162	Non-Detect	Non-Detect	0.0738	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	**4/21/2020**	5.26	76.1	195	Non-Detect	Non-Detect	0.11	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	**4/21/2020**	5.3	6.28	39.3	Non-Detect	Non-Detect	0.0439	0.000756(J)	Non-Detect	Non-Detect
GC-AP-MW-27	**4/21/2020**	4.29	2.21	30.7	Non-Detect	Non-Detect	0.0827	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	**4/21/2020**	4.07	9.4	36	Non-Detect	Non-Detect	0.219	Non-Detect	0.00052(J)	Non-Detect
GC-AP-MW-29	**4/21/2020**	3.9	0.694(J)	Non-Detect	Non-Detect	Non-Detect	0.0542	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	**4/21/2020**	4.44	Non-Detect	26.7	Non-Detect	Non-Detect	0.0485	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	**4/21/2020**	5.75	3.78	49.3	Non-Detect	Non-Detect	0.0285	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	**4/21/2020**	5.92	2.51	52.7	Non-Detect	Non-Detect	0.0133	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	**4/21/2020**	4.71	9.64	62.7	Non-Detect	Non-Detect	0.102	Non-Detect	Non-Detect	Non-Detect

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).

Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX III			APPENDIX IV					
WELL	**SAMPLE DATE**	**pH**	**Sulfate**	**TDS**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**
UNITS		**SU**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-34HA	**04-22-2020**	5.45	26.8	114	Non-Detect	Non-Detect	0.0578	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-35H	**04-21-2020**	6.54	44.5	176	Non-Detect	Non-Detect	0.0473	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-36H	**04-22-2020**	7.72	10.9	199	Non-Detect	0.00168(J)	0.0027(J)	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-37H	**04-22-2020**	6.23	510	977	Non-Detect	0.00768	0.0248	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-38H	**04-22-2020**	6.66	66.5	290	Non-Detect	Non-Detect	0.0607	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-39H	**04-22-2020**	6.42	31.7	512	Non-Detect	0.0533	0.192	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-40H	**04-20-2020**	5.63	247	534	Non-Detect	Non-Detect	0.0282	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-41H	**04-29-2020**	6.37	77.2	317	Non-Detect	0.00182(J)	0.0998	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-42H	**04-21-2020**	6.01	12.4	299	Non-Detect	0.00417(J)	0.108	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-43H	**04-21-2020**	6.18	59.7	463	Non-Detect	0.0101	0.156	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-44H	**04-20-2020**	6.11	429	790	Non-Detect	0.00215(J)	0.0594	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-45H	**04-20-2020**	7.14	157	369	Non-Detect	0.00153(J)	0.0898	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-48H	**04-21-2020**	6.5	90.2	208	Non-Detect	0.0021(J)	0.028	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-49H	**04-21-2020**	6.28	90.8	222	Non-Detect	Non-Detect	0.0437	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-53H	**04-20-2020**	6.17	14.7	441	Non-Detect	0.0806	0.278	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-54H	**04-20-2020**	6.58	242	545	Non-Detect	0.41	0.259	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-57H	**04-20-2020**	6.12	252	502	Non-Detect	0.0375	0.0771	Non-Detect	Non-Detect	Non-Detect
GC-AP-PZ-4	**04-20-2020**	5.99	482	824	Non-Detect	0.0029(J)	0.0801	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-47HO	**05-28-2020**	6.99	81.5	195	Non-Detect	Non-Detect	0.0267	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-50HO	**05-28-2020**	6.42	94.7	242	Non-Detect	Non-Detect	0.0701	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-55HO	**05-28-2020**	4.47	10.3	56.7	Non-Detect	Non-Detect	0.0389	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-59HO	**05-28-2020**	5.99	198	401	Non-Detect	0.00208(J)	0.127	0.000799(J)	Non-Detect	0.00515(J)
GC-AP-MW-46HO	**07-06-2020**	6.69	83.4	260	Non-Detect	Non-Detect	0.0613	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-52HO	**07-06-2020**	6.07	78.2	498	Non-Detect	Non-Detect	0.129	Non-Detect	0.000366(J)	Non-Detect

Notes:

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Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV								
WELL	**SAMPLE DATE**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
UNITS		**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-1	**4/21/2020**	0.206	0.712	0.12	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	**4/21/2020**	0.0194	0.663(U)	0.126	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	**4/21/2020**	0.00396(J)	0.899	0.112	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-5	**4/21/2020**	0.00601	0.882	0.224	Non-Detect	0.13	Non-Detect	0.00255(J)	Non-Detect	Non-Detect
GC-AP-MW-6	**4/21/2020**	0.00228(J)	0.679(U)	0.218	Non-Detect	0.0518	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	**4/21/2020**	0.00206(J)	0.549(U)	0.0951(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	**4/21/2020**	0.0111	1.09	0.114	Non-Detect	0.0582	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	**4/21/2020**	0.0166	1.31	0.181	Non-Detect	0.0693	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-10	**4/21/2020**	0.0233	1.11	0.224	Non-Detect	0.123	Non-Detect	0.00747(J)	Non-Detect	Non-Detect
GC-AP-MW-11	**4/21/2020**	0.0319	0.502(U)	0.167	Non-Detect	0.126	Non-Detect	0.0147	Non-Detect	Non-Detect
GC-AP-MW-12	**4/21/2020**	Non-Detect	-0.0655(U)	0.198	Non-Detect	0.166	Non-Detect	0.0947	Non-Detect	Non-Detect
GC-AP-MW-13	**4/21/2020**	Non-Detect	0.256(U)	0.0844(J)	Non-Detect	0.201	Non-Detect	0.0924	0.0125	0.000433(J)
GC-AP-MW-14	**4/21/2020**	0.0339	0.653	0.254	Non-Detect	0.672	Non-Detect	0.0141	Non-Detect	Non-Detect
GC-AP-MW-15	**4/21/2020**	0.0189	0.693	0.14	Non-Detect	0.604	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-16	**4/21/2020**	0.0146	0.493(U)	0.245	Non-Detect	0.62	Non-Detect	Non-Detect	Non-Detect	0.00032(J)
GC-AP-MW-17	**4/21/2020**	0.0158	0.859	0.565	Non-Detect	0.629	Non-Detect	0.0694	Non-Detect	Non-Detect
GC-AP-MW-18	**4/21/2020**	0.0173	0.888	0.171	Non-Detect	0.386	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-21	**4/21/2020**	Non-Detect	0.271	0.173	Non-Detect	0.0782	Non-Detect	0.0562	Non-Detect	Non-Detect
GC-AP-MW-23	**4/21/2020**	Non-Detect	0.166(U)	0.095(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	**4/21/2020**	Non-Detect	0.791	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	**4/21/2020**	0.0133	0.218(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	**4/21/2020**	Non-Detect	0.215(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	**4/21/2020**	Non-Detect	0.55	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	**4/21/2020**	Non-Detect	0.307(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	**4/21/2020**	Non-Detect	0.201(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	**4/21/2020**	Non-Detect	0.00976(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	**4/21/2020**	Non-Detect	0.0983(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	**4/21/2020**	Non-Detect	0.474(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	**4/21/2020**	Non-Detect	1.08	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).

Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV								
WELL	**SAMPLE DATE**	**Cobalt**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
UNITS		**mg/L**	**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-34HA	**04-22-2020**	0.00675	0.473	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-35H	**04-21-2020**	Non-Detect	0.423	0.16	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00451(J)	Non-Detect
GC-AP-MW-36H	**04-22-2020**	Non-Detect	-0.103	0.279	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-37H	**04-22-2020**	0.0327	0.273	0.197	Non-Detect	0.0134(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-38H	**04-22-2020**	Non-Detect	0.413	0.135	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0111	Non-Detect
GC-AP-MW-39H	**04-22-2020**	0.0192	1.48	0.446	Non-Detect	0.41	Non-Detect	0.00246(J)	Non-Detect	0.0008(J)
GC-AP-MW-40H	**04-20-2020**	0.0132	0.66	0.0952(J)	Non-Detect	0.628	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-41H	**04-29-2020**	0.00777	0.684	0.0857(J)	Non-Detect	0.041	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-42H	**04-21-2020**	0.0359	0.678	0.0701(J)	Non-Detect	0.0174(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-43H	**04-21-2020**	0.0162	1.89	0.147	Non-Detect	0.376	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-44H	**04-20-2020**	0.324	0.386	0.0638(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-45H	**04-20-2020**	0.00451(J)	0.529	0.176	Non-Detect	0.148	Non-Detect	0.0703	Non-Detect	Non-Detect
GC-AP-MW-48H	**04-21-2020**	0.00236(J)	0.251	Non-Detect	Non-Detect	0.0924	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-49H	**04-21-2020**	0.00799	0.594	0.075(J)	Non-Detect	0.0733	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-53H	**04-20-2020**	0.119	1.13	0.154	Non-Detect	0.0107(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-54H	**04-20-2020**	0.0203	1	0.25	Non-Detect	0.101	Non-Detect	0.00223(J)	Non-Detect	Non-Detect
GC-AP-MW-57H	**04-20-2020**	0.0862	1.5	0.189	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-PZ-4	**04-20-2020**	0.157	1.59	0.132	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00237(J)	Non-Detect
GC-AP-MW-47HO	**05-28-2020**	Non-Detect	-0.0036(U)	0.0647(J)	Non-Detect	0.0527	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-50HO	**05-28-2020**	0.00801	0.612	0.138	Non-Detect	0.0979	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-55HO	**05-28-2020**	Non-Detect	0.0544(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-59HO	**05-28-2020**	0.0445	2.27	0.0914(J)	0.0026(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-46HO	**07-06-2020**	Non-Detect	0.292(U)	0.185	Non-Detect	0.089	Non-Detect	0.0661	Non-Detect	Non-Detect
GC-AP-MW-52HO	**07-06-2020**	0.0158	0.432(U)	0.0721(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Notes:

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Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		Field Parameters				
WELL	**SAMPLE DATE**	**DO**	**ORP**	**Temperature**	**Conductivity**	**Turbidity**
UNITS		**mg/L**	**mv**	**C**	**uS/cm**	**NTU**
GC-AP-MW-1	**8/17/2020**	0.63	24.09	21.68	1538.05	1.7
GC-AP-MW-2	**8/17/2020**	0.76	15.71	23.99	1009.86	2.03
GC-AP-MW-3	**8/17/2020**	0.78	-14.48	22.72	549.83	2.13
GC-AP-MW-5	**8/12/2020**	0.7	-64.62	21.71	651.1	2.07
GC-AP-MW-6	**8/19/2020**	0.72	39.38	20.61	1149.79	1.54
GC-AP-MW-7	**8/19/2020**	0.71	72.2	20.28	1478.29	1.78
GC-AP-MW-8	**8/19/2020**	0.57	54.42	20.25	1021.5	2.03
GC-AP-MW-9	**8/18/2020**	0.71	-13.53	20.29	797.89	1.68
GC-AP-MW-10	**8/18/2020**	0.53	-26.87	20.33	600.27	1.75
GC-AP-MW-11	**8/18/2020**	0.85	46.48	21.17	374.7	1.72
GC-AP-MW-12	**8/18/2020**	0.98	113.44	20.44	361.36	1.68
GC-AP-MW-13	**8/18/2020**	1.38	121.52	22.96	653.79	1.23
GC-AP-MW-14	**8/11/2020**	0.56	-50.19	20.92	984.33	2.16
GC-AP-MW-15	**8/12/2020**	0.76	34.53	19.75	595.69	1.16
GC-AP-MW-16	**8/11/2020**	0.24	-49.44	20.11	644.98	8.79
GC-AP-MW-17	**8/11/2020**	0.23	-83.56	20.65	663.04	8.86
GC-AP-MW-18	**8/12/2020**	0.23	-46.54	20.67	654.16	2.69
GC-AP-MW-21	**8/18/2020**	0.3	109.63	21.94	279.83	1.72
GC-AP-MW-23	**8/12/2020**	5.96	168.32	22.44	169.61	1.27
GC-AP-MW-24	**8/12/2020**	5.25	218.58	21.49	245.21	1.03
GC-AP-MW-25	**8/11/2020**	0.58	222.22	21.37	286.17	1.84
GC-AP-MW-26	**8/18/2020**	6.22	197.83	19.39	60.95	0.2
GC-AP-MW-27	**8/18/2020**	8.02	241.62	19.67	33.77	0.01
GC-AP-MW-28	**8/18/2020**	7.82	261.86	19.02	57.09	0.45
GC-AP-MW-29	**8/18/2020**	9.03	254.6	18.75	16.42	1.34
GC-AP-MW-30	**8/18/2020**	4.38	229.96	18.8	32.43	0.96
GC-AP-MW-31	**8/11/2020**	1.27	173.46	18.75	70.47	1.12
GC-AP-MW-32	**8/12/2020**	4.92	169.75	19.85	63.32	2.7
GC-AP-MW-33	**8/12/2020**	4.66	328.38	18.95	93	1.44

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).

Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		Field Parameters				
WELL	**SAMPLE DATE**	**DO**	**ORP**	**Temperature**	**Conductivity**	**Turbidity**
UNITS		**mg/L**	**mv**	**C**	**uS/cm**	**NTU**
GC-AP-MW-34HA	**8/12/2020**	3.53	248.88	22.53	84.72	1.85
GC-AP-MW-35H	**8/18/2020**	7.47	106.35	21.91	149.86	1.32
GC-AP-MW-36H	**8/11/2020**	0.49	-1.58	22.97	296.35	9.51
GC-AP-MW-37H	**8/19/2020**	1.27	-29.77	23.14	1089.57	15.7
GC-AP-MW-38H	**8/19/2020**	2.65	60.73	22.47	509.57	2.89
GC-AP-MW-39H	**8/11/2020**	0.3	-73.96	20.18	737.4	6.32
GC-AP-MW-40H	**8/12/2020**	0.18	77.71	19.1	918.16	1.86
GC-AP-MW-41H	**8/18/2020**	0.22	12	20.87	480.06	1.91
GC-AP-MW-42H	**8/19/2020**	0.19	23.49	20.43	568.13	0.82
GC-AP-MW-43H	**8/19/2020**	0.51	-17.55	20.33	812.67	3.28
GC-AP-MW-44H	**8/12/2020**	0.26	42.05	19.67	918.45	2.97
GC-AP-MW-45H	**8/17/2020**	0.76	-45.66	22.76	439.62	1.35
GC-AP-MW-48H	**8/17/2020**	0.5	59.08	20.38	274.85	0.36
GC-AP-MW-49H	**8/19/2020**	0.88	73.9	21.74	299.53	1.5
GC-AP-MW-53H	**8/11/2020**	0.2	-34.84	22.26	715.39	4.01
GC-AP-MW-54H	**8/12/2020**	0.27	-112.79	21.21	778.42	4.24
GC-AP-MW-57H	**8/12/2020**	0.21	-77.49	20.67	747.63	2.18
GC-AP-PZ-4	**8/17/2020**	0.28	23.23	22.86	1025.27	1.97
GC-AP-MW-47HO	**8/11/2020**	0.54	48.59	22.58	166.72	6.67
GC-AP-MW-50HO	**8/11/2020**	0.23	26.32	19.60	365.81	9.52
GC-AP-MW-55HO	**8/11/2020**	5.61	87.43	18.83	68.35	2.72
GC-AP-MW-59HO	**8/11/2020**	0.15	-31.59	19.00	610.17	7.47
GC-AP-MW-46HO	**8/11/2020**	0.27	79.99	20.06	454.13	8.46
GC-AP-MW-52HO	**8/11/2020**	0.15	129.9	18.78	804.48	7.89

Notes:

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Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX III						
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**
GC-AP-MW-1	**8/17/2020**	0.496	81.5	23.2	0.115	5.54	919	1590
GC-AP-MW-2	**8/17/2020**	0.152	156	13.1	0.0753(J)	5.91	497	818
GC-AP-MW-3	**8/17/2020**	0.0636(J)	78.9	24.6	0.148	5.85	17.3	361
GC-AP-MW-5	**8/12/2020**	0.695	92.2	13	0.221	6.36	132	433
GC-AP-MW-6	**8/19/2020**	1.86	162	39.6	0.223	6.49	163	788
GC-AP-MW-7	**8/19/2020**	0.561	147	123	0.103	6.14	296	1050
GC-AP-MW-8	**8/19/2020**	1.94	98.6	70.5	0.116	6.06	44.5	658
GC-AP-MW-9	**8/18/2020**	1.24	109	31.4	0.177	6.21	115	542
GC-AP-MW-10	**8/18/2020**	1.37	74.4	21.3	0.203	6.33	58.6	376
GC-AP-MW-11	**8/18/2020**	0.358	37.6	16.2	0.165	6	81.1	260
GC-AP-MW-12	**8/18/2020**	0.748	42.9	6.46	0.223	6.98	89	250
GC-AP-MW-13	**8/18/2020**	0.501	95.3	8.24	0.108	6.76	203	444
GC-AP-MW-14	**8/11/2020**	1.44	118	12.7	0.278	6.02	242	688
GC-AP-MW-15	**8/12/2020**	0.813	72.2	11.4	0.147	6.1	160	401
GC-AP-MW-16	**8/11/2020**	1.93	101	12.1	0.294	6.7	55	482
GC-AP-MW-17	**8/11/2020**	2.03	73	15.4	0.515	6.71	46.7	522
GC-AP-MW-18	**8/12/2020**	1.53	85.9	24.5	0.198	6.62	13.8	390
GC-AP-MW-21	**8/18/2020**	0.211	25.5	5.54	0.18	6.31	63.4	179
GC-AP-MW-23	**8/12/2020**	Non-Detect	28	1.28	0.0867(J)	6.03	10.2	96
GC-AP-MW-24	**8/12/2020**	Non-Detect	35.8	4.14	Non-Detect	5.04	82.2	165
GC-AP-MW-25	**8/11/2020**	0.11	10.7	16.7	Non-Detect	4.81	79.5	193
GC-AP-MW-26	**8/18/2020**	Non-Detect	4.58	2.16	Non-Detect	4.79	9.57	42
GC-AP-MW-27	**8/18/2020**	Non-Detect	0.884	1.63	Non-Detect	4.75	1.57	27.3
GC-AP-MW-28	**8/18/2020**	Non-Detect	2.23	1.38	Non-Detect	4.59	10.3	35.3
GC-AP-MW-29	**8/18/2020**	Non-Detect	0.231(J)	1.05	Non-Detect	4.22	0.608(J)	Non-Detect
GC-AP-MW-30	**8/18/2020**	Non-Detect	0.926	3.8	Non-Detect	4.76	Non-Detect	30
GC-AP-MW-31	**8/11/2020**	Non-Detect	7.46	5.45	Non-Detect	5.63	4.33	52
GC-AP-MW-32	**8/12/2020**	Non-Detect	9.48	4.17	Non-Detect	5.84	2.54	49.3
GC-AP-MW-33	**8/12/2020**	Non-Detect	1.78	4.46	Non-Detect	4.65	13.6	62

Notes:

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Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX III						
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**
GC-AP-MW-34HA	**8/12/2020**	Non-Detect	9.68	2.07	Non-Detect	4.78	13.5	66
GC-AP-MW-35H	**8/18/2020**	Non-Detect	22.9	1.12	0.0766(J)	6.03	28.8	100
GC-AP-MW-36H	**8/11/2020**	0.145	1.06	3.28	0.325	7.69	8.73	184
GC-AP-MW-37H	**8/19/2020**	0.229	143	13.9	0.141	5.95	402	834
GC-AP-MW-38H	**8/19/2020**	0.135	96	3.4	0.149	6.57	70	308
GC-AP-MW-39H	**8/11/2020**	1.84	111	7.85	0.494	6.7	51.7	526
GC-AP-MW-40H	**8/12/2020**	0.807	115	8.34	0.145	5.83	285	588
GC-AP-MW-41H	**8/18/2020**	0.689	66.7	15.9	0.092(J)	5.93	76.6	299
GC-AP-MW-42H	**8/19/2020**	1.26	59.3	18.2	0.077(J)	6.27	55.7	371
GC-AP-MW-43H	**8/19/2020**	1.15	99.7	46.9	0.154	6.18	71.8	534
GC-AP-MW-44H	**8/12/2020**	0.197	173	10.8	0.0867(J)	6.27	415	728
GC-AP-MW-45H	**8/17/2020**	0.57	57.2	8.99	0.195	6.94	128	305
GC-AP-MW-48H	**8/17/2020**	0.218	27.6	11.9	Non-Detect	6.24	78	181
GC-AP-MW-49H	**8/19/2020**	0.213	27.4	7.53	0.0823(J)	6.14	70.7	171
GC-AP-MW-53H	**8/11/2020**	0.493	92.8	21.2	0.133	5.8	12.6	434
GC-AP-MW-54H	**8/12/2020**	0.76	101	10.8	0.275	6.67	180	497
GC-AP-MW-57H	**8/12/2020**	0.338	79.1	6.3	0.165	6.48	274	491
GC-AP-PZ-4	**8/17/2020**	0.344	153	9.78	0.0959(J)	5.94	493	826
GC-AP-MW-47HO	**8/11/2020**	0.0903(J)	15.9	3.18	Non-Detect	6.25	49.3	109
GC-AP-MW-50HO	**8/11/2020**	0.329	39.5	11.2	0.16	6.24	79	229
GC-AP-MW-55HO	**8/11/2020**	0.0406(J)	2.43	6.21	Non-Detect	5.1	9.32	52.7
GC-AP-MW-59HO	**8/11/2020**	0.209	76.7	12.1	0.137	6.16	206	407
GC-AP-MW-46HO	**8/11/2020**	0.252	57.8	4.27	0.169	6.38	54.5	258
GC-AP-MW-52HO	**8/11/2020**	1.25	73.1	87.4	0.0762(J)	6.08	64.1	462

Notes:

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2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV						
WELL	**SAMPLE DATE**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-1	**8/17/2020**	Non-Detect	0.0265	0.0218	Non-Detect	Non-Detect	Non-Detect	0.195
GC-AP-MW-2	**8/17/2020**	Non-Detect	0.00768	0.0376	Non-Detect	Non-Detect	Non-Detect	0.0249
GC-AP-MW-3	**8/17/2020**	Non-Detect	0.00909	0.139	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-5	**8/12/2020**	Non-Detect	0.415	0.134	Non-Detect	Non-Detect	Non-Detect	0.00678
GC-AP-MW-6	**8/19/2020**	Non-Detect	Non-Detect	0.0784	Non-Detect	Non-Detect	Non-Detect	0.00278(J)
GC-AP-MW-7	**8/19/2020**	Non-Detect	Non-Detect	0.0816	Non-Detect	Non-Detect	Non-Detect	0.0046(J)
GC-AP-MW-8	**8/19/2020**	Non-Detect	Non-Detect	0.119	Non-Detect	Non-Detect	Non-Detect	0.00975
GC-AP-MW-9	**8/18/2020**	Non-Detect	0.0108	0.165	Non-Detect	Non-Detect	Non-Detect	0.0164
GC-AP-MW-10	**8/18/2020**	Non-Detect	0.0121	0.223	Non-Detect	Non-Detect	Non-Detect	0.0287
GC-AP-MW-11	**8/18/2020**	Non-Detect	0.00457(J)	0.0866	Non-Detect	Non-Detect	Non-Detect	0.0298
GC-AP-MW-12	**8/18/2020**	Non-Detect	Non-Detect	0.021	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-13	**8/18/2020**	0.00388	0.00176(J)	0.199	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-14	**8/11/2020**	Non-Detect	0.0207	0.0806	Non-Detect	Non-Detect	Non-Detect	0.0373
GC-AP-MW-15	**8/12/2020**	Non-Detect	Non-Detect	0.0352	Non-Detect	Non-Detect	Non-Detect	0.0184
GC-AP-MW-16	**8/11/2020**	Non-Detect	0.0698	0.0948	Non-Detect	Non-Detect	Non-Detect	0.0148
GC-AP-MW-17	**8/11/2020**	Non-Detect	0.581	0.29	Non-Detect	Non-Detect	Non-Detect	0.0122
GC-AP-MW-18	**8/12/2020**	Non-Detect	0.0485	0.0815	Non-Detect	Non-Detect	Non-Detect	0.0152
GC-AP-MW-21	**8/18/2020**	Non-Detect	Non-Detect	0.0517	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	**8/12/2020**	Non-Detect	Non-Detect	0.0311	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	**8/12/2020**	Non-Detect	Non-Detect	0.0788	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	**8/11/2020**	Non-Detect	Non-Detect	0.111	Non-Detect	Non-Detect	Non-Detect	0.0126
GC-AP-MW-26	**8/18/2020**	Non-Detect	Non-Detect	0.0409	0.000828(J)	Non-Detect	Non-Detect	0.00279(J)
GC-AP-MW-27	**8/18/2020**	Non-Detect	Non-Detect	0.0734	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	**8/18/2020**	Non-Detect	Non-Detect	0.211	Non-Detect	0.000476(J)	Non-Detect	Non-Detect
GC-AP-MW-29	**8/18/2020**	Non-Detect	Non-Detect	0.0442	Non-Detect	Non-Detect	Non-Detect	0.00224(J)
GC-AP-MW-30	**8/18/2020**	Non-Detect	Non-Detect	0.0529	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	**8/11/2020**	Non-Detect	Non-Detect	0.0264	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	**8/12/2020**	Non-Detect	Non-Detect	0.0127	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	**8/12/2020**	Non-Detect	Non-Detect	0.0601	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV						
WELL	**SAMPLE DATE**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-34HA	**8/12/2020**	Non-Detect	Non-Detect	0.0467	Non-Detect	Non-Detect	Non-Detect	0.00222(J)
GC-AP-MW-35H	**8/18/2020**	Non-Detect	Non-Detect	0.033	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-36H	**8/11/2020**	Non-Detect	0.00223(J)	0.00393(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-37H	**8/19/2020**	Non-Detect	0.00618	0.0591	Non-Detect	Non-Detect	Non-Detect	0.0176
GC-AP-MW-38H	**8/19/2020**	Non-Detect	Non-Detect	0.0678	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-39H	**8/11/2020**	Non-Detect	0.0635	0.177	Non-Detect	Non-Detect	Non-Detect	0.0176
GC-AP-MW-40H	**8/12/2020**	Non-Detect	Non-Detect	0.0295	Non-Detect	Non-Detect	Non-Detect	0.00717
GC-AP-MW-41H	**8/18/2020**	Non-Detect	0.00171(J)	0.0879	Non-Detect	Non-Detect	Non-Detect	0.00814
GC-AP-MW-42H	**8/19/2020**	Non-Detect	0.00445(J)	0.119	Non-Detect	Non-Detect	Non-Detect	0.037
GC-AP-MW-43H	**8/19/2020**	Non-Detect	0.0103	0.168	Non-Detect	Non-Detect	Non-Detect	0.0173
GC-AP-MW-44H	**8/12/2020**	Non-Detect	0.00197(J)	0.0589	Non-Detect	Non-Detect	Non-Detect	0.273
GC-AP-MW-45H	**8/17/2020**	Non-Detect	Non-Detect	0.0632	Non-Detect	Non-Detect	Non-Detect	0.00458(J)
GC-AP-MW-48H	**8/17/2020**	Non-Detect	Non-Detect	0.027	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-49H	**8/19/2020**	Non-Detect	Non-Detect	0.0394	Non-Detect	0.000334(J)	Non-Detect	0.00853
GC-AP-MW-53H	**8/11/2020**	Non-Detect	0.0869	0.246	Non-Detect	Non-Detect	Non-Detect	0.0859
GC-AP-MW-54H	**8/12/2020**	Non-Detect	0.467	0.221	Non-Detect	Non-Detect	Non-Detect	0.0272
GC-AP-MW-57H	**8/12/2020**	Non-Detect	0.0467	0.0796	Non-Detect	Non-Detect	Non-Detect	0.0857
GC-AP-PZ-4	**8/17/2020**	Non-Detect	0.00191(J)	0.0718	Non-Detect	Non-Detect	Non-Detect	0.148
GC-AP-MW-47HO	**8/11/2020**	Non-Detect	Non-Detect	0.0204	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-50HO	**8/11/2020**	Non-Detect	Non-Detect	0.064	Non-Detect	Non-Detect	Non-Detect	0.0056
GC-AP-MW-55HO	**8/11/2020**	Non-Detect	Non-Detect	0.0337	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-59HO	**8/11/2020**	Non-Detect	Non-Detect	0.0909	Non-Detect	Non-Detect	Non-Detect	0.022
GC-AP-MW-46HO	**8/11/2020**	Non-Detect	Non-Detect	0.0653	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-52HO	**8/11/2020**	Non-Detect	Non-Detect	0.116	Non-Detect	0.00042(J)	Non-Detect	0.0129

Notes:

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4. TDS - Total Dissolved Solids

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV							
WELL	**SAMPLE DATE**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
UNITS		**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-1	**8/17/2020**	1.46	0.115	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	**8/17/2020**	0.817	0.0753(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	**8/17/2020**	0.738	0.148	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-5	**8/12/2020**	2.08	0.221	Non-Detect	0.132	Non-Detect	0.00292(J)	Non-Detect	Non-Detect
GC-AP-MW-6	**8/19/2020**	0.96	0.223	Non-Detect	0.0197(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	**8/19/2020**	1.04	0.103	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	**8/19/2020**	0.6(U)	0.116	Non-Detect	0.0511	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	**8/18/2020**	1.59	0.177	Non-Detect	0.0591	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-10	**8/18/2020**	1.08	0.203	Non-Detect	0.124	Non-Detect	0.00808(J)	Non-Detect	Non-Detect
GC-AP-MW-11	**8/18/2020**	0.457(U)	0.165	Non-Detect	0.109	Non-Detect	0.0146	Non-Detect	Non-Detect
GC-AP-MW-12	**8/18/2020**	0.135(U)	0.223	Non-Detect	0.0892	Non-Detect	0.0938	Non-Detect	Non-Detect
GC-AP-MW-13	**8/18/2020**	0.568(U)	0.108	Non-Detect	0.42	Non-Detect	0.145	0.00416(J)	0.00114
GC-AP-MW-14	**8/11/2020**	1.64	0.278	Non-Detect	0.712	Non-Detect	0.0117	Non-Detect	Non-Detect
GC-AP-MW-15	**8/12/2020**	0.983	0.147	Non-Detect	0.594	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-16	**8/11/2020**	1.48	0.294	Non-Detect	0.599	Non-Detect	Non-Detect	Non-Detect	0.000329(J)
GC-AP-MW-17	**8/11/2020**	2.14	0.515	Non-Detect	0.552	Non-Detect	0.0506	Non-Detect	Non-Detect
GC-AP-MW-18	**8/12/2020**	1.17	0.198	Non-Detect	0.326	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-21	**8/18/2020**	-0.0105(U)	0.18	Non-Detect	0.0718	Non-Detect	0.0505	Non-Detect	Non-Detect
GC-AP-MW-23	**8/12/2020**	0.986	0.0867(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	**8/12/2020**	0.919	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	**8/11/2020**	0.511(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	**8/18/2020**	2.3	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	**8/18/2020**	0.504(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	**8/18/2020**	0.797	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	**8/18/2020**	3.88	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	**8/18/2020**	3.33	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	**8/11/2020**	0.767	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	**8/12/2020**	3.18	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	**8/12/2020**	3.41	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).

Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Table 8.
Second Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV							
WELL	**SAMPLE DATE**	**Combined Radium 226 + 228**	**Fluoride**	**Lead**	**Lithium**	**Mercury**	**Molybdenum**	**Selenium**	**Thallium**
UNITS		**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GC-AP-MW-34HA	**8/12/2020**	2.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-35H	**8/18/2020**	0.636(U)	0.0766(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00268(J)	Non-Detect
GC-AP-MW-36H	**8/11/2020**	0.223(U)	0.325	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-37H	**8/19/2020**	0.994	0.141	Non-Detect	0.0108(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-38H	**8/19/2020**	0.347(U)	0.149	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0108	Non-Detect
GC-AP-MW-39H	**8/11/2020**	2.02	0.494	Non-Detect	0.47	Non-Detect	0.00401(J)	Non-Detect	0.000814(J)
GC-AP-MW-40H	**8/12/2020**	0.928	0.145	Non-Detect	0.669	Non-Detect	Non-Detect	Non-Detect	0.000208(J)
GC-AP-MW-41H	**8/18/2020**	0.742	0.092(J)	Non-Detect	0.039	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-42H	**8/19/2020**	0.687	0.077(J)	Non-Detect	0.0168(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-43H	**8/19/2020**	1.99	0.154	Non-Detect	0.336	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-44H	**8/12/2020**	4.07	0.0867(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-45H	**8/17/2020**	1.16	0.195	Non-Detect	0.212	Non-Detect	0.0737	Non-Detect	Non-Detect
GC-AP-MW-48H	**8/17/2020**	1.11	Non-Detect	Non-Detect	0.108	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-49H	**8/19/2020**	0.0107(U)	0.0823(J)	Non-Detect	0.0511	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-53H	**8/11/2020**	1.56	0.133	Non-Detect	0.0125(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-54H	**8/12/2020**	2.14	0.275	Non-Detect	0.105	Non-Detect	0.00278(J)	Non-Detect	Non-Detect
GC-AP-MW-57H	**8/12/2020**	0.991	0.165	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-PZ-4	**8/17/2020**	1.16	0.0959(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-47HO	**8/11/2020**	0.208(U)	Non-Detect	Non-Detect	0.0457	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-50HO	**8/11/2020**	0.883	0.16	Non-Detect	0.0825	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-55HO	**8/11/2020**	0.462(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-59HO	**8/11/2020**	0.997	0.137	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-46HO	**8/11/2020**	0.477(U)	0.169	Non-Detect	0.097	Non-Detect	0.0443	Non-Detect	Non-Detect
GC-AP-MW-52HO	**8/11/2020**	0.777	0.0762(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Notes:

1. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).

Values are displayed as less than the PQL with a J.

2. Non-Detect 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 measurment.

4. TDS - Total Dissolved Solids

Appendix A

SOUTHERN COMPANY

BORING LOG

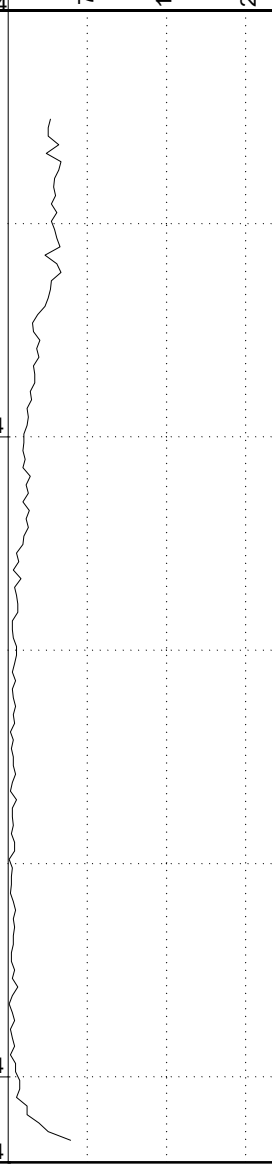
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/26/2015 **COMPLETED** 8/26/2015 **SURF. ELEV.** 104.4 **COORDINATES:** N:946,095.06 E:1,880,860.84
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 27 ft. **GROUND WATER DEPTH: DURING** 7 ft. **COMP.** 11.6 ft. **DELAYED** 16.15 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

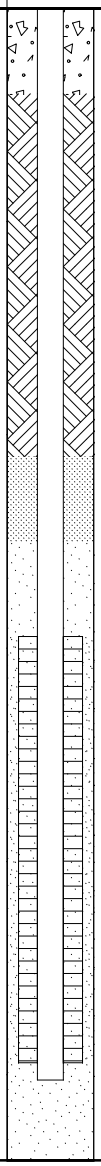
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
			104.4
		Lean Clay (CL) mottled reddish yellow (7.5YR 6/8) alluvium moist, trace sand	
5			
10			94.4
		Poorly-graded Sand (SP) reddish yellow (7.5YR 7/8) alluvium wet, coarse grained with trace fines, trace fine gravel	
15			
20			
25			79.4
		Fat Clay (CH) dark gray (7.5YR 4/1) alluvium wet, trace sand and fine gravel, greenish hue	77.4

Natural Gamma



WELL DATA

Top of casing Elev. = 107.69



Surface Seal

Annular Fill

Annular Seal

Filter Pack

Screen Tip Elevation

Bottom of borehole at 27.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\FI

SOUTHERN COMPANY

BORING LOG

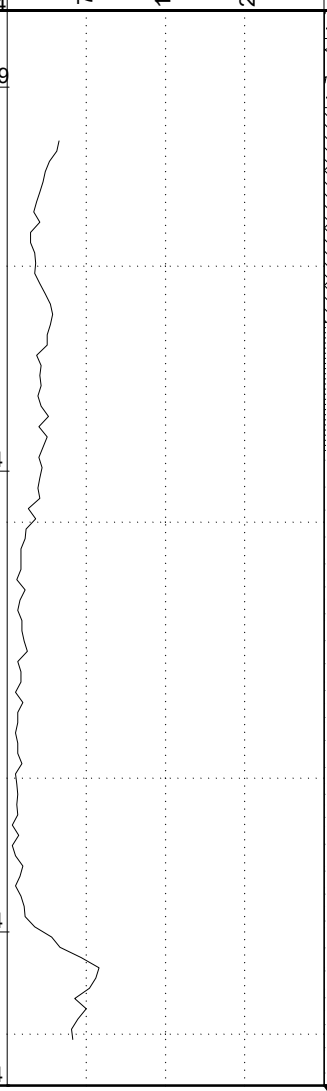
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

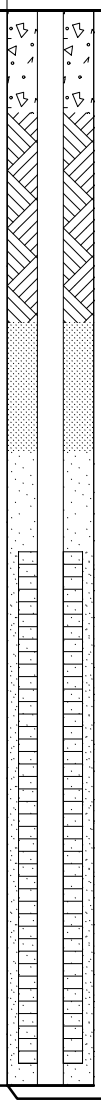
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/26/2015 **COMPLETED** 8/26/2015 **SURF. ELEV.** 103.4 **COORDINATES:** N:946,275.31 E:1,880,351.04
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 21 ft. **GROUND WATER DEPTH: DURING** 9 ft. **COMP.** 5 ft. **DELAYED** 7.15 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
			103.4
		Well-graded Gravel with Clay (GW-GC) gravelly road bed	101.9
		Lean Clay (CL) mottled reddish yellow (7.5YR 6/8) and gray (7.5YR 6/1) alluvium wet, trace fine grained sand and fine gravel	
5			
			94.4
		Poorly-graded Sand (SP) reddish yellow (7.5YR 6/8) and gray (7.5YR 6/1) alluvium wet, coarse grained with trace fines and fine gravel	
10			
		coarsening downward	
15			
			85.4
		Fat Clay (CH) dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	
20			
			82.4

Bottom of borehole at 21.0 feet.





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SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

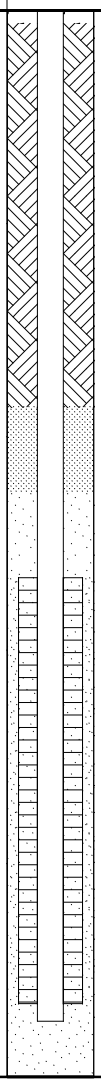
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 5/7/2013 **COMPLETED** 5/7/2013 **SURF. ELEV.** 103.1 **COORDINATES:** N:946,518.73 E:1,879,899.75
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** C. Sellers **CHECKED BY**
BORING DEPTH 25 ft. **GROUND WATER DEPTH: DURING** **COMP.** 18 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Sandy Fat Clay (CHS) Light brown sandy clay; wet	103.1
			99.6
5		**Silty Sand (SM)** Light gray fine-grained silty sand; subangular sparse medium-grains; dense, mottled	
			94.6
10		**Sandy Fat Clay (CHS)** Light gray to brown sandy clay; dense with fine-grains	
			89.6
15		**Clayey Sand (SC)** Light gray fine- to medium-grained clayey sand 15% fines	
			83.6
20		**Well-graded Gravelly Sand (SWG)** Medium- to coarse-grained sand with gravel	
			79.6
25		**Silty Sand (SM)** Gray silty sand, hard	78.1

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 106.37



Bottom of borehole at 25.0 feet.

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SOUTHERN COMPANY

BORING LOG

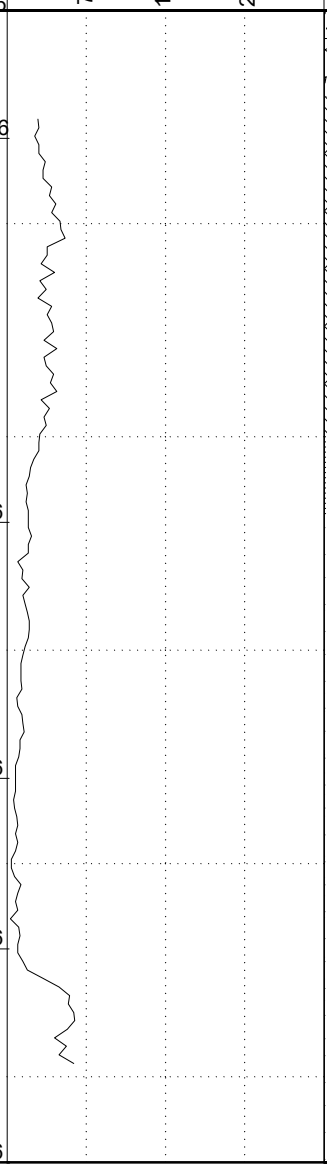
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/25/2015 **COMPLETED** 8/25/2015 **SURF. ELEV.** 105.6 **COORDINATES:** N:945,868.72 E:1,879,098.55
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 27 ft. **GROUND WATER DEPTH: DURING** 12 ft. **COMP.** 10.1 ft. **DELAYED** 4.54 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

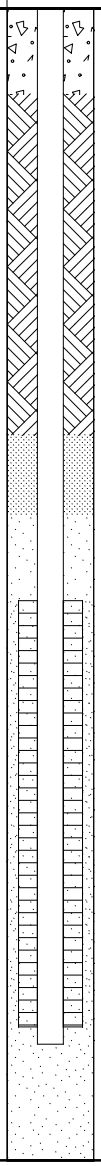
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Gravelly Lean Clay (GW-GM) mottled strong brown (7.5YR 4/6) and reddish yellow (7.5YR 8/6) fill moist, trace silt, fine gravel	105.6
		Lean Clay (CL) mottled reddish yellow (7.5YR 6/8) and gray (7.5YR 6/1) alluvium moist, trace coarse sand	102.6
5			
10			
		Well-graded Sand (SW) light brown (7.5YR 6/3) alluvium wet, coarse to fine grained, trace clay and rounded to subrounded fine gravel	93.6
15			
		Poorly-graded Sand (SP) reddish yellow (7.5YR 6/8) alluvium wet, coarse grained with trace fines, increasing fine gravel content with depth	87.6
20			
		Fat Clay (CH) dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	83.6
25			78.6

Bottom of borehole at 27.0 feet.



WELL DATA

Top of casing Elev. = 108.39



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SOUTHERN COMPANY

BORING LOG

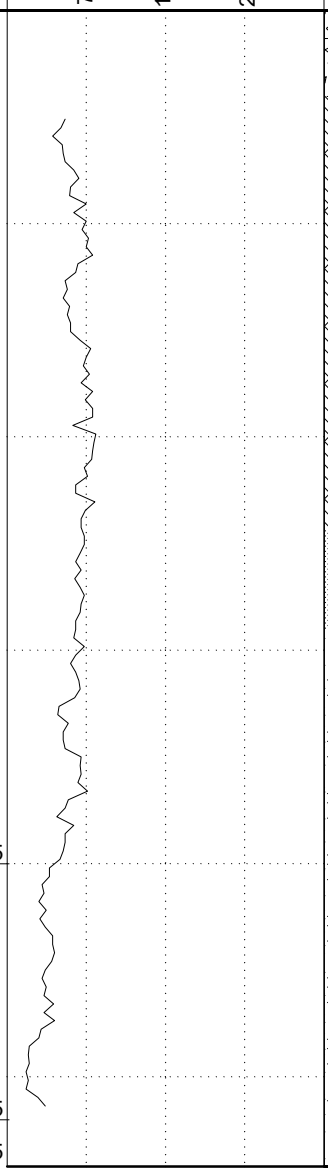
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

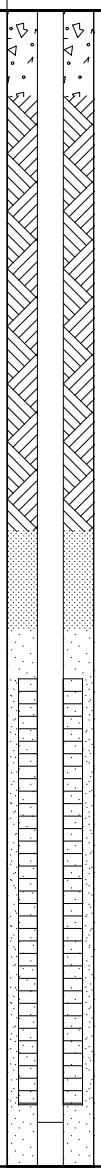
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/25/2015 **COMPLETED** 8/25/2015 **SURF. ELEV.** 98.5 **COORDINATES:** N:945,091.72 E:1,878,587.51
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 27.1 ft. **GROUND WATER DEPTH: DURING** 17.3 ft. **COMP.** 17.3 ft. **DELAYED** 3.55 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
			98.5
		Lean Clay (CL) mottled reddish yellow (7.5YR 7/8) and gray (7.5YR 6/1) alluvium moist, silty, trace sand and organics	
5			
10			
15			
20			78.5
		Well-graded Sand (SW) mottled reddish yellow (7.5YR 7/8) and gray (7.5YR 6/1) alluvium wet, silty, fine to coarse grained, trace gravel	
25			72.5
		Fat Clay (CH) dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	71.5

Bottom of borehole at 27.1 feet.





WELL DATA

Top of casing Elev. = 102.00

Surface Seal

Annular Fill

Annular Seal

Filter Pack

Screen Tip Elevation

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\FI

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

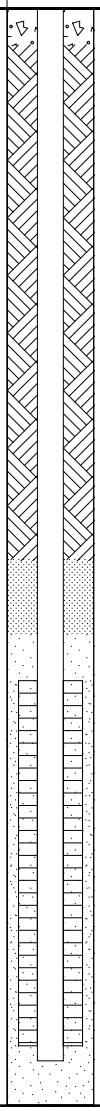
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 5/7/2013 **COMPLETED** 5/7/2013 **SURF. ELEV.** 95.2 **COORDINATES:** N:944,928.94 E:1,877,364.10
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** **CHECKED BY**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** 8.5 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Sandy Lean Clay (CLS) Red to black, mottled SANDY CLAY; dense,damp	95.2
		Silty Clay (CL-ML) Gray SILTY CLAY, soft, lean, wet	91.7
5			
		Sandy Lean Clay (CLS) Light brown to gray, mottled SANDY CLAY; angular grains, wet	86.7
10			
		Silty Sand (SM) Yellow to gray, mottled SILTY SAND; very fine-grained, soft, wet	81.7
15			
		Well-graded Sand (SW) Tan fine- to medium-grained SAND, <5% fines, angular, soft, wet	76.7
20			
25		Orange to tan medium-grained SAND, 50 - 10% fines, angular grains, wet	
		Silty Sand (SM) Gray SILTY SAND , hard, dry	66.7
30			65.2

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 98.55



Bottom of borehole at 30.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\FI

SOUTHERN COMPANY

BORING LOG

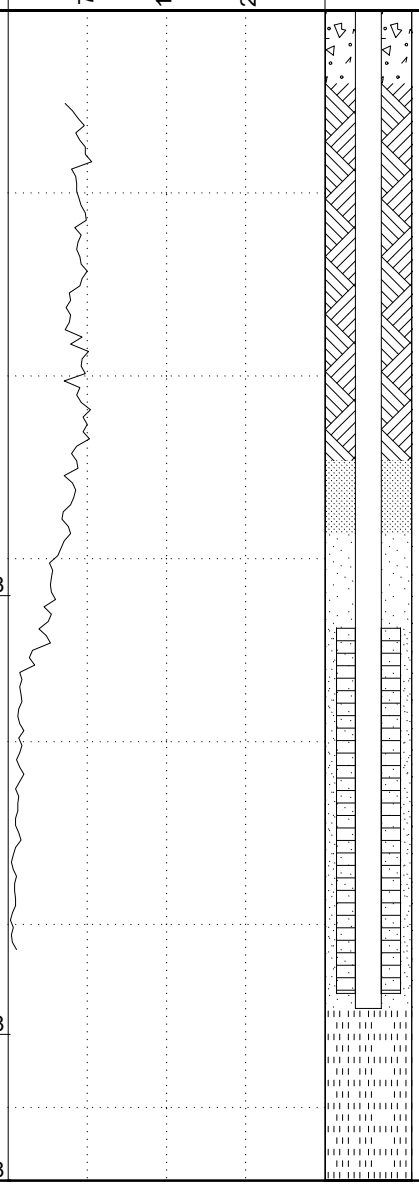
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/24/2015 **COMPLETED** 8/24/2015 **SURF. ELEV.** 93.8 **COORDINATES:** N:944,228.78 E:1,877,306.87
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 32 ft. **GROUND WATER DEPTH: DURING** 15.1 ft. **COMP.** 15.1 ft. **DELAYED** 8.09 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
			93.8
		Lean Clay (CL) mottled reddish yellow (7.5YR 6/8) and gray (7.5YR 6/1) alluvium moist, trace sand and gravel, organics	
5			
10			
15			77.8
		Poorly-graded Sand (SP) light gray (7.5YR 7/1) alluvium wet, coarse grained with trace fines, trace clay and gravel	
20			
25		7.5 YR 6/8, coarser, less fines	
			65.8
		Fat Clay (CH) dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	
30			61.8

Bottom of borehole at 32.0 feet.



SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

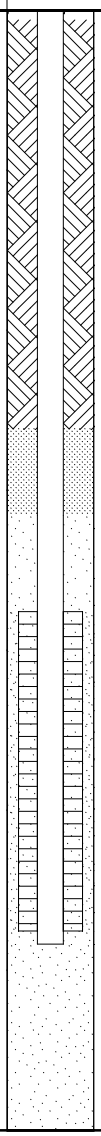
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 5/8/2013 **COMPLETED** 5/8/2013 **SURF. ELEV.** 89.9 **COORDINATES:** N:943,193.14 E:1,877,287.89
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** C. Sellers **CHECKED BY**
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** **COMP.** 8.5 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Well-graded Sand (SW) Tan fine- to medium-grained sand, wet, loose, angular	89.9
			86.4
5		**Lean Clay (CL)** Tan, lean clay, dense, low plasticity	
10		Gray/tan mottled clay, sparse fine-grained sand; wet, dense, low plasticity	
			76.4
15		**Clayey Sand (SC)** Light tan fine-grained clayey sand, wet	
			71.4
20		**Well-graded Sand (SW)** Gray fine-grained sand; angular to subangular, clean fines <5%, wet	
25		Light tan medium to coarse-grained sand, sparse gravel, loose, wet	
30		Tan sand and gravel; angular sand with rounded gravel, wet	
			56.4
35		**Well-graded Gravel (GW)** Gravel, no sample	54.9

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 93.12



Bottom of borehole at 35.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\FI

SOUTHERN COMPANY

BORING LOG

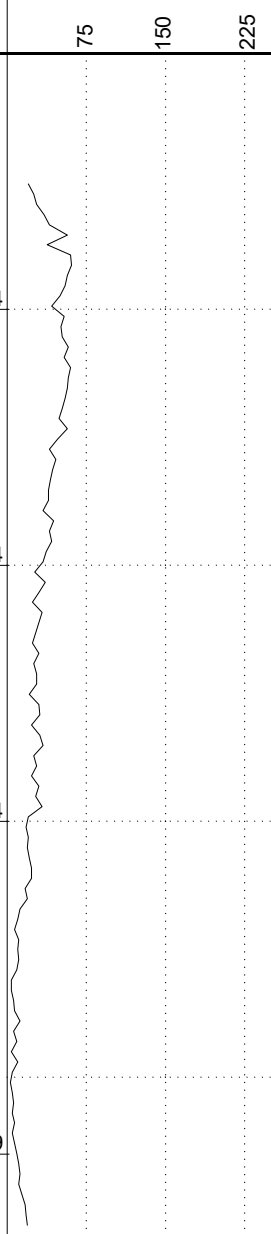
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 9/2/2015 **COMPLETED** 9/2/2015 **SURF. ELEV.** 85.4 **COORDINATES:** N:941,883.88 E:1,877,251.53
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 23.5 ft. **GROUND WATER DEPTH: DURING** 3 ft. **COMP.** 2.5 ft. **DELAYED** 3.5 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

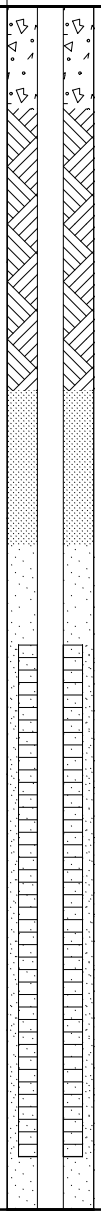
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Poorly-graded Sand (SP) mottled strong brown (7.5YR 5/8) alluvium dry, coarse grained with trace fines, trace organics	85.4
5			80.4
		Lean Clay (CL) mottled reddish yellow (7.5YR 6/8) and gray (7.5YR 6/1) alluvium wet, sandy, trace gravel	
10			75.4
		Well-graded Sand (SW) mottled strong brown (7.5YR 5/8) and gray (7.5YR 6/1) alluvium wet, very fine to fine grained, trace clay	
15			70.4
		Poorly-graded Sand (SP) reddish yellow (7.5YR 6/8) alluvium wet, coarse grained, trace fines and gravel	
20			63.9
		Fat Clay (CH) dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	61.9

Natural Gamma



WELL DATA

Top of casing Elev. = 88.27



Bottom of borehole at 23.5 feet.

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BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

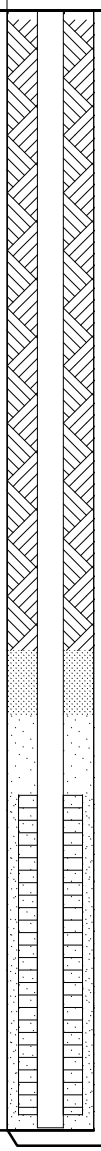
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 4/29/2013 **COMPLETED** 4/29/2013 **SURF. ELEV.** 97.7 **COORDINATES:** N:940,847.13 E:1,877,472.94
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** C. Sellers **CHECKED BY**
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** **COMP.** 15 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Poorly-graded Sand (SP) Mottled yellow brown fine-grained sand, dense, dry	97.7
5		same as above with gray sand	
10		Mottled yellow brown fine- to medium-grained sand, loose	
15			82.7
		Clayey Sand (SC) Dark gray, plastic sandy clay to clayey sand, moist	
20			76.2
		Well-graded Sand (SW) Reddish brown fine-grained sand, dense	
25			
30		Brown medium- to coarse-grained sand with pea gravel, wet and loose	
35			62.7

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 101.22



Bottom of borehole at 35.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\Fi

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

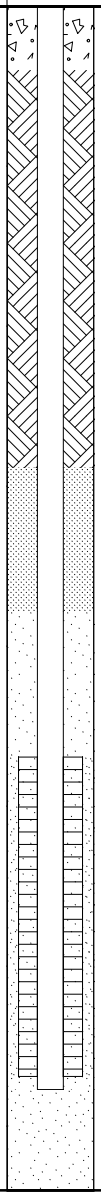
DATE STARTED 8/24/2015 **COMPLETED** 8/24/2015 **SURF. ELEV.** 100.2 **COORDINATES:** N:940,132.80 E:1,878,416.08
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 37 ft. **GROUND WATER DEPTH: DURING** 15.5 ft. **COMP.** 15.5 ft. **DELAYED** 16.28 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Poorly-graded Sand (SP)	100.2
		reddish yellow (7.5YR 6/8) alluvium wet, coarse grained with trace fines, trace organics (upper portion) and gravel	
5			
10			
15			
20		coarsening downward, gravelly	
25			
30			
			66.2
35		**Fat Clay (CH)**	
		dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	63.2

Natural Gamma: 75, 150, 225

WELL DATA

Top of casing Elev. = 103.18



Bottom of borehole at 37.0 feet.

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BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

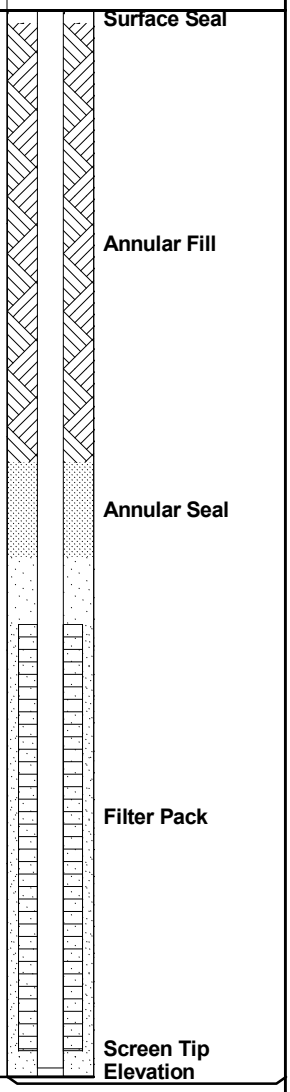
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 4/24/2013 **COMPLETED** 4/24/2013 **SURF. ELEV.** 97.2 **COORDINATES:** N:940,377.37 E:1,879,757.14
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** G. Dyer **CHECKED BY**
BORING DEPTH 25 ft. **GROUND WATER DEPTH: DURING** **COMP.** 14 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Well-graded Sand (SW) Light reddish brown fine- to medium-grained sand with round to subangular gravels, trace silt	97.2
5		Light red fine- to medium-grained sand; loose; sand coarsening downward to medium- to coarse-grained, prevalent inclined cross-bedding	
10		Reddish brown fine-grained sand; loose, damp, trace silt; planar cross-bedding from 8.5-9'	
15		Tan fine- to medium-grained sand, loose, wet	
20		Tan medium- to coarse-grained sand; loose, wet, trace gravels from 19.5 to 20; trace fine-grained sand	
25		same as above, gravels more prevalent but smaller	72.2

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 101.09



Bottom of borehole at 25.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\Fi

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BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/24/2015 **COMPLETED** 8/24/2015 **SURF. ELEV.** 83.2 **COORDINATES:** N:940,941.09 E:1,880,988.09
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 27 ft. **GROUND WATER DEPTH: DURING** 10 ft. **COMP.** 5.8 ft. **DELAYED** 6.81 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Well-graded Sand (SW) reddish yellow (7.5YR 6/8) alluvium moist, fine to coarse grained, trace organics	83.2
		Lean Clay (CL) mottled reddish yellow (7.5YR 6/8) and gray (7.5YR 6/1) alluvium wet, silty, hard to the touch, trace sand	80.2
5			
10		**Poorly-graded Sand (SP)** mottled reddish yellow (7.5YR 6/8) and gray (7.5YR 6/1) alluvium wet, coarse grained with trace fines, subrounded to rounded, trace gravel	73.2
15			
20		**Fat Clay (CH)** dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	64.2
25			56.2

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 85.62

Surface Seal
Annular Fill
Annular Seal
Filter Pack
Screen Tip Elevation

Bottom of borehole at 27.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\Fi

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BORING LOG

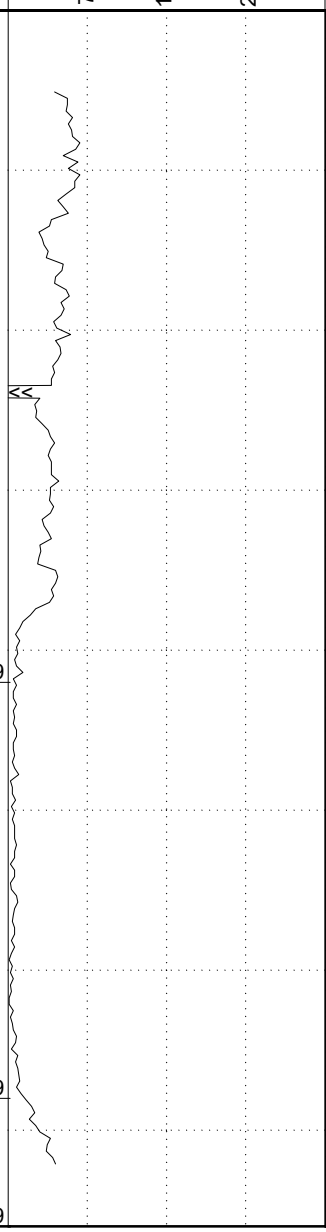
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/27/2015 **COMPLETED** 8/27/2015 **SURF. ELEV.** 88.9 **COORDINATES:** N:941,183.94 E:1,881,893.65
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 38 ft. **GROUND WATER DEPTH: DURING** 15.1 ft. **COMP.** 15.1 ft. **DELAYED** 15.99 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

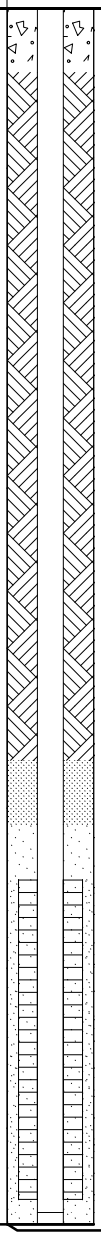
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Lean Clay (CL) mottled reddish yellow (7.5YR 6/8) alluvium moist, trace sand and gravel	88.9
5		mottled gray (7.5 YR 6/1) and sandy	
10			
15			
20			67.9
		Poorly-graded Sand (SP) reddish yellow (7.5YR 6/8) alluvium wet, coarse grained with trace fines, angular, trace fine gravel	
25			
30			54.9
35		**Clayey Sand (SC)** dark gray (7.5YR 4/1) alluvium wet, clayey, fine grained with trace very fines	50.9

Natural Gamma



WELL DATA

Top of casing Elev. = 91.44



Bottom of borehole at 38.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\FI

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/21/2015 **COMPLETED** 8/21/2015 **SURF. ELEV.** 106.1 **COORDINATES:** N:942,161.11 E:1,881,839.31
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 47 ft. **GROUND WATER DEPTH: DURING** 20.3 ft. **COMP.** 20.3 ft. **DELAYED** 33.59 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
			106.1
		(FILL)	105.1
		surface grade	
		Clayey Sand (SC)	
5		mottled reddish yellow (7.5YR 7/8) and gray (7.5YR 6/1) alluvium moist, fine to coarse grained, interbedded clay layers, trace gravel	
10			
15			
			87.1
20		**Poorly-graded Sand (SP)**	
		wet, coarse grained with less fines	
25			
30		reddish yellow (7.5YR 6/8) alluvium wet, coarse grained with trace fines, trace well rounded river gravel	
35			
40			
45			
			59.1

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 108.74

Surface Seal
Annular Fill
Annular Seal
Filter Pack
Screen Tip Elevation

Bottom of borehole at 47.0 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\FI

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BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

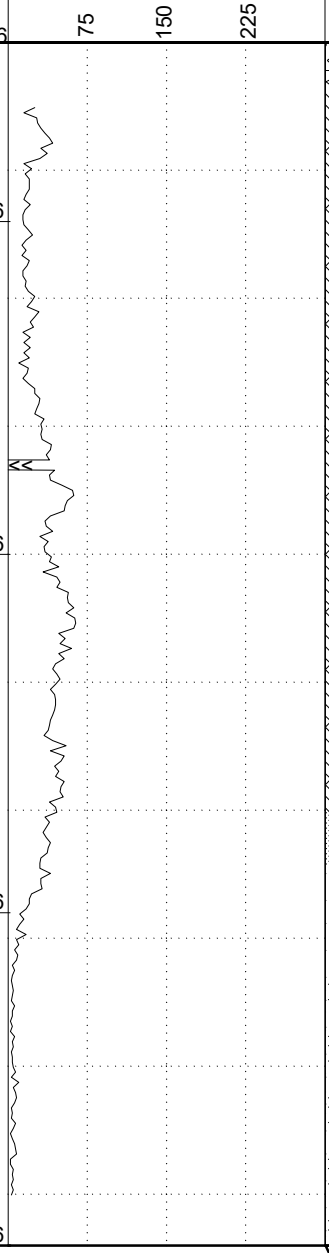
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/27/2015 **COMPLETED** 8/27/2015 **SURF. ELEV.** 103.6 **COORDINATES:** N:943,039.25 E:1,881,842.22
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 47 ft. **GROUND WATER DEPTH: DURING** 25 ft. **COMP.** 25 ft. **DELAYED** 30.24 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Well-graded Sand (SW) mottled reddish yellow (7.5YR 6/8) alluvium wet, fine to coarse grained, interbedded clay lenses, trace fine gravel	103.6
5			96.6
		Poorly-graded Sand (SP) reddish yellow (7.5YR 6/8) alluvium wet, coarse grained with trace fines, trace clay and gravel	
10			
15			
20			83.6
		Lean Clay (CL) mottled strong brown (7.5YR 5/6) alluvium wet, sandy, trace gravel and organics	
25			
30			69.6
35		**Poorly-graded Sand (SP)** gray (7.5YR 6/1) alluvium wet, fine grained with trace very fine, subrounded	
40		coarsening downward, trace fine gravel	
45			56.6

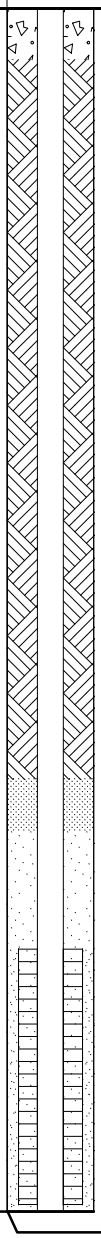
Bottom of borehole at 47.0 feet.

Natural Gamma



WELL DATA

Top of casing Elev. = 106.34



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BORING LOG

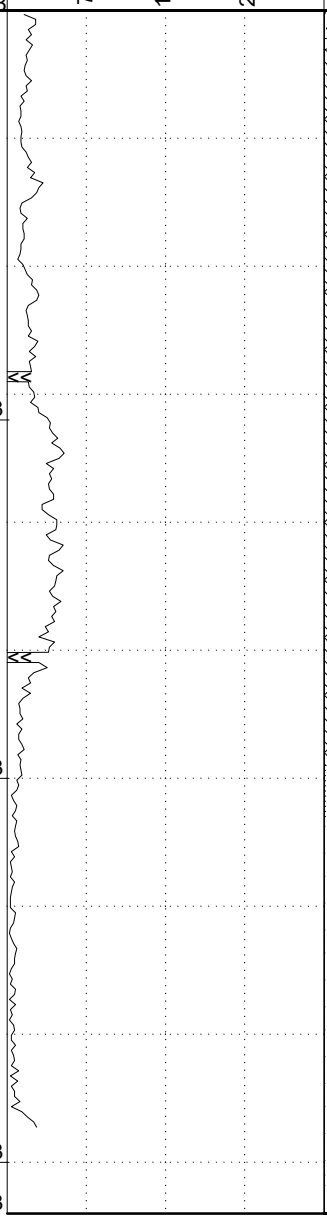
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

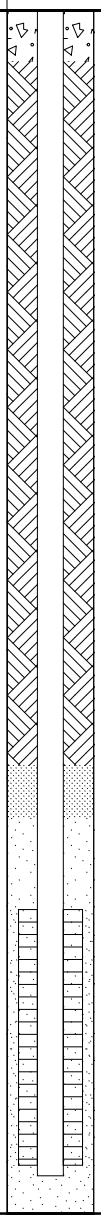
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/20/2015 **COMPLETED** 8/21/2015 **SURF. ELEV.** 102.3 **COORDINATES:** N:943,761.40 E:1,881,853.45
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 47 ft. **GROUND WATER DEPTH: DURING** 17.3 ft. **COMP.** 17.3 ft. **DELAYED** 29.49 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Poorly-graded Sand (SP) reddish yellow (7.5YR 7/8) alluvium moist, coarse grained with trace fines, trace clay and gravel	102.3
5			
10			
15			86.3
		Lean Clay (CL) mottled reddish yellow (7.5YR 7/8) and gray (7.5YR 6/1) alluvium moist, sandy, stiff, trace gravel	
20			
25			
30			72.3
		Poorly-graded Sand (SP) mottled reddish yellow (7.5YR 7/8) and gray (7.5YR 6/1) alluvium wet, coarse grained with trace fines, sub rounded to rounded, trace clay and gravel	
35			
40			
45			57.3
		Fat Clay (CH) dark gray (7.5YR 4/1) alluvium wet, hard, trace sand and gravel, greenish hue	55.3

Bottom of borehole at 47.0 feet.





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SOUTHERN COMPANY

BORING LOG

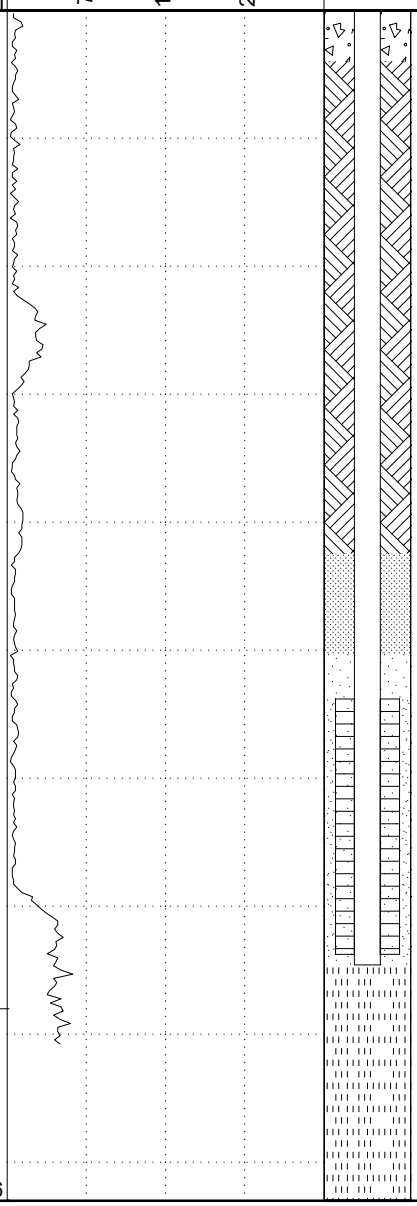
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 12/14/2015 **COMPLETED** 12/14/2015 **SURF. ELEV.** 102.1 **COORDINATES:** N:940,503.25 E:1,877,918.18
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY L. Logan **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 46.5 ft. **GROUND WATER DEPTH: DURING** 20 ft. **COMP.** 16.4 ft. **DELAYED** 18.08 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Poorly-graded Sand (SP) mottled dusky red / dark reddish brown (10R 3/4) alluvium moist, coarse grained with trace fines, trace roots	102.1
5			
		No Recovery	
10			
15		light red / moderate reddish orange (10R 6/6) alluvium moist, coarse grained trace fines, trace clay lenses	
20			
25			
		with rounded river gravel	
30			
35			
		coarsening downward	63.1
40		**Fat Clay (CH)** bluish gray (10B 6/1) alluvium wet, trace sand, blue-green hue	
45			55.6

Bottom of borehole at 46.5 feet.



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BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

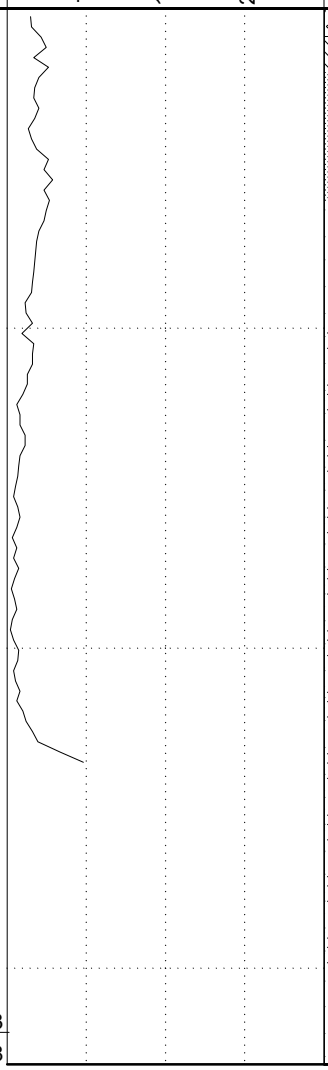
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 12/15/2015 **COMPLETED** 12/15/2015 **SURF. ELEV.** 99.3 **COORDINATES:** N:947,562.08 E:1,882,485.06
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY L. Logan **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 16.5 ft. **GROUND WATER DEPTH: DURING** 6.5 ft. **COMP.** 7.4 ft. **DELAYED** 16.68 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Well-graded Sand (SW) mottled brownish yellow / dark yellowish orange (10YR 6/6) and yellowish brown (10YR 5/8) alluvium moist, fine to coarse grained, trace clay, fines downward	99.3
5			
		less clay	
10			
15			
		Fat Clay (CH) bluish gray (10B 6/1) alluvium wet, Demopolis Chalk	83.3 / 82.8

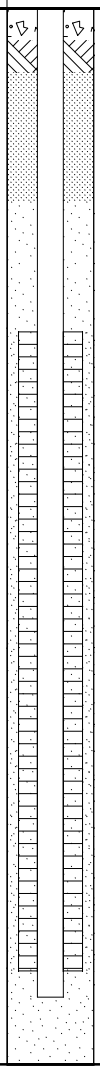
Bottom of borehole at 16.5 feet.

Natural Gamma



WELL DATA

Top of casing Elev. = 102.35



Surface Seal
Annular Fill
Annular Seal
Filter Pack
Screen Tip Elevation

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\FI

SOUTHERN COMPANY

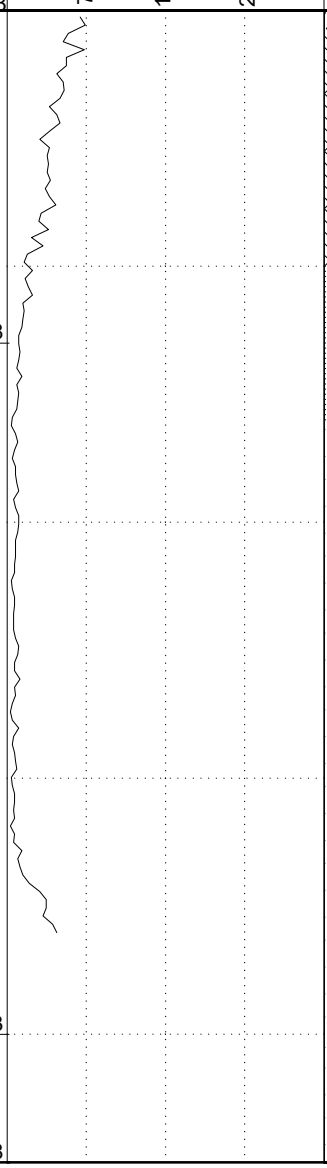
BORING LOG

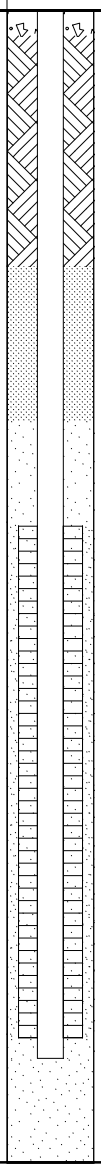
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 12/16/2015 **COMPLETED** 12/16/2015 **SURF. ELEV.** 103.3 **COORDINATES:** N:947,108.60 E:1,882,404.44
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY L. Logan **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 22.5 ft. **GROUND WATER DEPTH: DURING** 3 ft. **COMP.** 13.61 ft. **DELAYED** 13.61 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
			103.3
		Clayey Sand (SC) mottled dusky red / dark reddish brown (10R 3/4) fill wet, clayey, well graded, coarse to fine grained	
5			96.8
		Poorly-graded Sand (SP) brownish yellow (10YR 6/8) alluvium wet, fine grained with trace coarse, trace native clay lenses	
10			
15			
		becomes orange, coarse grained with trace rounded gravel	
20			83.3
		Fat Clay (CH) bluish gray (10B 6/1) alluvium wet, Demopolis Chalk	
			80.8





Bottom of borehole at 22.5 feet.

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BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

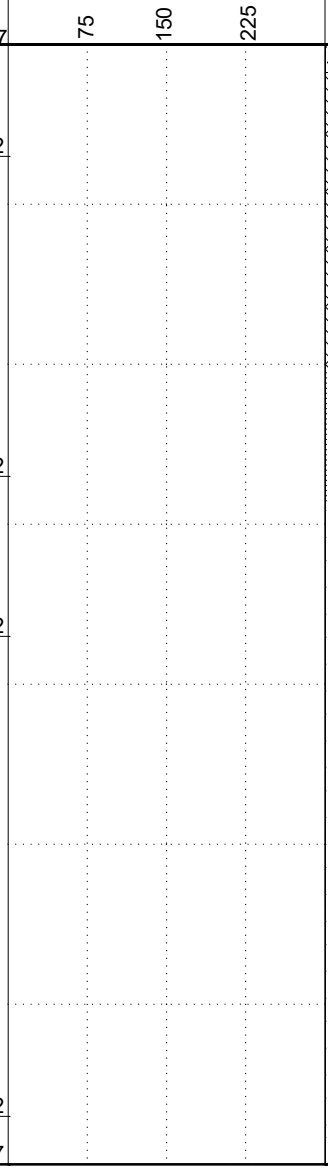
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 5/6/2013 **COMPLETED** 5/6/2013 **SURF. ELEV.** 101.7 **COORDINATES:** N:945,490.18 E:1,889,127.70
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** C. Sellers **CHECKED BY**
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.01 ft. **COMP.** 5.51 ft. **DELAYED** 5.51 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Sandy Lean Clay (CLS) Yellow-tan CLAY with fine sand; damp; dense	101.7 98.2
5		**Silty Sand (SM)** Yellow-brown SILTY SAND, very fine-grained with few medium-grained	
10		SAA 9.5 - 10 gray silty sand	88.2
15		**Well-graded Sand with Clay (SW-SC)** Brown and mottled gray fine-grained SAND;angular to subangular; 5%clay, wet	83.2
20		**Well-graded Sand (SW)** Red/gray fine- to medium-grained SAND, angular; 15% clay, wet	
25		Reddish brown fine- to medium-grained SAND; 5% clay, wet	
30		Reddish brown fine- to medium-grained SAND; 5% clay, wet	68.2
35		**Silty Sand (SM)** Gray SILTY SAND, dry, hard	66.7

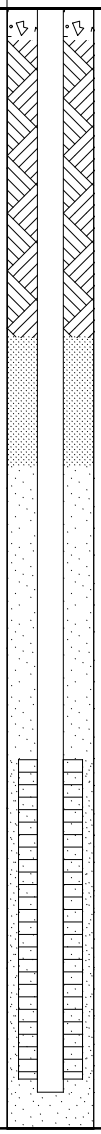
Bottom of borehole at 35.0 feet.

Natural Gamma



WELL DATA

Top of casing Elev. = 104.91



Surface Seal
Annular Fill
Annular Seal
Filter Pack
Screen Tip Elevation

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

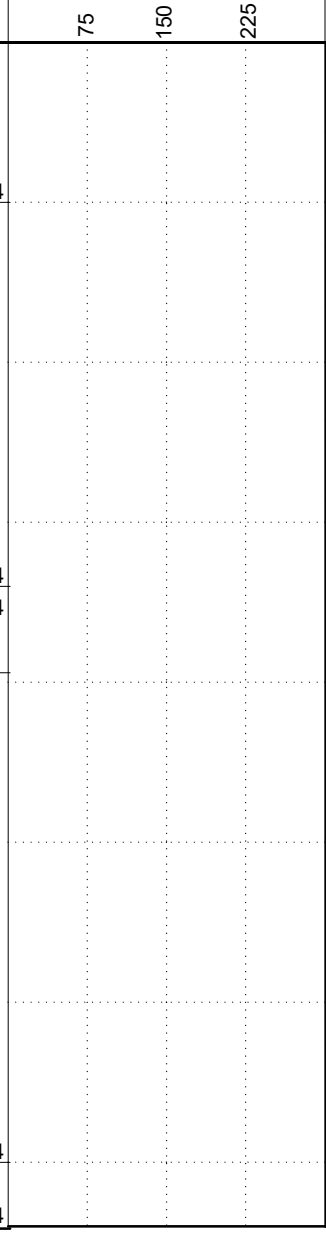
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 6/28/2016 **COMPLETED** 6/28/2016 **SURF. ELEV.** 87.4 **COORDINATES:** N:944,351.11 E:1,890,092.90
CONTRACTOR Cascade **EQUIPMENT** GeoProbe Sonic **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 37 ft. **GROUND WATER DEPTH: DURING** 5.01 ft. **COMP.** 5.51 ft. **DELAYED** 5.51 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
			87.4
		Sandy Lean Clay (SC) mottled reddish yellow (7.5YR 6/8) and strong brown (7.5YR 5/6) alluvium moist, silty and sandy, trace roots	
5			82.4
		Poorly-graded Sand (SP) yellow / pale yellowish orange (10YR 8/6) alluvium wet, coarse grained with trace fines	
10			
15			70.4
		Lean Clay (CL) mottled yellow / pale yellowish orange (10YR 8/6) and strong brown (7.5YR 5/6) alluvium wet, trace silt and sand	69.4
20		**Poorly-graded Sand (SP)** reddish yellow (7.5YR 6/8) alluvium wet, very coarse grained with trace fines, trace rounded to subrounded river gravel	
25		reddish yellow (7.5YR 6/8) alluvium wet, coarsening downward, increasing well graded gravel with depth	
30			
35			52.4
		Fat Clay (CH) dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	50.4

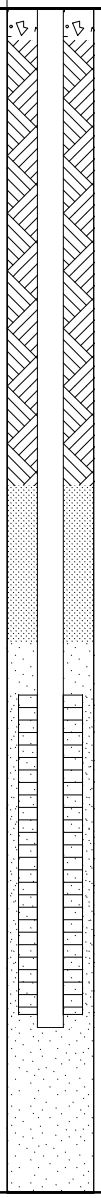
Bottom of borehole at 37.0 feet.

Natural Gamma



WELL DATA

Top of casing Elev. = 90.14



Surface Seal

Annular Fill

Annular Seal

Filter Pack

Screen Tip Elevation

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SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 6/28/2016 **COMPLETED** 6/28/2016 **SURF. ELEV.** 85.5 **COORDINATES:** N:942,187.05 E:1,889,946.80
CONTRACTOR Cascade **EQUIPMENT** GeoProbe Sonic **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.96 ft. **COMP.** 6.01 ft. **DELAYED** 10.16 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	Natural Gamma (75 / 150 / 225)	WELL DATA (Top of casing Elev. = 88.89)
		Sandy Lean Clay (CL)	85.5		**Surface Seal**
		mottled dark reddish brown (2.5YR 2.5/3) and yellow (10YR 7/8) alluvium moist, trace roots			
5			80.5		
		Poorly-graded Sand (SP)			
		mottled brown (10YR 4/3) and yellow (10YR 7/8) alluvium wet, coarse grained with trace fines, trace gravel			**Annular Fill**
10					
15					
		coarsens downward			**Annular Seal**
20					
25					
		increasing well graded rounded to subrounded river gravel with depth			**Filter Pack**
30					
					Screen Tip Elevation
35			50.5		

Bottom of borehole at 35.0 feet.

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 6/29/2016 **COMPLETED** 6/29/2016 **SURF. ELEV.** 86.6 **COORDINATES:** N:944,430.94 E:1,889,288.39
CONTRACTOR Cascade **EQUIPMENT** GeoProbe Sonic **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.01 ft. **COMP.** 6.01 ft. **DELAYED** 10.89 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

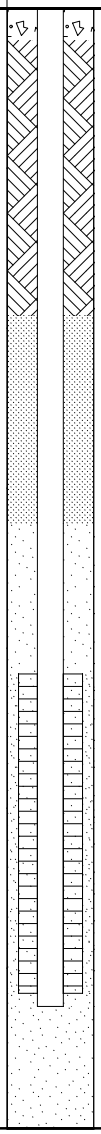
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Sandy Lean Clay (CL) mottled light red / moderate reddish orange (10R 6/6) and yellow (10YR 7/6) alluvium moist, sandy	86.6
5		**Well-graded Sand (SW)** very pale brown / grayish orange (10YR 7/4) alluvium wet, coarse to fine grained, with clay lenses	81.6
10			
15		**Poorly-graded Sand (SP)** very dark brown / dusky yellowish brown (10YR 2/2) alluvium wet, coarse grained with trace fines, trace gravel	71.6
20			
25		coarsening downward, increasing well graded rounded to subrounded river gravel with depth	
30			
		Fat Clay (CH)	53.6
35		dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	51.6

Bottom of borehole at 35.0 feet.

Natural Gamma

WELL DATA

Top of casing Elev. = 88.85



Surface Seal
Annular Fill
Annular Seal
Filter Pack
Screen Tip Elevation

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SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

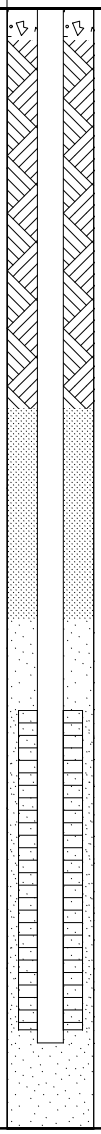
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 6/29/2016 **COMPLETED** 6/29/2016 **SURF. ELEV.** 87.3 **COORDINATES:** N:942,938.83 E:1,888,319.49
CONTRACTOR Cascade **EQUIPMENT** GeoProbe Sonic **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.11 ft. **COMP.** 6.33 ft. **DELAYED** 9.66 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Sandy Lean Clay (CL)	87.3
		mottled light red / moderate reddish orange (10R 6/6) and yellow (10YR 7/6) alluvium moist, sandy	
5			82.3
		Poorly-graded Sand (SP)	
		very dark brown / dusky yellowish brown (10YR 2/2) alluvium wet, coarse grained with trace fines, trace gravel	
10			
15		coarsening downward, increasing well graded rounded to subrounded river gravel with depth	
20			
25		coarsening downward, increasing well graded rounded to subrounded river gravel with depth	
30			
			55.3
		Fat Clay (CH)	
35		light greenish gray (10BG 7/1) alluvium wet, coarse grained sand and fine rained rounded gravel mix	52.3

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 89.68



Bottom of borehole at 35.0 feet.

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

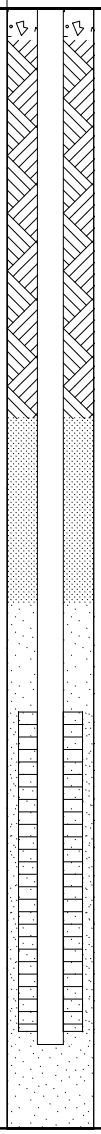
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 6/29/2016 **COMPLETED** 6/29/2016 **SURF. ELEV.** 90.9 **COORDINATES:** N:945,187.40 E:1,873,523.89
CONTRACTOR Cascade **EQUIPMENT** GeoProbe SMT **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.11 ft. **COMP.** 6.39 ft. **DELAYED** 8.81 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Sandy Lean Clay (CL)	90.9
		mottled light red / moderate reddish orange (10R 6/6) and yellow (10YR 7/6) alluvium moist, sandy	
5			85.9
		Poorly-graded Sand (SP)	
		very dark brown / dusky yellowish brown (10YR 2/2) alluvium wet, coarse grained with trace fines, trace fine gravel	
10			
15			
		coarsens downward, increasing well graded fine grained rounded to subrounded river gravel with depth	
20			
25			
		NO RECOVERY	
30			
35			55.9

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 93.68



Bottom of borehole at 35.0 feet.

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SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

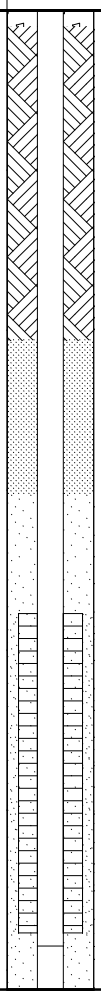
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 7/8/2016 **COMPLETED** 7/8/2016 **SURF. ELEV.** 102.7 **COORDINATES:** N:948,128.48 E:1,875,424.05
CONTRACTOR Cascade **EQUIPMENT** GeoProbe Sonic **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 30.6 ft. **GROUND WATER DEPTH: DURING** 5.5 ft. **COMP.** 7.71 ft. **DELAYED** 7.71 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Sandy Lean Clay (CL) mottled light red / moderate reddish orange (10R 6/6) and yellow (10YR 7/6) alluvium moist, trace roots	102.7
5			97.7
		Well-graded Sand (SW) light red / moderate reddish orange (10R 6/6) alluvium wet, coarse to fine grained, coarsens downward	
10			
15			87.7
		Poorly-graded Sand (SP) light red / moderate reddish orange (10R 6/6) alluvium wet, coarse grained with trace fines, angular to sub angular, trace interbedded clay lenses	
20			
25			77.7
		Fat Clay (CH) dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	
30			72.1

Natural Gamma: 75, 150, 225

WELL DATA
Top of casing Elev. = 105.41



Bottom of borehole at 30.6 feet.

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\FI

SIMPLE GEOLOGY WITH WELL - ESEE DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATION\FI

SOUTHERN COMPANY

BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 7/8/2016 **COMPLETED** 7/8/2016 **SURF. ELEV.** 106.1 **COORDINATES:** N:946,572.02 E:1,875,186.71
CONTRACTOR Cascade **EQUIPMENT** GeoProbe Sonic **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 40 ft. **GROUND WATER DEPTH: DURING** 5.11 ft. **COMP.** 6.61 ft. **DELAYED** 6.61 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

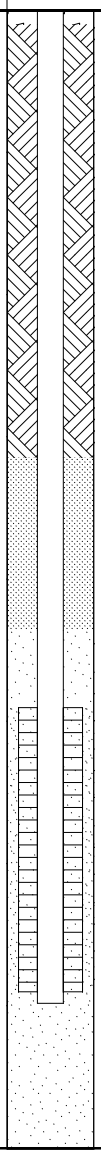
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Sandy Lean Clay (CL)	106.1
		mottled light gray (10R 7/1) and very pale brown / very pale orange (10YR 8/2) alluvium moist, trace roots	
5			
10			96.1
		Poorly-graded Sand (SP)	
		light gray (10R 7/1) alluvium wet, coarse grained with trace fines, sub angular	93.1
		Sandy Lean Clay (CL)	
15		mottled light gray (10R 7/1) and very pale brown / very pale orange (10YR 8/2) alluvium wet, sandy	91.1
		Poorly-graded Sand (SP)	
		very pale brown / very pale orange (10YR 8/2) alluvium wet, coarse grained with trace fines, angular, interbedded clay lenses and trace rounded river gravel	
20			
25			
30		becomes light gray color with increasing well graded rounded river gravel with depth	
35			
			68.1
		Fat Clay (CH)	
40		dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	66.1

Bottom of borehole at 40.0 feet.

Natural Gamma: 75, 150, 225

WELL DATA

Top of casing Elev. = 108.70



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BORING LOG

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 7/8/2016 **COMPLETED** 7/8/2016 **SURF. ELEV.** 106.1 **COORDINATES:** N:946,571.93 E:1,875,186.73
CONTRACTOR Cascade **EQUIPMENT** GeoProbe Sonic **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.11 ft. **COMP.** 10.11 ft. **DELAYED** 17.5 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

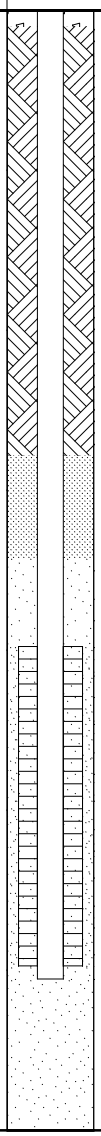
DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
		Sandy Lean Clay (CL)	106.1
		mottled dusky red / dark reddish brown (10R 3/4) and brownish yellow / dark yellowish orange (10YR 6/6) alluvium moist, trace roots	
5			
10			96.1
		Poorly-graded Sand (SP)	
		yellow (10YR 7/6) alluvium wet, fine grained with trace coarse, angular to sub angluar	
15		mottled light red / moderate reddish orange (10R 6/6) and yellowish brown (10YR 5/8) alluvium wet, coarsening downward with interbedded clay lenses	
20			
25			
30			
		light red / moderate reddish orange (10R 6/6) alluvium wet, with rounded well graded river gravel	74.1
		Fat Clay (CH)	
		dark gray (7.5YR 4/1) alluvium wet, trace sand and gravel, greenish hue	
35			71.1

Bottom of borehole at 35.0 feet.

Natural Gamma

WELL DATA

Top of casing Elev. = 108.94



Surface Seal

Annular Fill

Annular Seal

Filter Pack

Screen Tip Elevation

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 10/12/17 11:45 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATI

SOUTHERN COMPANY

LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/26/2015 **COMPLETED** 8/26/2015 **SURF. ELEV.** 104.4 **COORDINATES:** N:946,095.06 E:1,880,860.84
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 27 ft. **GROUND WATER DEPTH: DURING** 7 ft. **COMP.** 11.6 ft. **DELAYED** 16.15 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
			104.4
5, 10		**Lean Clay (CL)**	94.4
15, 20, 25		**Poorly-graded Sand (SP)**	79.4
		Fat Clay (CH)	77.4

Bottom of borehole at 27.0 feet.

WELL DATA

Top of casing Elev. = 107.69

	DEPTH
Surface Seal: concrete	2.0
Annular Fill: Cement-Bentonite Grout	10.5
Annular Seal: bentonite pellets	12.5
Filter Pack: silica filter sand	24.7
Screen Tip Elevation: 0.40 ft.	25.1
Backfill: silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/26/2015 **COMPLETED** 8/26/2015 **SURF. ELEV.** 103.4 **COORDINATES:** N:946,275.31 E:1,880,351.04
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 21 ft. **GROUND WATER DEPTH: DURING** 9 ft. **COMP.** 5 ft. **DELAYED** 7.15 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Well-graded Gravel with Clay (GW-GC)	103.4 – 101.9
5		Lean Clay (CL)	101.9 – 94.4
10, 15		Poorly-graded Sand (SP)	94.4 – 85.4
20		Fat Clay (CH)	85.4 – 82.4

Bottom of borehole at 21.0 feet.

WELL DATA

Top of casing Elev. = 106.05

	DEPTH
Surface Seal: concrete	2.0
Annular Fill: Cement-Bentonite Grout	6.1
Annular Seal: bentonite pellets	8.6
Filter Pack: silica filter sand	20.6
Screen Tip Elevation: 0.43 ft.	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 5/7/2013 **COMPLETED** 5/7/2013 **SURF. ELEV.** 103.1 **COORDINATES:** N:946,518.73 E:1,879,899.75
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** C. Sellers **CHECKED BY**
BORING DEPTH 25 ft. **GROUND WATER DEPTH: DURING** **COMP.** 18 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
			103.1
		Sandy Fat Clay (CHS)	99.6
5		Silty Sand (SM)	94.6
10		Sandy Fat Clay (CHS)	89.6
15		Clayey Sand (SC)	83.6
20		Well-graded Gravelly Sand (SWG)	79.6
25		Silty Sand (SM)	78.1

Bottom of borehole at 25.0 feet.

WELL DATA

Top of casing Elev. = 106.37

		DEPTH
Surface Seal:	concrete	0.3
Annular Fill:	Cement-Bentonite Grout	9.3
Annular Seal:	bentonite pellets	11.3
Filter Pack:	silica filter sand	23.3
Screen Tip Elevation:	0.40 ft.	23.7

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: 27 feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

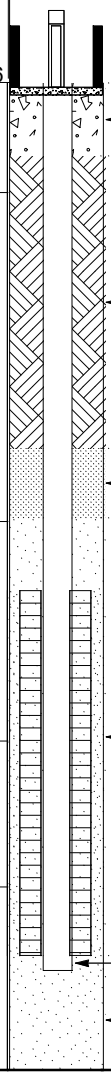
DATE STARTED 8/25/2015 **COMPLETED** 8/25/2015 **SURF. ELEV.** 105.6 **COORDINATES:** N:945,868.72 E:1,879,098.55
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 27 ft. **GROUND WATER DEPTH: DURING** 12 ft. **COMP.** 10.1 ft. **DELAYED** 4.54 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
			105.6
		Gravelly Lean Clay (GW-GM)	
			102.6
5		Lean Clay (CL)	
10			
			93.6
15		Well-graded Sand (SW)	
			87.6
20		Poorly-graded Sand (SP)	
			83.6
25		Fat Clay (CH)	
			78.6

Bottom of borehole at 27.0 feet.

WELL DATA

Top of casing Elev. = 108.39



		DEPTH
Surface Seal:	concrete	2.0
Annular Fill:	Cement-Bentonite Grout	10.0
Annular Seal:	bentonite pellets	11.9
Filter Pack:	silica filter sand	23.9
Screen Tip Elevation:	0.40 ft.	24.3
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/25/2015 **COMPLETED** 8/25/2015 **SURF. ELEV.** 98.5 **COORDINATES:** N:945,091.72 E:1,878,587.51
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 27.1 ft. **GROUND WATER DEPTH: DURING** 17.3 ft. **COMP.** 17.3 ft. **DELAYED** 3.55 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Lean Clay (CL)	98.5
		Well-graded Sand (SW)	78.5
		Fat Clay (CH)	72.5
			71.5

Bottom of borehole at 27.1 feet.

WELL DATA

Top of casing Elev. = 102.00

	DEPTH
Surface Seal: concrete	2.0
Annular Fill: Cement-Bentonite Grout	12.2
Annular Seal: bentonite pellets	14.5
Filter Pack: silica filter sand	25.7
Screen Tip Elevation: 0.40 ft.	26.1

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 5/7/2013 **COMPLETED** 5/7/2013 **SURF. ELEV.** 95.2 **COORDINATES:** N:944,928.94 E:1,877,364.10
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** **CHECKED BY**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** 8.5 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
			95.2
		Sandy Lean Clay (CLS)	
			91.7
5		Silty Clay (CL-ML)	
			86.7
10		Sandy Lean Clay (CLS)	
			81.7
15		Silty Sand (SM)	
			76.7
20		Well-graded Sand (SW)	
25			
			66.7
30		Silty Sand (SM)	65.2

Bottom of borehole at 30.0 feet.

WELL DATA

Top of casing Elev. = 98.55

		DEPTH
Surface Seal:	concrete	1.0
Annular Fill:	Cement-Bentonite Grout	
		15.1
Annular Seal:	bentonite pellets	17.1
Filter Pack:	silica filter sand	
		28.4
Screen Tip Elevation:	0.40 ft.	28.8
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/24/2015 **COMPLETED** 8/24/2015 **SURF. ELEV.** 93.8 **COORDINATES:** N:944,228.78 E:1,877,306.87
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 32 ft. **GROUND WATER DEPTH: DURING** 15.1 ft. **COMP.** 15.1 ft. **DELAYED** 8.09 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Lean Clay (CL)	93.8 – 77.8
		Poorly-graded Sand (SP)	77.8 – 65.8
		Fat Clay (CH)	65.8 – 61.8

WELL DATA

Top of casing Elev. = 97.06

DEPTH	
	Surface Seal: concrete
2.0	
	Annular Fill: Cement-Bentonite Grout
12.3	
	Annular Seal: bentonite pellets
14.3	
	Filter Pack: silica filter sand
26.9	
	Screen Tip Elevation: 0.40 ft.
27.3	
	Backfill: Natural sediment - Cave in

NOTES:

Bottom of borehole at 32.0 feet.

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 5/8/2013 **COMPLETED** 5/8/2013 **SURF. ELEV.** 89.9 **COORDINATES:** N:943,193.14 E:1,877,287.89
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** C. Sellers **CHECKED BY**
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** **COMP.** 8.5 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Well-graded Sand (SW)	89.9
		Lean Clay (CL)	86.4
		Clayey Sand (SC)	76.4
		Well-graded Sand (SW)	71.4
		Well-graded Gravel (GW)	56.4
35			54.9

Bottom of borehole at 35.0 feet.

WELL DATA

Top of casing Elev. = 93.12

		DEPTH
Surface Seal:	concrete	0.3
Annular Fill:	Cement-Bentonite Grout	13.1
Annular Seal:	bentonite pellets	15.8
Filter Pack:	silica filter sand	28.8
Screen Tip Elevation:	0.40 ft.	29.2
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: 32.4 feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 9/2/2015 **COMPLETED** 9/2/2015 **SURF. ELEV.** 85.4 **COORDINATES:** N:941,883.88 E:1,877,251.53
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 23.5 ft. **GROUND WATER DEPTH: DURING** 3 ft. **COMP.** 2.5 ft. **DELAYED** 3.5 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Poorly-graded Sand (SP)	85.4 – 80.4
5		Lean Clay (CL)	80.4 – 75.4
10		Well-graded Sand (SW)	75.4 – 70.4
15		Poorly-graded Sand (SP)	70.4 – 63.9
20		Fat Clay (CH)	63.9 – 61.9

Bottom of borehole at 23.5 feet.

WELL DATA

Top of casing Elev. = 88.27

	DEPTH
Surface Seal: concrete	2.0
Annular Fill: Cement-Bentonite Grout	7.5
Annular Seal: bentonite pellets	10.5
Filter Pack: silica filter sand	22.5
Screen Tip Elevation: 1.03 ft.	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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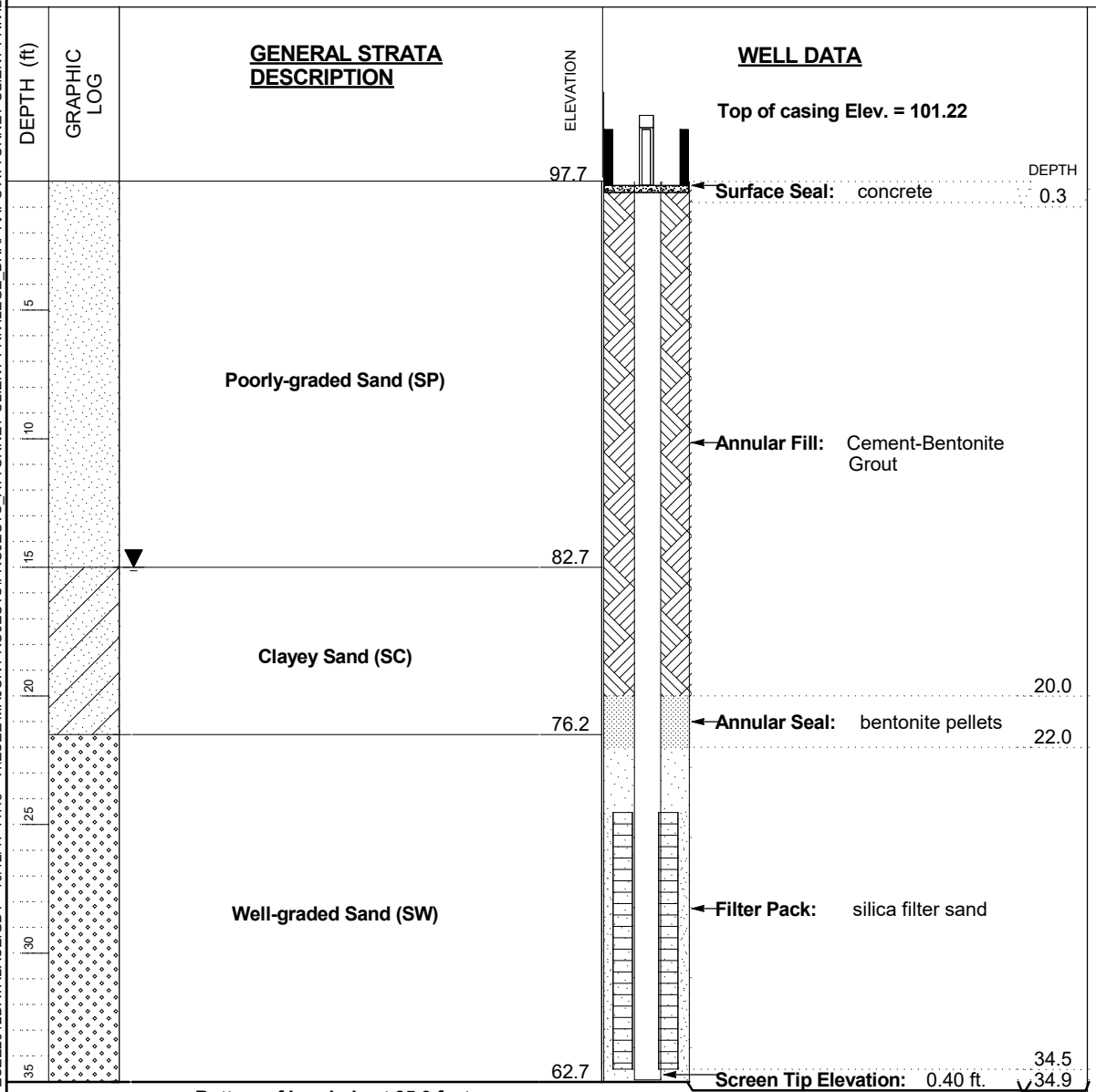
LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 4/29/2013 **COMPLETED** 4/29/2013 **SURF. ELEV.** 97.7 **COORDINATES:** N:940,847.13 E:1,877,472.94
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** C. Sellers **CHECKED BY**
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** **COMP.** 15 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION	WELL DATA	NOTES:



WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: 38.4 feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/24/2015 **COMPLETED** 8/24/2015 **SURF. ELEV.** 100.2 **COORDINATES:** N:940,132.80 E:1,878,416.08
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 37 ft. **GROUND WATER DEPTH: DURING** 15.5 ft. **COMP.** 15.5 ft. **DELAYED** 16.28 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
			100.2
5, 10, 15, 20, 25, 30		Poorly-graded Sand (SP)	
35		Fat Clay (CH)	66.2
			63.2

Bottom of borehole at 37.0 feet.

WELL DATA

Top of casing Elev. = 103.18

	DEPTH
Surface Seal: concrete	2.0
Annular Fill: Cement-Bentonite Grout	14.4
Annular Seal: bentonite pellets	18.9
Filter Pack: silica filter sand	33.5
Screen Tip Elevation: 0.40 ft.	33.9
Backfill: silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 4/24/2013 **COMPLETED** 4/24/2013 **SURF. ELEV.** 97.2 **COORDINATES:** N:940,377.37 E:1,879,757.14
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** G. Dyer **CHECKED BY**
BORING DEPTH 25 ft. **GROUND WATER DEPTH: DURING** **COMP.** 14 ft. **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION	WELL DATA	NOTES:
			97.2	Top of casing Elev. = 101.09	
				Surface Seal: concrete (DEPTH 0.3)	
5				**Annular Fill:** Cement-Bentonite Grout	
10				(10.6)	
		Well-graded Sand (SW)		**Annular Seal:** bentonite pellets (12.8)	
15				**Filter Pack:** silica filter sand	
20					
25			72.2	**Screen Tip Elevation:** 0.40 ft. (24.4)	

Bottom of borehole at 25.0 feet.

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: 28.7 feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
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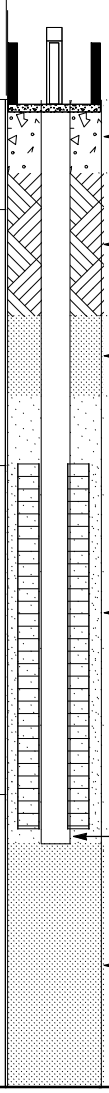
DATE STARTED 8/24/2015 **COMPLETED** 8/24/2015 **SURF. ELEV.** 83.2 **COORDINATES:** N:940,941.09 E:1,880,988.09
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 27 ft. **GROUND WATER DEPTH: DURING** 10 ft. **COMP.** 5.8 ft. **DELAYED** 6.81 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Well-graded Sand (SW)	83.2 – 80.2
5		Lean Clay (CL)	80.2 – 73.2
10			
15		Poorly-graded Sand (SP)	73.2 – 64.2
20		Fat Clay (CH)	64.2 – 56.2
25			

Bottom of borehole at 27.0 feet.

WELL DATA

Top of casing Elev. = 85.62



		DEPTH
		0.0
Surface Seal:	concrete	2.0
Annular Fill:	Cement-Bentonite Grout	5.9
Annular Seal:	bentonite pellets	8.1
Filter Pack:	silica filter sand	20.0
Screen Tip Elevation:	0.40 ft.	20.4
Backfill:	Bentonite Chips	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 10/12/17 11:46 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATI

SOUTHERN COMPANY

LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

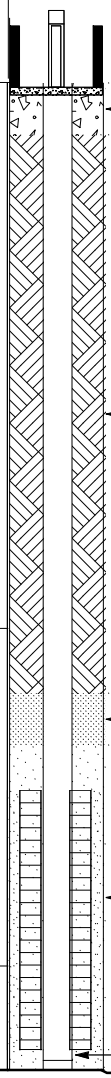
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/27/2015 **COMPLETED** 8/27/2015 **SURF. ELEV.** 88.9 **COORDINATES:** N:941,183.94 E:1,881,893.65
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 38 ft. **GROUND WATER DEPTH: DURING** 15.1 ft. **COMP.** 15.1 ft. **DELAYED** 15.99 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Lean Clay (CL)	88.9 – 67.9
		Poorly-graded Sand (SP)	67.9 – 54.9
		Clayey Sand (SC)	54.9 – 50.9
		Bottom of borehole at 38.0 feet.	

WELL DATA

Top of casing Elev. = 91.44



	DEPTH
Surface Seal: concrete	2.0
Annular Fill: Cement-Bentonite Grout	23.5
Annular Seal: bentonite pellets	25.5
Filter Pack: silica filter sand	37.2
Screen Tip Elevation: 0.40 ft.	37.6

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

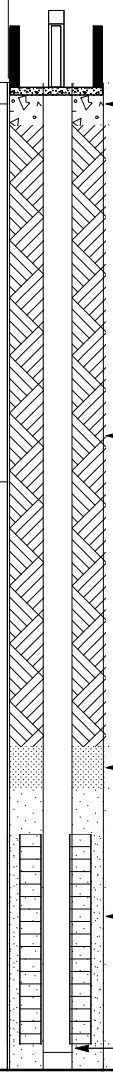
DATE STARTED 8/21/2015 **COMPLETED** 8/21/2015 **SURF. ELEV.** 106.1 **COORDINATES:** N:942,161.11 E:1,881,839.31
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 47 ft. **GROUND WATER DEPTH: DURING** 20.3 ft. **COMP.** 20.3 ft. **DELAYED** 33.59 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		(FILL)	106.1 / 105.1
5, 10, 15, 20, 25, 30, 35, 40, 45		Clayey Sand (SC)	87.1
		Poorly-graded Sand (SP)	59.1

Bottom of borehole at 47.0 feet.

WELL DATA

Top of casing Elev. = 108.74



		DEPTH
Surface Seal:	concrete	2.0
Annular Fill:	Cement-Bentonite Grout	31.6
Annular Seal:	bentonite pellets	33.6
Filter Pack:	silica filter sand	45.8
Screen Tip Elevation:	0.40 ft.	46.2

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

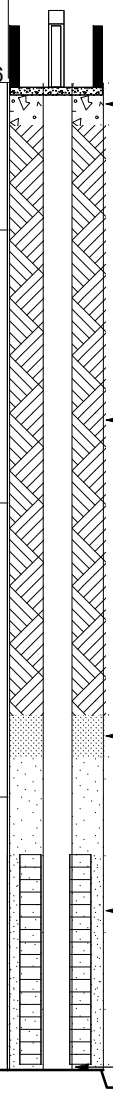
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/27/2015 **COMPLETED** 8/27/2015 **SURF. ELEV.** 103.6 **COORDINATES:** N:943,039.25 E:1,881,842.22
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 47 ft. **GROUND WATER DEPTH: DURING** 25 ft. **COMP.** 25 ft. **DELAYED** 30.24 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
			103.6
		Well-graded Sand (SW)	96.6
		Poorly-graded Sand (SP)	83.6
		Lean Clay (CL)	69.6
		Poorly-graded Sand (SP)	56.6

Bottom of borehole at 47.0 feet.

WELL DATA



Top of casing Elev. = 106.34

		DEPTH
Surface Seal:	concrete	2.0
Annular Fill:	Cement-Bentonite Grout	30.1
Annular Seal:	bentonite pellets	32.1
Filter Pack:	silica filter sand	46.7

Screen Tip Elevation: 0.26 ft.

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 8/20/2015 **COMPLETED** 8/21/2015 **SURF. ELEV.** 102.3 **COORDINATES:** N:943,761.40 E:1,881,853.45
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY F. Tiraus **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 47 ft. **GROUND WATER DEPTH: DURING** 17.3 ft. **COMP.** 17.3 ft. **DELAYED** 29.49 ft. after 72 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Poorly-graded Sand (SP)	102.3
		Lean Clay (CL)	86.3
		Poorly-graded Sand (SP)	72.3
		Fat Clay (CH)	57.3
			55.3

Bottom of borehole at 47.0 feet.

WELL DATA

Top of casing Elev. = 104.93

		DEPTH
Surface Seal:	concrete	2.0
Annular Fill:	Cement-Bentonite Grout	29.5
Annular Seal:	bentonite pellets	31.5
Filter Pack:	silica filter sand	45.1
Screen Tip Elevation:	0.40 ft.	45.5
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 12/14/2015 **COMPLETED** 12/14/2015 **SURF. ELEV.** 102.1 **COORDINATES:** N:940,503.25 E:1,877,918.18
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY L. Logan **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 46.5 ft. **GROUND WATER DEPTH: DURING** 20 ft. **COMP.** 16.4 ft. **DELAYED** 18.08 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Poorly-graded Sand (SP)	102.1
		Fat Clay (CH)	63.1
		Bottom of borehole at 46.5 feet.	55.6

WELL DATA

Top of casing Elev. = 105.36

	DEPTH
Surface Seal: concrete	2.0
Annular Fill: Cement-Bentonite Grout	21.2
Annular Seal: bentonite pellets	25.1
Filter Pack: silica filter sand	36.9
Screen Tip Elevation: 0.40 ft.	37.3
Backfill: Natural sediment - Cave in	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

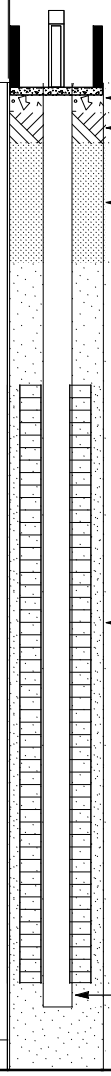
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 12/15/2015 **COMPLETED** 12/15/2015 **SURF. ELEV.** 99.3 **COORDINATES:** N:947,562.08 E:1,882,485.06
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY L. Logan **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 16.5 ft. **GROUND WATER DEPTH: DURING** 6.5 ft. **COMP.** 7.4 ft. **DELAYED** 16.68 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Well-graded Sand (SW)	99.3
		Fat Clay (CH)	83.3
		Bottom of borehole at 16.5 feet.	82.8

WELL DATA

Top of casing Elev. = 102.35



		DEPTH
Surface Seal:	concrete	0.5
Annular Fill:	Cement-Bentonite Grout	1.0
Annular Seal:	bentonite pellets	3.0
Filter Pack:	silica filter sand	15.1
Screen Tip Elevation:	0.40 ft.	15.5

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 12/16/2015 **COMPLETED** 12/16/2015 **SURF. ELEV.** 103.3 **COORDINATES:** N:947,108.60 E:1,882,404.44
CONTRACTOR Cascade **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY L. Logan **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 22.5 ft. **GROUND WATER DEPTH: DURING** 3 ft. **COMP.** 13.61 ft. **DELAYED** 13.61 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION	WELL DATA	NOTES:
			103.3	Top of casing Elev. = 106.00	
				Surface Seal: concrete (DEPTH 0.5)	
		Clayey Sand (SC)		Annular Fill: Cement-Bentonite Grout (DEPTH 5.0)	
5			96.8	Annular Seal: bentonite pellets (DEPTH 8.0)	
10		Poorly-graded Sand (SP)		Filter Pack: silica filter sand	
15					
20			83.3	Screen Tip Elevation: 0.40 ft. (DEPTH 20.1, 20.5)	
		Fat Clay (CH)	80.8		

Bottom of borehole at 22.5 feet.

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

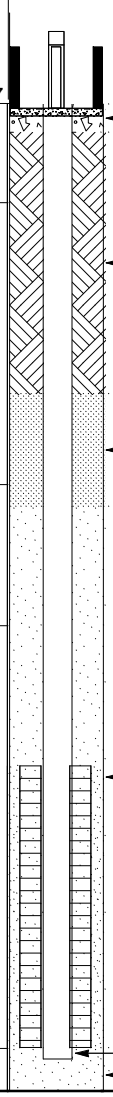
PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 5/6/2013 **COMPLETED** 5/6/2013 **SURF. ELEV.** 101.7 **COORDINATES:** N:945,490.18 E:1,889,127.70
CONTRACTOR Thompson Engineering **EQUIPMENT** D50 **METHOD** Hollow Stem Auger
DRILLED BY Phil **LOGGED BY** C. Sellers **CHECKED BY**
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.01 ft. **COMP.** 5.51 ft. **DELAYED** 5.51 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Sandy Lean Clay (CLS)	101.7 – 98.2
5, 10		Silty Sand (SM)	98.2 – 88.2
15		Well-graded Sand with Clay (SW-SC)	88.2 – 83.2
20, 25, 30		Well-graded Sand (SW)	83.2 – 68.2
35		Silty Sand (SM)	68.2 – 66.7

Bottom of borehole at 35.0 feet.

WELL DATA



Top of casing Elev. = 104.91

		DEPTH
Surface Seal:	concrete	1.0
Annular Fill:	Cement-Bentonite Grout	10.3
Annular Seal:	bentonite pellets	14.3
Filter Pack:	silica filter sand	33.5
Screen Tip Elevation:	0.40 ft.	33.9
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

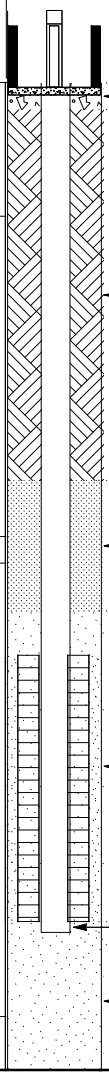
DATE STARTED 6/28/2016 **COMPLETED** 6/28/2016 **SURF. ELEV.** 87.4 **COORDINATES:** N:944,351.11 E:1,890,092.90
CONTRACTOR Cascade **EQUIPMENT** GeoProbe SMT **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 37 ft. **GROUND WATER DEPTH: DURING** 5.01 ft. **COMP.** 5.51 ft. **DELAYED** 5.51 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Sandy Lean Clay (SC)	87.4
5		Poorly-graded Sand (SP)	82.4
10			
15			
		Lean Clay (CL)	70.4 / 69.4
20			
25		Poorly-graded Sand (SP)	
30			
35		Fat Clay (CH)	52.4 / 50.4

Bottom of borehole at 37.0 feet.

WELL DATA

Top of casing Elev. = 90.14



		DEPTH
Surface Seal:	concrete	1.0
Annular Fill:	Cement-Bentonite Grout	14.9
Annular Seal:	bentonite pellets	19.8
Filter Pack:	silica filter sand	31.5
Screen Tip Elevation:	0.40 ft.	31.9
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 6/28/2016 **COMPLETED** 6/28/2016 **SURF. ELEV.** 85.5 **COORDINATES:** N:942,187.05 E:1,889,946.80
CONTRACTOR Cascade **EQUIPMENT** GeoProbe SMT **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.96 ft. **COMP.** 6.01 ft. **DELAYED** 10.16 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION	WELL DATA	NOTES:
			85.5	Top of casing Elev. = 88.89	
		Sandy Lean Clay (CL)		Surface Seal: concrete (DEPTH 1.0)	
5			80.5		
10				Annular Fill: Cement-Bentonite Grout	
15				(14.3)	
				Annular Seal: bentonite pellets	
20		Poorly-graded Sand (SP)		(19.6)	
25				Filter Pack: silica filter sand	
30				(33.3)	
35			50.5	Screen Tip Elevation: 0.40 ft. (33.7)	

Bottom of borehole at 35.0 feet.

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 6/29/2016 **COMPLETED** 6/29/2016 **SURF. ELEV.** 86.6 **COORDINATES:** N:944,430.94 E:1,889,288.39
CONTRACTOR Cascade **EQUIPMENT** GeoProbe SMT **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.01 ft. **COMP.** 6.01 ft. **DELAYED** 10.89 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Sandy Lean Clay (CL)	86.6
5			81.6
10		Well-graded Sand (SW)	
15			71.6
20		Poorly-graded Sand (SP)	
25			
30			
35		Fat Clay (CH)	53.6
			51.6

Bottom of borehole at 35.0 feet.

WELL DATA

Top of casing Elev. = 88.85

		DEPTH
Surface Seal:	concrete	1.0
Annular Fill:	Cement-Bentonite Grout	9.6
Annular Seal:	bentonite pellets	16.1
Filter Pack:	silica filter sand	30.8
Screen Tip Elevation:	0.40 ft.	31.2
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 6/29/2016 **COMPLETED** 6/29/2016 **SURF. ELEV.** 87.3 **COORDINATES:** N:942,938.83 E:1,888,319.49
CONTRACTOR Cascade **EQUIPMENT** GeoProbe SMT **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.11 ft. **COMP.** 6.33 ft. **DELAYED** 9.66 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Sandy Lean Clay (CL)	87.3
5			82.3
10		Poorly-graded Sand (SP)	
15			
20			
25			
30			55.3
35		Fat Clay (CH)	52.3

Bottom of borehole at 35.0 feet.

WELL DATA

Top of casing Elev. = 89.68

		DEPTH
Surface Seal:	concrete	1.0
Annular Fill:	Cement-Bentonite Grout	12.5
Annular Seal:	bentonite pellets	19.1
Filter Pack:	silica filter sand	31.9
Screen Tip Elevation:	0.40 ft.	32.3
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 10/12/17 11:46 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATI

SOUTHERN COMPANY

LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

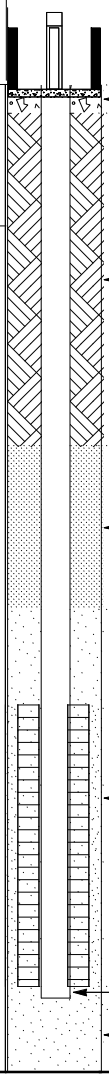
DATE STARTED 6/29/2016 **COMPLETED** 6/29/2016 **SURF. ELEV.** 90.9 **COORDINATES:** N:945,187.40 E:1,873,523.89
CONTRACTOR Cascade **EQUIPMENT** GeoProbe SMT **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.11 ft. **COMP.** 6.39 ft. **DELAYED** 8.81 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
		Sandy Lean Clay (CL)	90.9
5			85.9
10			
15			
20		Poorly-graded Sand (SP)	
25			
30			
35			55.9

Bottom of borehole at 35.0 feet.

WELL DATA

Top of casing Elev. = 93.68



		DEPTH
Surface Seal:	concrete	1.0
Annular Fill:	Cement-Bentonite Grout	12.8
Annular Seal:	bentonite pellets	18.6
Filter Pack:	silica filter sand	32.0
Screen Tip Elevation:	0.40 ft.	32.4
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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SOUTHERN COMPANY

LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 7/8/2016 **COMPLETED** 7/8/2016 **SURF. ELEV.** 102.7 **COORDINATES:** N:948,128.48 E:1,875,424.05
CONTRACTOR Cascade **EQUIPMENT** GeoProbe SMT **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 30.6 ft. **GROUND WATER DEPTH: DURING** 5.5 ft. **COMP.** 7.71 ft. **DELAYED** 7.71 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION	WELL DATA	NOTES:
			102.7	Top of casing Elev. = 105.41; Surface Seal: concrete (DEPTH 0.5)	
		Sandy Lean Clay (CL)	97.7	Annular Fill: Cement-Bentonite Grout	
5					
10		Well-graded Sand (SW)		(DEPTH 10.3) Annular Seal: bentonite pellets	
15			87.7	(DEPTH 15.1)	
20		Poorly-graded Sand (SP)		Filter Pack: silica filter sand	
25			77.7		
		Fat Clay (CH)		(DEPTH 28.8) Screen Tip Elevation: 0.40 ft. (DEPTH 29.2)	
30			72.1		

Bottom of borehole at 30.6 feet.

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

2012 GEOTECH LOG WITH WELL - ESEE2012DATABASE.GDT - 10/12/17 11:46 - T:\ESEE MAJOR PROJECTS\PROJECTS_ATTORNEY CLIENT PRIVILEGE_DRAFT\APC ATTORNEY CLIENT PRIVILEGED\PLANT GREENE CO\ACES2532 GREENE CO CHARACTERIZATI

SOUTHERN COMPANY

LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 7/8/2016 **COMPLETED** 7/8/2016 **SURF. ELEV.** 106.1 **COORDINATES:** N:946,572.02 E:1,875,186.71
CONTRACTOR Cascade **EQUIPMENT** GeoProbe SMT **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 40 ft. **GROUND WATER DEPTH: DURING** 5.11 ft. **COMP.** 6.61 ft. **DELAYED** 6.61 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
			106.1
5		Sandy Lean Clay (CL)	
10			96.1
		Poorly-graded Sand (SP)	93.1
15		Sandy Lean Clay (CL)	91.1
20		Poorly-graded Sand (SP)	
25			
30			
35			
			68.1
40		Fat Clay (CH)	66.1

Bottom of borehole at 40.0 feet.

WELL DATA

Top of casing Elev. = 108.70

	DEPTH
Surface Seal: concrete	0.5
Annular Fill: Cement-Bentonite Grout	15.7
Annular Seal: bentonite pellets	21.8
Filter Pack: silica filter sand	34.5
Screen Tip Elevation: 0.40 ft.	34.9
Backfill: silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

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SOUTHERN COMPANY

LOG OF WELL INSTALLATION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT PLANT GREENE COUNTY CCR
LOCATION PLANT GREENE COUNTY

DATE STARTED 7/8/2016 **COMPLETED** 7/8/2016 **SURF. ELEV.** 106.1 **COORDINATES:** N:946,571.93 E:1,875,186.73
CONTRACTOR Cascade **EQUIPMENT** GeoProbe SMT **METHOD** Rotosonic
DRILLED BY M. Rodrigues **LOGGED BY** S. Baxter **CHECKED BY** B. Coates
BORING DEPTH 35 ft. **GROUND WATER DEPTH: DURING** 5.11 ft. **COMP.** 10.11 ft. **DELAYED** 17.5 ft. after 24 hrs.
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	GENERAL STRATA DESCRIPTION	ELEVATION
			106.1
5		Sandy Lean Clay (CL)	
10			96.1
15		Poorly-graded Sand (SP)	
20			
25			
30			74.1
35		Fat Clay (CH)	71.1

Bottom of borehole at 35.0 feet.

WELL DATA

Top of casing Elev. = 108.94

		DEPTH
Surface Seal:	concrete	0.5
Annular Fill:	Cement-Bentonite Grout	13.9
Annular Seal:	bentonite pellets	17.1
Filter Pack:	silica filter sand	29.9
Screen Tip Elevation:	0.40 ft.	30.3
Backfill:	silica filter sand	

NOTES:

WELL SPECIFICATIONS

Casing Diameter: 2 inches **Screen Diameter:** 2 inches
Casing Material: Schedule 40 PVC **Screen Length:** 10 feet **Screen Material:** PVC
Casing Length: feet **Screen Mesh:** 0.010 **PrePack Screen:** Yes

7630-18-1575.01

SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/9/2019 **COMPLETED** 1/9/2019 **SURF. ELEV.** 112.5 **COORDINATES:** N:945,903 ft. E:1,879,976 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 25 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Poorly-graded Sand (SP)	111.5		
		- Moist to dry, dark gray with some brown, fine to coarse SAND - SP (BOTTOM ASH)	111.1		
		Silt (ML)			
		- Dry, dark gray SILT with trace of sand - ML			
5		**Poorly-graded Sand (SP)**			
		- Moist, dark gray, fine to coarse SAND - SP (BOTTOM ASH)			
10			102.5		
		Poorly-graded Sand with Silt (SP-SM)			
		- Wet, dark gray and very dark gray, fine to coarse SAND with silt - SP-SM (BOTTOM ASH)			
15					
20					
			91.5		
		Fat Clay (CH)			
		- Wet, gray and yellowish brown, fat CLAY - CH	89.5		
		Poorly-graded Sand with Clay (SP-SC)	89.0		
25		- Wet, dark gray, fine to coarse SAND with clay - SP-SC (BOTTOM ASH)	87.5		
		Fat Clay (CH)			
		- Wet, gray and yellowish brown, fat CLAY - CH			
		Bottom of borehole at 25.0 feet.			
30					
35					
40					

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/9/2019 **COMPLETED** 1/9/2019 **SURF. ELEV.** 110.2 **COORDINATES:** N:944,621 ft. E:1,880,607 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 25 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Silt (ML) - Wet, dark gray and gray SILT with trace of sand - ML			
5					
10			100.2		
		Silt (ML) - Wet, dark gray and gray SILT and contains organics - ML	99.2 98.2		
		Silt (ML) - Moist, dark gray and gray SILT with sand - ML			
15		**Poorly-graded Sand (SP)** - Moist to wet, dary gray and very dark gray, fine to coarse SAND with trace of silt - SP (BOTTOM ASH)			
20			90.2		
		Silty Sand (SM) - Wet, dark gray, fine to coarse, silty SAND - SM (BOTTOM ASH)	87.7		
		Poorly-graded Sand (SP) - Moist, dark gray and very dark gray, fine to coarse SAND - SP (BOTTOM ASH)			
25			85.2		

Bottom of borehole at 25.0 feet.

30
35
40

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/7/2019 **COMPLETED** 1/7/2019 **SURF. ELEV.** 105.0 **COORDINATES:** N:947,526 ft. E:1,878,575 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Sandy Silt (MLS)	104.7		
		- Moist, brown and dark brown, sandy SILT and contains organic roots - ML	102.7		
		Lean Clay (CL)			
		- Dry, strong brown and brown, sandy, lean CLAY - CL			
5		**Poorly-graded Sand (SP)**			
		- Dry, strong brown, red, and gray, fine to medium SAND with trace of clay - SP			
10			95.0		
		Poorly-graded Sand with Clay (SP-SC)	93.4		
		- Dry, strong brown, brown, dark brown, and tan, fine SAND with clay and contains organics - SP-SC	92.9		
		Lean Clay (CL)			
15		- Dry, strong brown, gray, and brown, lean CLAY with sand - CL			
		Poorly-graded Sand (SP)			
		- Dry, strong brown, brown, and tan, fine to medium SAND - SP			
20			85.0		
		Lean Clay (CL)	84.1		
		- Dry, very dark gray, strong brown, and brown, sandy, lean CLAY - CL	83.0		
		Poorly-graded Sand (SP)			
25		- Moist, strong brown, tan, and brown, fine to coarse SAND and contains river gravel - SP			
		Chalk (CHALK)			
		- Dry, gray CHALK			
30			75.0		
		Bottom of borehole at 30.0 feet.			
35					
40					

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/9/2019 **COMPLETED** 1/9/2019 **SURF. ELEV.** 105.0 **COORDINATES:** N:947,526 ft. E:1,878,575 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Lean Clay (CL) - Moist, strong brown, reddish brown, and brown, lean CLAY and contains organics - CL	101.0		
5		**Lean Clay (CL)** - Moist, strong brown, reddish brown, brown, and gray, lean CLAY with trace of fine sand - CL	99.0 98.5		
		Poorly-graded Sand with Clay (SP-SC) - Moist, strong brown and reddish brown, fine to coarse SAND with clay - SP-SC	96.0		
10		**Lean Clay (CL)** - Moist, strong brown, gray, and brown, lean CLAY - CL	95.0 94.6 94.0		
		Poorly-graded Sand (SP) - Moist, strong brown and brown, fine SAND - SP	92.6		
15		**Lean Clay (CL)** - Moist, red and gray, lean CLAY with fine sand - CL			
		Lean Clay (CL) - Moist, brown, red, and strong brown, lean CLAY with trace of fine sand - CL			
20		**Poorly-graded Sand (SP)** - Moist, brown, strong brown, and tan, fine SAND - SP	84.5		
		Poorly-graded Sand (SP) - Moist, strong brown and brown, fine to medium SAND and contains river gravel - SP	84.0 82.0		
25		**Lean Clay (CL)** - Moist, strong brown, brown, and red, lean CLAY with trace of sand - CL			
		Poorly-graded Sand (SP) - Moist, brown and strong brown, fine to coarse SAND and contains river gravel - SP			
30		**Chalk (CHALK)** - Dry to moist, gray CHALK	75.0		
35					
40					

Bottom of borehole at 30.0 feet.

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LOG OF TEST BORING

SOUTHERN COMPANY

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/21/2018 **COMPLETED** 12/21/2018 **SURF. ELEV.** 99.1 **COORDINATES:** N:947,501 ft. E:1,881,330 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Lean Clay (CL) - Moist, brown and dark brown, lean CLAY and contains organics - CL	97.7		
		Lean Clay (CL) - Moist, strong brown, brown, and light brown, lean CLAY with trace of sand - CL	93.3		
5		**Poorly-graded Sand (SP)** - Moist, strong brown and brown, fine to medium SAND - SP	89.1		
10		**Lean Clay (CL)**	88.1		
		- Moist, mottled strong brown, gray, dark gray, and brown, sandy, lean CLAY - CL	87.1		
		Poorly-graded Sand (SP) - Dry to moist, strong brown and tan, fine to medium SAND - SP			
15		**Poorly-graded Sand (SP)** - Dry to moist, strong brown and tan, fine to coarse SAND and contains river gravel - SP	79.1		
20		**Poorly-graded Sand (SP)** - Moist to wet, strong brown and brown, fine to coarse SAND and contains river gravel - SP	78.1		
		Lean Clay (CL) - Moist, strong brown, brown, and gray, lean CLAY - CL	74.3		
25		**Lean Clay (CL)** - Moist, gray with brown, sandy, lean CLAY and contains pebbles - CL	73.1		
		Chalk (CHALK) - Dry to moist, gray CHALK	69.1		
30		Bottom of borehole at 30.0 feet.			
35					
40					

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/10/2019 **COMPLETED** 1/10/2019 **SURF. ELEV.** 102.4 **COORDINATES:** N:946,065 ft. E:1,881,929 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 40 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Lean Clay (CL)	101.9		
		- Moist, red, strong brown, and brown, sandy, lean CLAY - CL	101.2		
		Lean Clay (CL)	100.7		
		- Moist, gray, lean CLAY with sand - CL	99.4		
		Lean Clay (CL)	98.9		
5		- Moist to wet, brown and strong brown, sandy, lean CLAY - CL			
		Lean Clay (CL)			
		- Moist, brown, strong brown, and gray, lean CLAY with sand - CL			
		Clayey Sand (SC)			
10		- Moist, gray, clayey SAND - SC	92.4		
		Lean Clay (CL)			
		- Moist, brown and strong brown, lean CLAY with trace of sand - CL			
		Lean Clay (CL)			
		- Moist, strong brown, brown, and gray, lean CLAY - CL	88.6		
15		**Poorly-graded Sand (SP)**	88.2		
		- Moist, strong brown, fine to medium SAND - SP	87.4		
		Clayey Sand (SC)			
		- Moist, strong brown, gray, and brown, fine to medium, clayey SAND - SC			
20		**Lean Clay (CL)**	82.4		
		- Moist, strong brown, brown, and gray, sandy, lean CLAY - CL			
		Poorly-graded Sand (SP)	80.9		
		- Moist, orange and tan, fine SAND - SP			
		Poorly-graded Sand (SP)	78.5		
25		- Moist, strong brown, orange, and brown, fine SAND with trace of clay - SP	77.2		
		Lean Clay (CL)			
		- Moist, brown, gray, and strong brown, sandy, lean CLAY - CL	75.2		
		Poorly-graded Sand with Clay (SP-SC)			
30		- Moist to wet, strong brown, fine to medium SAND with clay - SP-SC	72.4		
		Lean Clay (CL)	71.9		
		- Moist, strong brown and brown, lean CLAY with sand - CL	70.9		
		Poorly-graded Sand (SP)	69.9		
		- Moist, yellow, brown, and tan, fine SAND - SP	68.9		
35		**Poorly-graded Sand (SP)**			
		- Moist, tan and light gray, fine to medium SAND - SP			
		Poorly-graded Sand (SP)			
		- Dry to moist, light gray, fine SAND - SP			
40		**Poorly-graded Sand (SP)**	62.4		

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		- Moist, brown and yellowish brown, fine to coarse SAND - SP			
		Chalk (CHALK)			
		- Gray CHALK			
		Bottom of borehole at 40.0 feet.			
45					
50					
55					
60					
65					
70					
75					
80					
85					

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/17/2018 **COMPLETED** 12/17/2018 **SURF. ELEV.** 103.0 **COORDINATES:** N:943,773 ft. E:1,881,892 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 37 ft. **GROUND WATER DEPTH: DURING** 25 ft. **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Silty Sand (SM) - Dry, dark gray SAND with silt - SM (BOTTOM ASH)	101.5		
		Poorly-graded Sand (SP) - Moist, strong brown, fine to medium SAND and contains river gravel - SP	100.5		
5		**Poorly-graded Sand (SP)** - Dry, reddish yellow and light brown, fine SAND with trace of clay and contains river gravel - SP			
10			93.0		
		Poorly-graded Sand (SP) - Dry to wet, strong brown, brown, and light brown, fine to medium SAND with trace of clay and contains river gravel - SP			
15					
20					
25					
30					
			71.0		
		Poorly-graded Sand with Clay (SP-SC) - Moist, brown and reddish yellow, fine to medium SAND with clay - SP-SC	69.0		
35		**Fat Clay (CH)** - Moist, gray and strong brown, fat CLAY - CH	66.0		
40		Bottom of borehole at 37.0 feet.			

SIMPLE GEOLOGY LOG - ESEE DATABASE.GDT - 1/31/19 10:14 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

7630-18-1575.01

SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/18/2018 **COMPLETED** 12/18/2018 **SURF. ELEV.** 103.2 **COORDINATES:** N:943,074 ft. E:1,881,891 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** 21 ft. **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Poorly-graded Sand (SP)	102.2		
		- Wet, dark gray, fine to medium SAND with trace of silt and contains gravel - SP			
		Poorly-graded Sand (SP)			
5		- Moist, strong brown and brown, fine to medium SAND and contains river gravel - SP			
			95.2		
		Poorly-graded Sand (SP)	94.7		
10		- Dry, tan, fine SAND - SP	93.2		
		Poorly-graded Sand (SP)	92.2		
		- Moist, strong brown, fine to medium SAND - SP			
		Poorly-graded Sand (SP)			
15		- Moist, mottled strong brown, dark gray, and gray, fine to medium SAND - SP			
		Poorly-graded Sand (SP)			
		- Moist, strong brown, fine to medium SAND and contains river gravel - SP			
20					
			81.2		
		Poorly-graded Sand with Clay (SP-SC)	80.2		
		- Wet, dark gray and strong brown SAND with clay - SP-SC	79.2		
25		**Poorly-graded Sand (SP)**	78.2		
		- Wet, reddish yellow and brown SAND trace of clay- SP			
		Poorly-graded Sand with Clay (SP-SC)			
		- Moist, strong brown and brown SAND with clay - SP-SC			
		Fat Clay (CH)			
30		- Moist, gray and strong brown, fat CLAY with trace of fine sand - CH	73.2		
35					
40					

Bottom of borehole at 30.0 feet.

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/18/2018 **COMPLETED** 12/18/2018 **SURF. ELEV.** 106.5 **COORDINATES:** N:941,853 ft. E:1,881,864 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 51 ft. **GROUND WATER DEPTH: DURING** 40.5 ft. **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Poorly-graded Gravel (GP)	106.3		
		- Dry GRAVEL - GP	104.0		
		Lean Clay (CL)	103.0		
		- Moist, dark gray, strong brown, and brown, lean CLAY with sand - CL			
		Poorly-graded Sand (SP)			
		- Moist, strong brown, fine to medium SAND - SP			
10		**Poorly-graded Sand with Clay (SP-SC)**	96.5		
		- Moist, strong brown and brown, fine to medium SAND with clay - SP-SC	94.5		
		Poorly-graded Sand (SP)	93.5		
		- Moist, strong brown, fine to medium SAND and contains river gravel - SP			
		Lean Clay (CL)			
		- Moist, strong brown and brown, lean CLAY with fine sand - CL			
20		**Poorly-graded Sand (SP)**	86.5		
		- Moist, brown and strong brown, fine to medium SAND with trace of clay - SP	85.5		
		Poorly-graded Sand (SP)	84.5		
		- Moist, strong brown, fine to coarse SAND and contains rock fragments - SP	83.5		
		Lean Clay (CL)	82.5		
30		- Moist, strong brown, brown, and gray, lean CLAY with trace of fine to medium sand - CL	76.5		
		Poorly-graded Sand (SP)	75.5		
		- Moist, strong brown, fine to medium SAND and contains rock fragments - SP	74.5		
		Poorly-graded Sand (SP)			
		- Moist, gray and brown, fine to medium SAND and contains organics and roots - SP			
40		**Poorly-graded Sand (SP)**	66.5		
		- Moist, gray and strong brown, fine to medium SAND with trace of clay - SP	66.0		
		Clayey Sand (SC)	65.5		
		- Moist, strong brown, brown, and gray, fine to medium, clayey SAND - SC			
		Poorly-graded Sand (SP)			
		- Moist, strong brown, fine to coarse SAND and contains river grave - SP			
50		**Poorly-graded Sand (SP)**	55.5		
		- Moist to wet, brown, fine to coarse SAND - SP			
		Poorly-graded Sand with Clay (SP-SC)			

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		- Moist, brown and strong brown, fine to medium SAND with clay - SP-SC			
		Poorly-graded Sand (SP)			
60		- Wet, brown, fine to coarse SAND - SP			
		Poorly-graded Sand (SP)			
		- Moist, brown and strong brown, fine to coarse SAND and contains river gravel - SP			
		Bottom of borehole at 51.0 feet.			
70					
80					
90					
100					
110					
120					

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/19/2018 **COMPLETED** 12/19/2018 **SURF. ELEV.** 84.4 **COORDINATES:** N:941,129 ft. E:1,881,918 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** 21 ft. **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Lean Clay (CL) - Moist, brown and strong brown, lean CLAY with trace of silt - CL	82.4		
		Lean Clay (CL) - Dry to moist, yellowish brown and brown, lean CLAY with silt - CL	81.4		
5		**Lean Clay (CL)** - Moist, gray, strong brown, and brown, lean CLAY - CL			
10			72.9		
		Clayey Sand (SC) - Moist to wet, gray, strong brown, and brown, fine, clayey SAND - SC			
15			69.4		
		Poorly-graded Sand (SP) - Moist to wet, brown and strong brown, fine to coarse SAND - SP			
20					
			62.4		
		Poorly-graded Sand (SP) - Moist, brown and strong brown, fine to coarse SAND and contains river gravel - SP			
25					
30			54.4		
		Bottom of borehole at 30.0 feet.			
35					
40					

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/19/2018 **COMPLETED** 12/19/2018 **SURF. ELEV.** 82.9 **COORDINATES:** N:940,655 ft. E:1,880,744 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Lean Clay (CL)	81.9		
		- West, brown, lean CLAY and contains organics - CL	81.4		
		Lean Clay (CL)			
		- Moist, strong brown and brown, sandy, lean CLAY - CL			
5		**Lean Clay (CL)**			
		- Moist, dark brown, strong brown, reddish brown, and gray, lean CLAY - CL			
10			72.9		
		Lean Clay (CL)			
		- Moist, dark brown, strong brown, and gray, lean CLAY with trace of sand - CL	70.9		
			70.4		
		Poorly-graded Sand (SP)	69.9		
15		- Moist, brown, gray, and tan, fine to coarse SAND wih trace of clay - SP			
		Poorly-graded Sand with Clay (SP-SC)	66.9		
		- Moist to wet, brown and gray, fine to medium SAND with clay - SP-SC			
		Lean Clay (CL)			
20		- Moist, gray and brown, lean CLAY with trace of sand - CL	62.9		
		Poorly-graded Sand (SP)			
		- Moist, strong brown and yellowish red, fine to coarse SAND - SP			
		Chalk (CHALK)			
		- Dry to moist, gray CHALK	58.9		
25		**Poorly-graded Sand (SP)**			
		- Moist, gray and brown, fine to coarse SAND and contains river gravel - SP	55.9		
		Chalk (CHALK)			
		- Dry to moist, gray CHALK			
30			52.9		
		Bottom of borehole at 30.0 feet.			
35					
40					

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/20/2018 **COMPLETED** 12/20/2018 **SURF. ELEV.** 84.7 **COORDINATES:** N:941,658 ft. E:1,877,148 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Lean Clay (CL)	84.1		
		- Moist, brown and strong brown, lean CLAY with sand - CL	83.8		
		Poorly-graded Sand (SP)			
		- Moist, dark gray, brown, and gray, fine to coarse SAND with trace of clay - SP			
5		**Poorly-graded Sand (SP)**			
		- Moist, strong brown, fine SAND - SP			
10			74.7		
		Clayey Sand (SC)	73.7		
		- Moist, gray, strong brown, and bgrown, fine to medium, clayey SAND - SC	72.7		
		Lean Clay (CL)	70.7		
15		- Moist, gray, strong brown, and brown, lean CLAY with sand - CL	69.7		
		Lean Clay (CL)			
		- Moist, gray with brown, lean CLAY - CL	67.7		
		Lean Clay (CL)	66.7		
		- Moist, brown and strong brown, sandy, lean CLAY - CL			
20		**Lean Clay (CL)**			
		- Moist, gray and strong brown, lean CLAY - CL	63.7		
		Clayey Sand (SC)			
		- Moist, brown, yellowish brown, and strong brown, fine to medium, clayey SAND - SC	61.7		
25		**Poorly-graded Sand (SP)**			
		- Moist, yellowish brown and brown, ine to medium SAND - SP			
		Poorly-graded Sand (SP)			
		- Moist, strong brown and brown, fine to coarse SAND and contains river gravel - SP			
		Chalk (CHALK)			
30		- Dry to moist, gray CHALK	54.7		
35					
40					

Bottom of borehole at 30.0 feet.

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/20/2018 **COMPLETED** 12/20/2018 **SURF. ELEV.** 89.0 **COORDINATES:** N:942,942 ft. E:1,877,164 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Lean Clay (CL)	88.5		
		- Moist to wet, brown and strong brown, lean CLAY with trace of sand - CL	87.0		
		Lean Clay (CL)			
		- Moist to wet, brown and strong brown, lean CLAY and contains organics - CL	85.0		
5		**Lean Clay (CL)**			
		- Moist to wet, brown and dark brown, lean CLAY with sand and contains organics - CL			
		Lean Clay (CL)			
10		- Moist, brown and yellowish brown, sandy, lean CLAY - CL	79.0		
		Clayey Sand (SC)			
		- Moist, brown, fine to medium, clayey SAND - SC	75.0		
15		**Lean Clay (CL)**	74.0		
		- Moist, strong brown and gray, lean CLAY with trace of sand - CL			
		Poorly-graded Sand (SP)			
		- Moist, strong brown, brown, reddish yellow, and tan, fine to medium SAND - SP			
20			69.0		
		Poorly-graded Sand (SP)			
		- Moist to wet, brown and yellowish brown, fine to coarse SAND and contains river gravel- SP			
25			64.0		
		Chalk (CHALK)			
		- Dry to moist, gray CHALK			
30			59.0		
		Bottom of borehole at 30.0 feet.			
35					
40					

SIMPLE GEOLOGY LOG - ESEE DATABASE.GDT - 1/31/19 10:14 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

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SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/10/2019 **COMPLETED** 1/10/2019 **SURF. ELEV.** 98.2 **COORDINATES:** N:946,172 ft. E:1,879,006 ft.
CONTRACTOR Walker Hill Environmental **EQUIPMENT** Sonic **METHOD** Rotosonic
DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Lean Clay (CL) - Moist to wet, strong brown and brown, lean CLAY with sand - CL	96.7		
		Lean Clay (CL) - Moist, strong brown, brown, and gray, lean CLAY with trace of sand and contains organics - CL			
5			92.2		
		Lean Clay (CL) - Mois, gray and strong brown, sandy, lean CLAY - CL	90.7		
		Clayey Sand (SC) - Moist, gray and strong brown, fine, clayey SAND - SC	88.2		
10		**Lean Clay (CL)** - Moist, light brown and brown, lean CLAY with trace of sand - CL	87.7		
		Poorly-graded Sand with Clay (SP-SC) - Moist, brown, dark brown, red, and gray, fine to medium SAND with clay - SP-SC	85.7		
15		**Lean Clay (CL)** - Moist, gray, lean CLAY - CL	84.2		
		Poorly-graded Sand (SP) - Moist to wet, tan, fine to coarse SAND - SP	82.2		
20		**Poorly-graded Sand (SP)** - Moist to wet, strong brown and brown, fine to medium SAND - SP	81.7		
		Poorly-graded Sand (SP) - Moist to wet, strong brown and brown, fine to coarse SAND and contains pebbles - SP	80.0		
25		**Lean Clay (CL)** - Moist, strong brown and brown, lean CLAY with trace of sand - CL	78.2		
		Poorly-graded Sand (SP) - Wet, strong brown and brown, fine to coarse SAND - SP	75.7		
		Chalk (CHALK) - Moist, gray, weather CHALK	74.7		
30		**Chalk (CHALK)** - Dry to moist, gray CHALK	68.2		
35					
40					

Bottom of borehole at 30.0 feet.

SIMPLE GEOLOGY LOG - ESEE DATABASE.GDT - 1/31/19 10:14 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/7/2019 **COMPLETED** 1/7/2019 **GROUND ELEVATION** 105 ft. **COORDINATES** N 947526 ft., E 1878575 ft.

CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **BORING DEPTH** 30 ft.

GROUND WATER DEPTH: DURING **COMP.** **DELAYED**

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA ELEV.	Strata	DEPTH (ft)	WELL DATA	ELEV. (DEPTH)	COMMENTS
			Protective steel cover 3-foot square concrete pad Top of casing Elev. = 108.16		
104.7					
102.7					
		5	Surface Seal: concrete		
				97.0 (8.0)	
95.0		10	Annular Seal: bentonite pellets		
93.4					
92.9				93.0 (12.0)	
			Filter: silica filter sand	91.0 (14.0)	
		15			
			Well: 2" OD PVC (SCH 40) **Screen: 10 ft. slotted**		
85.0		20			
84.1					
83.0					
				81.0 (24.0)	
		25	Sump:0.40 ft.	80.6 (24.4)	
			Backfill:Silica Sand		
75.0		30			

2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:35 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/9/2019 **COMPLETED** 1/9/2019 **GROUND ELEVATION** 105 ft. **COORDINATES** N 947526 ft., E 1878575 ft.

CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **BORING DEPTH** 30 ft.

GROUND WATER DEPTH: DURING **COMP.** **DELAYED**

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA ELEV.	Strata	DEPTH (ft)	WELL DATA	ELEV. (DEPTH)	COMMENTS
			Protective steel cover 3-foot square concrete pad Top of casing Elev. = 108.16		
101.0			Surface Seal: concrete		
99.0		5		99.0 (6.0)	
98.5					
96.0			Annular Seal: bentonite pellets		
95.0		10		95.0 (10.0)	
94.6					
94.0			Filter: silica filter sand		
92.6				93.0 (12.0)	
		15	**Well: 2" OD PVC (SCH 40)** **Screen: 10 ft. slotted**		
		20			
84.5					
84.0				83.0 (22.0)	
			Sump:0.40 ft.		
82.0				82.6 (22.4)	
		25	Backfill:Silica Sand		
75.0		30			

2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:35 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/21/2018 **COMPLETED** 12/21/2018 **GROUND ELEVATION** 99.07 ft. **COORDINATES** N 947501 ft., E 1881330 ft.

CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **BORING DEPTH** 30 ft.

GROUND WATER DEPTH: DURING **COMP.** **DELAYED**

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA | **WELL DATA** | **COMMENTS**

2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:35 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/10/2019 **COMPLETED** 1/10/2019 **GROUND ELEVATION** 102.37 ft. **COORDINATES** N 946065 ft., E 1881929 ft.

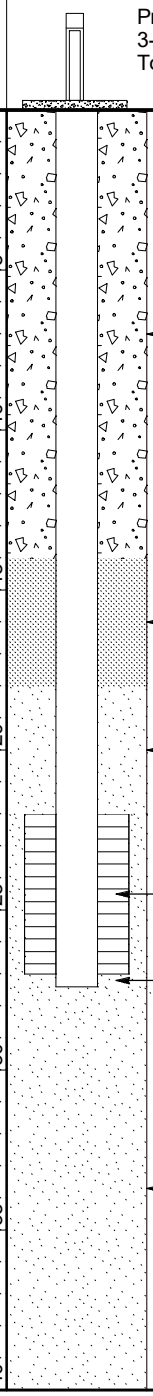
CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **BORING DEPTH** 40 ft.

GROUND WATER DEPTH: DURING **COMP.** **DELAYED**

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA | **WELL DATA** | **COMMENTS**



ELEV.	Strata	DEPTH (ft)	ELEV. (DEPTH)
101.9			
101.2			
100.7			
99.4			
98.9		5	
92.4		10	
88.6			88.4 (14.0)
88.2		15	
87.4			
			84.4 (18.0)
82.4		20	
80.9			80.4 (22.0)
78.5			
77.2		25	
75.2			75.4 (27.0)
			75.0 (27.4)
72.4		30	
71.9			
70.9			
69.9			
68.9			
		35	
62.4		40	

2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:36 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/17/2018 **COMPLETED** 12/17/2018 **GROUND ELEVATION** 102.95 ft. **COORDINATES** N 943773 ft., E 1881892 ft.

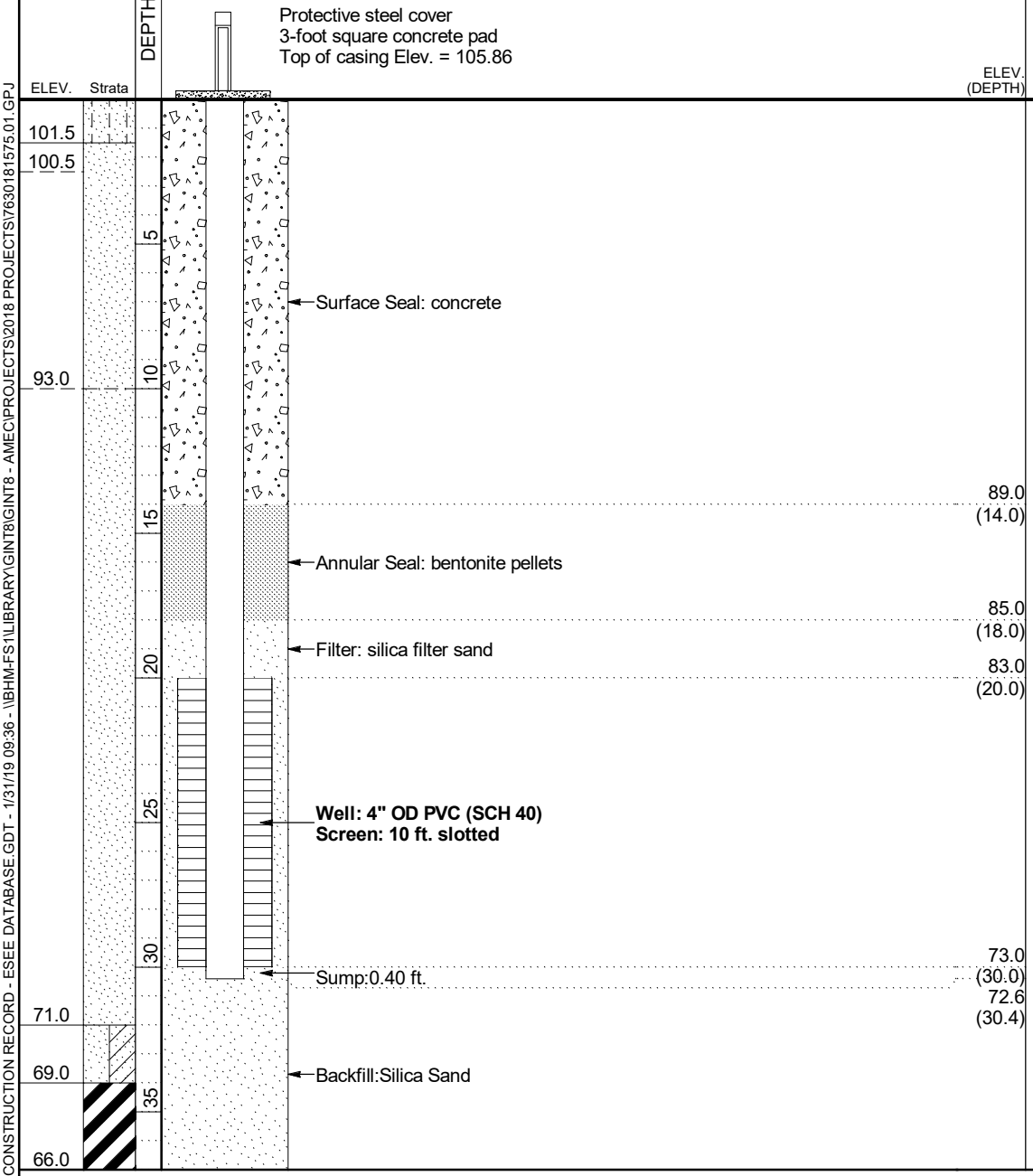
CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **BORING DEPTH** 37 ft.

GROUND WATER DEPTH: DURING 25 ft. **COMP.** **DELAYED**

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA | **WELL DATA** | **COMMENTS**



2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:36 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/18/2018 **COMPLETED** 12/18/2018 **GROUND ELEVATION** 103.2 ft. **COORDINATES** N 943074 ft., E 1881891 ft.

CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **BORING DEPTH** 30 ft.

GROUND WATER DEPTH: DURING 21 ft. **COMP.** **DELAYED**

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA ELEV.	Strata	DEPTH (ft)	WELL DATA	ELEV. (DEPTH)	COMMENTS
			Protective steel cover 3-foot square concrete pad Top of casing Elev. = 106.36		
102.2			Surface Seal: concrete		
		5		97.2 (6.0)	
95.2			Annular Seal: bentonite pellets		
94.7					
93.2		10		93.2 (10.0)	
92.2			Filter: silica filter sand	91.2 (12.0)	
		15	**Well: 2" OD PVC (SCH 40)** **Screen: 10 ft. slotted**		
		20			
81.2			Sump:0.40 ft.	81.2 (22.0)	
80.2				80.8 (22.4)	
79.2					
78.2		25	Backfill:Silica Sand		
73.2		30			

2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:36 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/18/2018 **COMPLETED** 12/18/2018 **GROUND ELEVATION** 106.54 ft. **COORDINATES** N 941853 ft., E 1881864 ft.

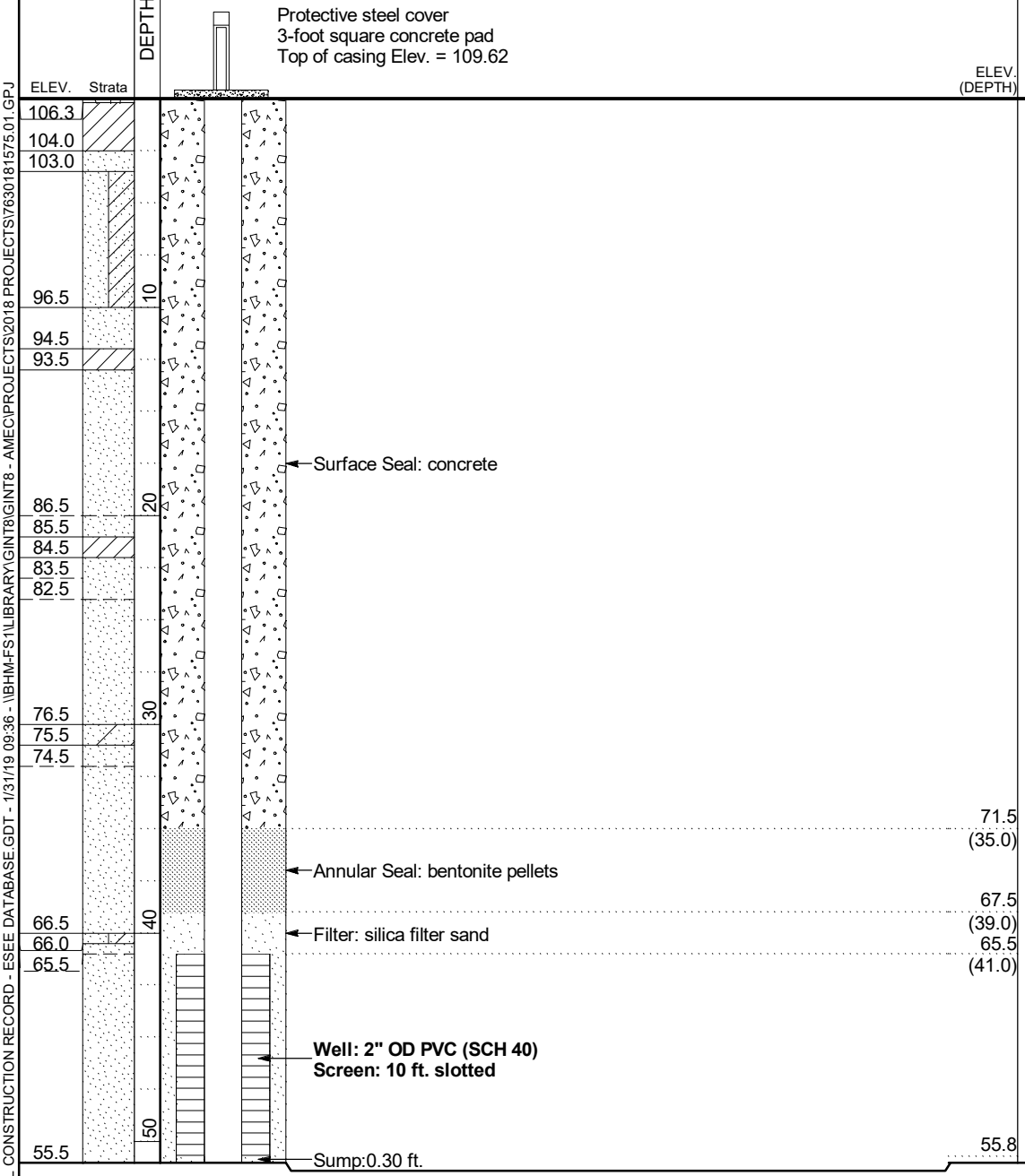
CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **BORING DEPTH** 51 ft.

GROUND WATER DEPTH: DURING 40.5 ft. **COMP.** **DELAYED**

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA | **WELL DATA** | **COMMENTS**



2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:36 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

WELL: GC-AP-MW-40H

7630-18-1575.01

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations

LOCATION Greene County, Alabama

DATE STARTED 12/19/2018 **COMPLETED** 12/19/2018 **GROUND ELEVATION** 84.43 ft. **COORDINATES** N 941129 ft., E 1881918 ft.

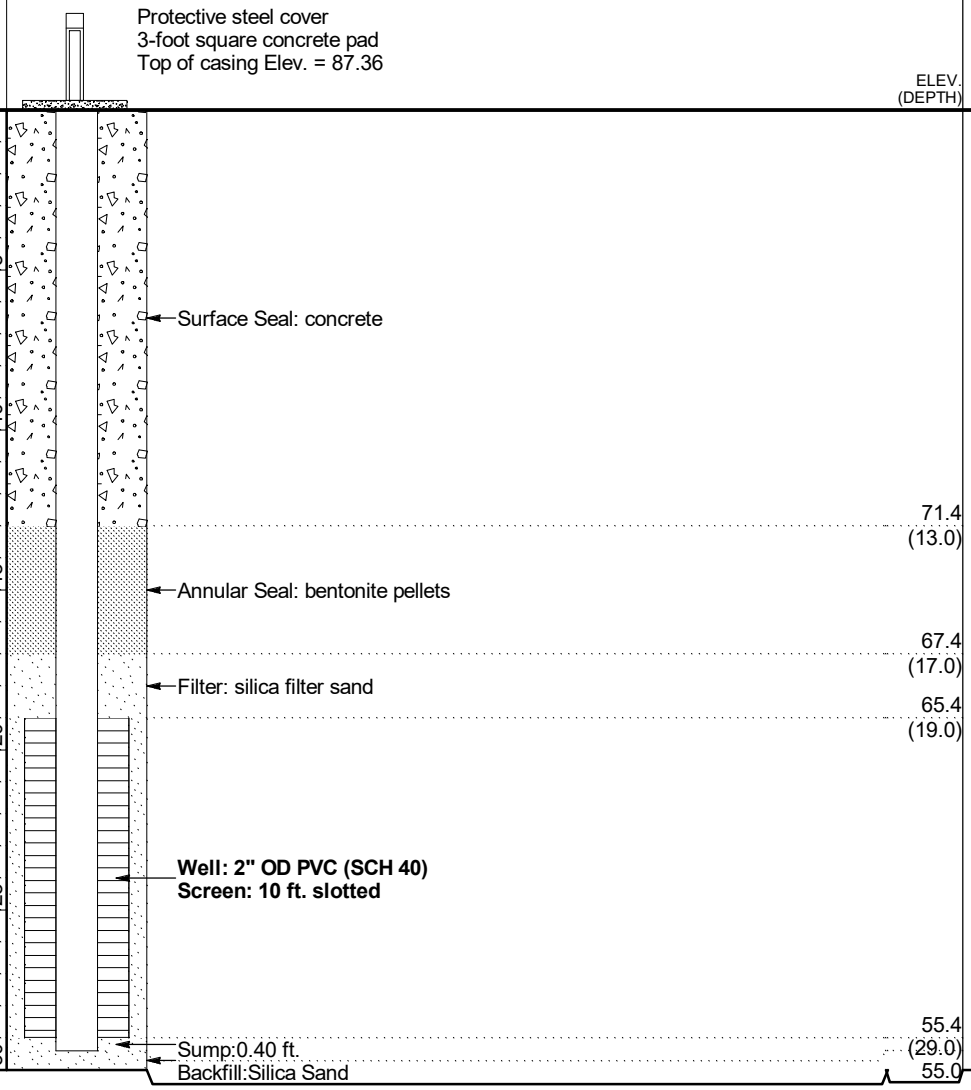
CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY _____ **LOGGED BY** Siera Jann **CHECKED BY** _____ **BORING DEPTH** 30 ft.

GROUND WATER DEPTH: DURING 21 ft. **COMP.** _____ **DELAYED** _____

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA		WELL DATA	COMMENTS
ELEV.	Strata		



2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:36 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/19/2018 **COMPLETED** 12/19/2018 **GROUND ELEVATION** 82.92 ft. **COORDINATES** N 940655 ft., E 1880744 ft.

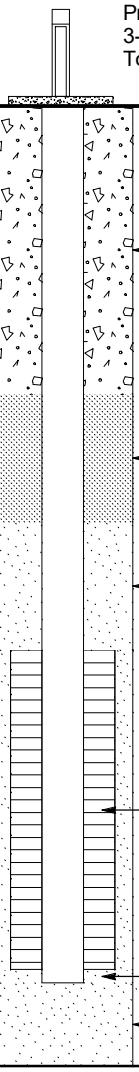
CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **BORING DEPTH** 30 ft.

GROUND WATER DEPTH: DURING **COMP.** **DELAYED**

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA | **WELL DATA** | **COMMENTS**



ELEV.	Strata	ELEV. (DEPTH)
81.9		
81.4		
		73.9 (9.0)
72.9		
70.9		
70.4		
69.9		69.9 (13.0)
66.9		
		65.9 (17.0)
62.9		
58.9		
55.9		55.9 (27.0)
		55.5 (27.4)
52.9		

2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:36 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

WELL: GC-AP-MW-42H

7630-18-1575.01

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations

LOCATION Greene County, Alabama

DATE STARTED 12/20/2018 **COMPLETED** 12/20/2018 **GROUND ELEVATION** 84.73 ft. **COORDINATES** N 941658 ft., E 1877148 ft.

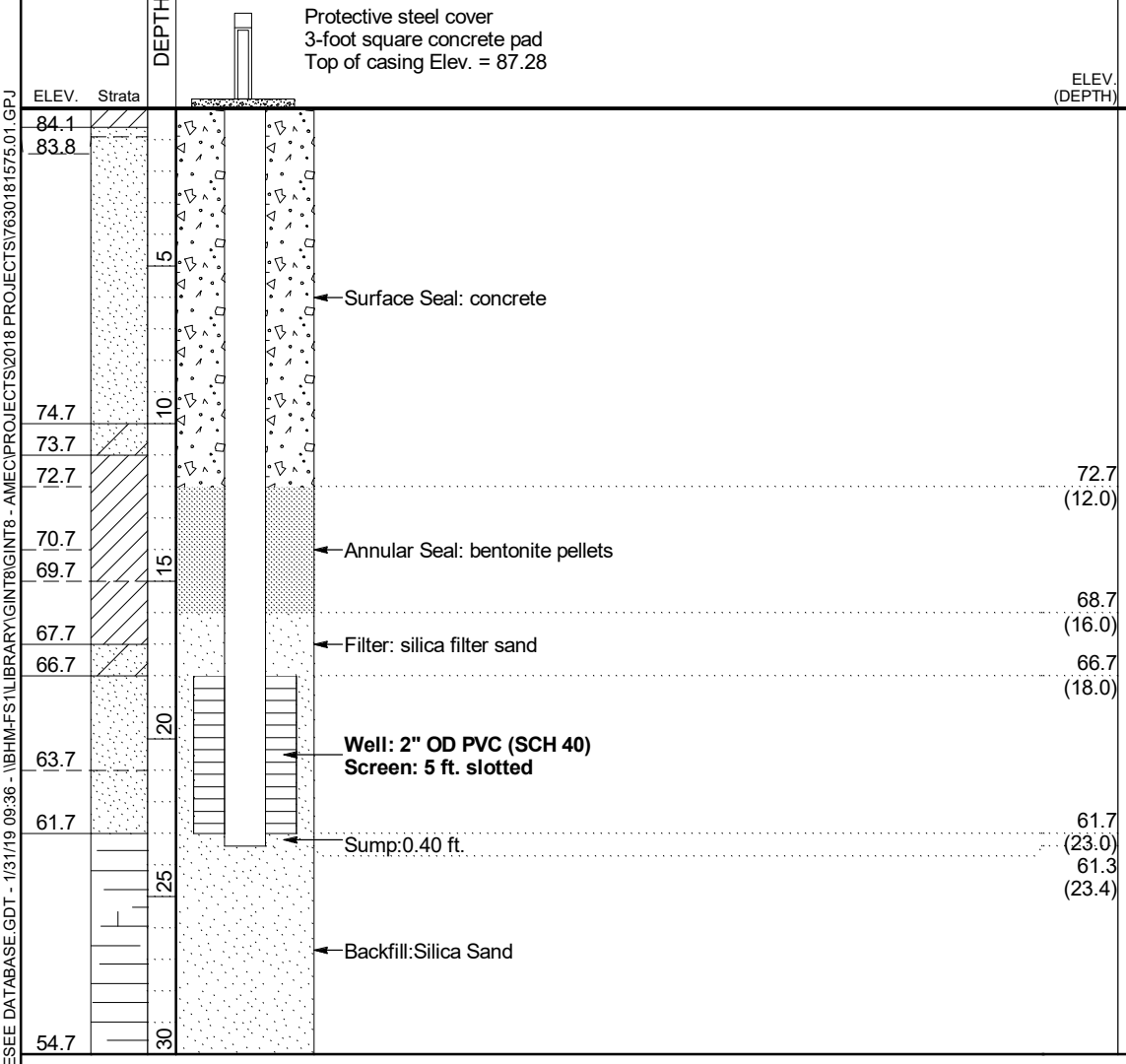
CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY _____ **LOGGED BY** Siera Jann **CHECKED BY** _____ **BORING DEPTH** 30 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** _____

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA | **WELL DATA** | **COMMENTS**



2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:36 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 12/20/2018 **COMPLETED** 12/20/2018 **GROUND ELEVATION** 89.02 ft. **COORDINATES** N 942942 ft., E 1877164 ft.

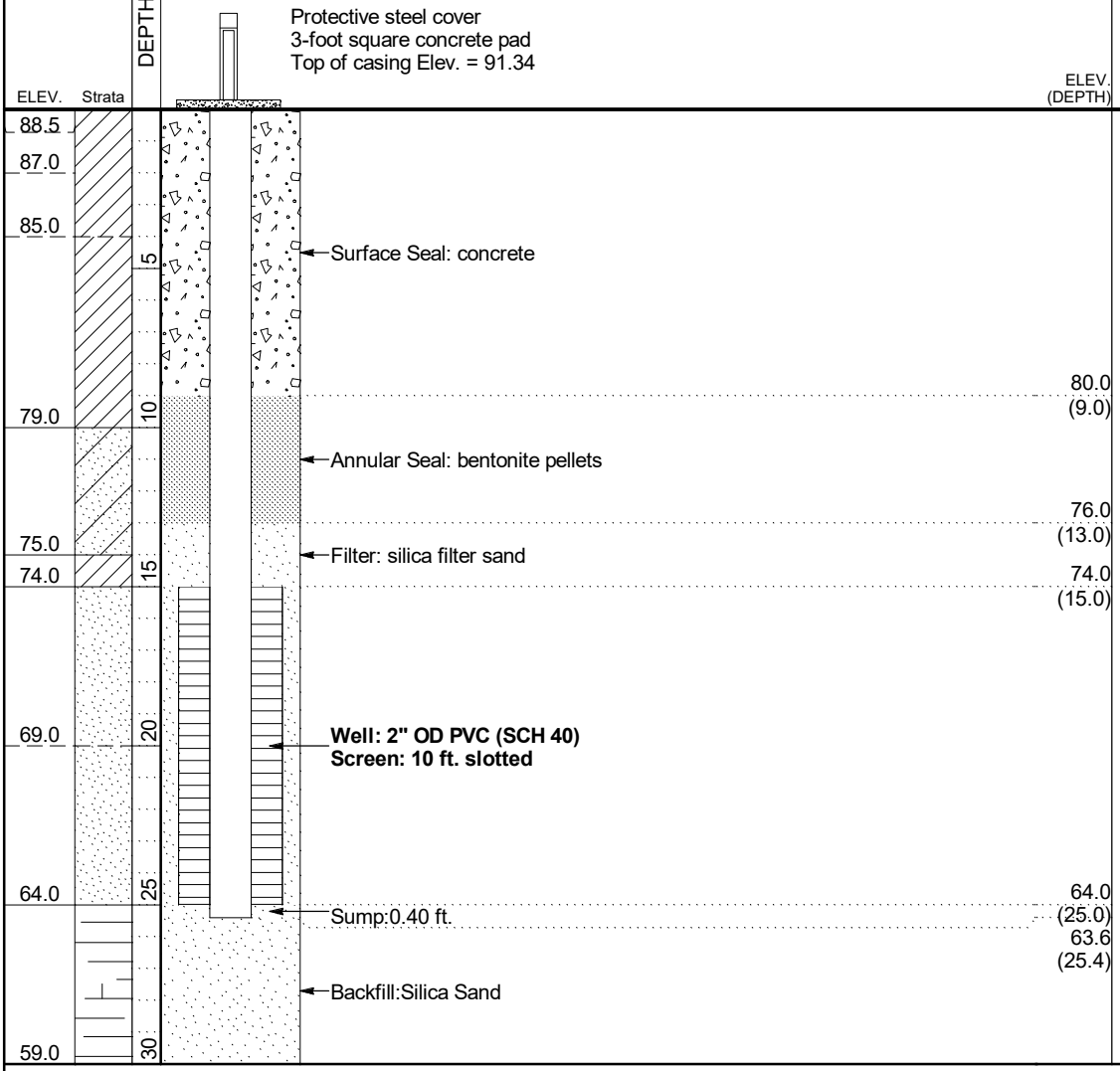
CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY **LOGGED BY** Siera Jann **CHECKED BY** **BORING DEPTH** 30 ft.

GROUND WATER DEPTH: DURING **COMP.** **DELAYED**

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA | **WELL DATA** | **COMMENTS**



2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:36 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

RECORD OF WELL CONSTRUCTION

WELL: GC-AP-MW-44H

7630-18-1575.01

SOUTHERN COMPANY

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County Well Installations
LOCATION Greene County, Alabama

DATE STARTED 1/10/2019 **COMPLETED** 1/10/2019 **GROUND ELEVATION** 98.24 ft. **COORDINATES** N 946172 ft., E 1879006 ft.

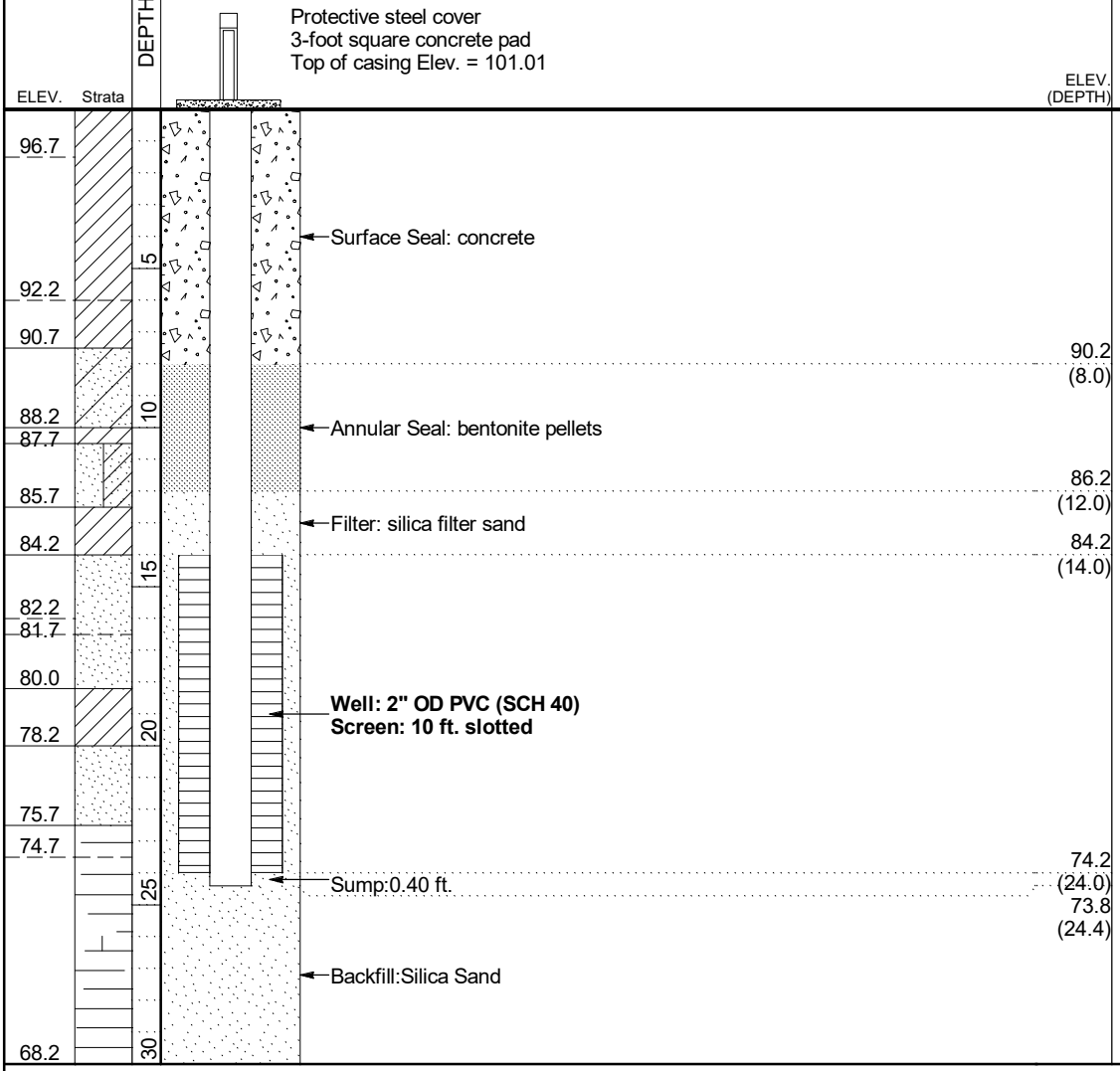
CONTRACTOR Walker Hill Environmental **METHOD** Rotosonic **EQUIPMENT** Sonic

DRILLED BY _____ **LOGGED BY** Siera Jann **CHECKED BY** _____ **BORING DEPTH** 30 ft.

GROUND WATER DEPTH: DURING _____ **COMP.** _____ **DELAYED** _____

NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

BOREHOLE DATA | **WELL DATA** | **COMMENTS**



2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 1/31/19 09:36 - \\BHM-FS1\LIBRARY\GINT8\GINT8 - AMEC\PROJECTS\2018 PROJECTS\7630181575.01.GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene Co. CCR Well Delineation
LOCATION Greene Co, Alabama

DATE STARTED 12/7/2019 **COMPLETED** 12/7/2019 **SURF. ELEV.** 92.2 **COORDINATES:** N 940,178.31 E 1,880,113.22
CONTRACTOR Cascade **EQUIPMENT** **METHOD** Rotosonic
DRILLED BY **LOGGED BY** T. Trieu **CHECKED BY** L. Noble **ANGLE** **BEARING**
BORING DEPTH 40 ft. **GROUND WATER DEPTH: DURING** **COMP.** 10 ft. **DELAYED** 15.85 ft. after 24 hrs.
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	GROUNDWATER OBSERVATIONS	WELL DATA
		Poorly-graded Sand with Silt (SP-SM) - Moist to wet, light brown with gray spots, fine SAND with silt			Completion: protective steel cover; 3-foot square concrete pad
5					
10		**Poorly-graded Sand (SP)** - Moist to wet, light yellowish brown, fine to medium, poorly graded SAND			Annular Fill: 1.5 Batch (Batch equal to 28 Gallons potable water to 2 bags (50-lbs each) cement-bentonite grout)
		Poorly-graded Sand with Silt (SP-SM) - Moist to wet, light brown with gray spots, fine SAND with silt			
15					
20					

(Continued Next Page)

SIMPLE GEOLOGY WITH WELL 2019 (WOOD 3) - ESEE DATABASE.GDT - 2/6/20 17:25 - L:\GINT8\GINT8 - AMEC\PROJECTS\2019 PROJECTS\7630181575 - 2019 GREENE CO CCR DELINEATION WELLS.GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene Co. CCR Well Delineation
LOCATION Greene Co, Alabama

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	GROUNDWATER OBSERVATIONS	WELL DATA
		Poorly-graded Sand with Silt (SP-SM) - Moist to wet, light brown with gray spots, fine SAND with silt*(Con't)*			(CONTINUED) Completion: protective steel cover; 3-foot square concrete pad Annular Seal: 1 Bucket of 3/8" TR30 bentonite pellets Filter: (20/40) silica filter sand
25					
30		**Poorly-graded Sand (SP)** - Moist to wet, light yellowish brown, fine to coarse, poorly graded SAND			**Standpipe:** **2" OD PVC (SCH 40)** Screen: 10 ft; slotted
35		**Poorly-graded Gravel (GP)** - Moist, varying color, poorly graded GRAVEL with sand			Sump:0.4 ft.
		(CHALK) - Moist, bluish gray, partially weathered CHALK			
		(CHALK) - Moist, bluish gray CHALK			Backfill:bentonite chips
40					

Bottom of borehole at 40.0 feet.

SIMPLE GEOLOGY WITH WELL 2019 (WOOD 3) - ESEE DATABASE.GDT - 2/6/20 17:25 - L:\GINT8\GINT8 - AMEC\PROJECTS\2019 PROJECTS\7630181575 - 2019 GREENE CO CCR DELINEATION WELLS.GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

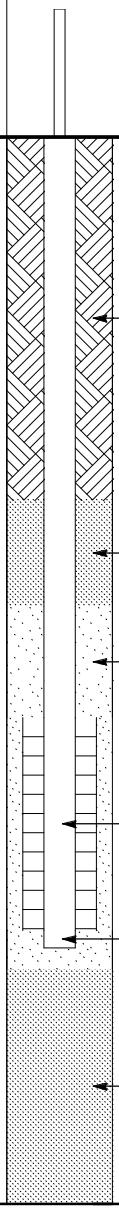
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene Co. CCR Well Delineation
LOCATION Greene Co, Alabama

DATE STARTED 12/6/2019 **COMPLETED** 12/6/2019 **SURF. ELEV.** 87.0 **COORDINATES:** N 939,921.70 E 1,877,492.23
CONTRACTOR Cascade **EQUIPMENT** **METHOD** Rotosonic
DRILLED BY **LOGGED BY** T. Trieu **CHECKED BY** L. Noble **ANGLE** **BEARING**
BORING DEPTH 25 ft. **GROUND WATER DEPTH: DURING** **COMP.** 5.42 ft. **DELAYED** 5.58 ft. after 24 hrs.
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	GROUNDWATER OBSERVATIONS
		Poorly-graded Sand with Silt (SP-SM) - Moist, brown and light brown, fine to medium SAND with silt and contains rootlets and clay spots		
5				
		Clayey Sand (SC) - Moist, mottled brown, light brown, and reddish brown, fine to medium, clayey SAND		
10				
		Poorly-graded Sand with Silt (SP-SM) - Moist, light brown and brown, fine to medium SAND with silt		
15		**Poorly-graded Sand (SP)** - Moist, light brown and brown, fine to coarse, poorly graded SAND and contains silt		
		Poorly-graded Gravel (GP) - Moist to wet, varying color, medium to coarse GRAVEL with sand		
20		**(CHALK)** - Moist, bluish gray CHALK		
25				
30		Bottom of borehole at 25.0 feet.		

WELL DATA



Completion:
protective steel cover; 3-foot square concrete pad

Annular Fill:
1 Batch (Batch equal to 14 Gallons potable water to 1 bags (50-lbs each) cement-bentonite grout)

Annular Seal:
1/2 Bucket of 3/8" TR30 bentonite pellets

Filter:
(20/40) silica filter sand

Standpipe:
2" OD PVC (SCH 40)
Screen:
5 ft; slotted

Sump:0.4 ft.

Backfill:bentonite chips

SIMPLE GEOLOGY WITH WELL 2019 (WOOD 3) - ESEE DATABASE.GDT - 2/6/20 17:25 - L:\GINT8\GINT8 - AMEC\PROJECTS\2019 PROJECTS\7630181575 - 2019 GREENE CO CCR DELINEATION WELLS.GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

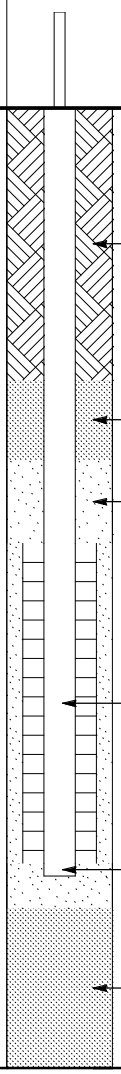
PROJECT Plant Greene Co. CCR Well Delineation
LOCATION Greene Co, Alabama

DATE STARTED 12/6/2019 **COMPLETED** 12/6/2019 **SURF. ELEV.** 88.9 **COORDINATES:** N 940,621.76 E 1,877,164.68
CONTRACTOR Cascade **EQUIPMENT** **METHOD** Rotosonic
DRILLED BY **LOGGED BY** T. Trieu **CHECKED BY** L. Noble **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** **COMP.** 5.53 ft. **DELAYED** 6.49 ft. after 24 hrs.
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	GROUNDWATER OBSERVATIONS
		Clayey Sand (SC) - Moist to wet, mottled light brown, brown, and red, fine to medium, clayey SAND and contains rootlets		
5		**Poorly-graded Sand (SP)** - Moist to wet, pale yellow and dark brown, fine to medium, poorly graded SAND and contains dark brown silty, clay spots		
10		**Poorly-graded Sand with Silt (SP-SM)** - Moist to wet, pale yellow, brown, and light brown, fine to medium SAND with silt, trace of clay spots, and contains river gravel		
15				
20		**Poorly-graded Sand with Silt (SP-SM)** - Wet, pale yellow and light brown, fine to coarse SAND with silt		
25		**Fat Clay (CH)** - Moist to wet, brown, fat CLAY **(CHALK)** - Moist, bluish gray CHALK		
30				
35				
40				

Bottom of borehole at 30.0 feet.

WELL DATA



SIMPLE GEOLOGY WITH WELL 2019 (WOOD 3) - ESEE DATABASE.GDT - 2/6/20 17:25 - L:\GINT8\GINT8 - AMEC\PROJECTS\2019 PROJECTS\7630181575 - 2019 GREENE CO CCR DELINEATION WELLS.GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

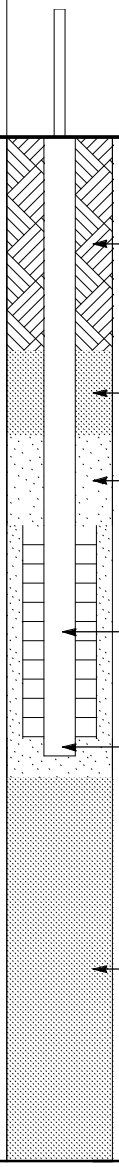
SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene Co. CCR Well Delineation
LOCATION Greene Co, Alabama

DATE STARTED 12/4/2019 **COMPLETED** 12/5/2019 **SURF. ELEV.** 99.5 **COORDINATES:** N 945,816.35 E 1,879,005.70
CONTRACTOR Cascade **EQUIPMENT** **METHOD** Rotosonic
DRILLED BY **LOGGED BY** T. Trieu **CHECKED BY** L. Noble **ANGLE** **BEARING**
BORING DEPTH 24 ft. **GROUND WATER DEPTH: DURING** **COMP.** 8.35 ft. **DELAYED** 4.09 ft. after 48 hrs.
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	GROUNDWATER OBSERVATIONS
		Clayey Sand (SC) - Moist to wet, brown, reddish brown, and brownish red, fine to medium, clayey SAND and contains rootlets		
5		**Poorly-graded Sand with Clay (SP-SC)** - Moist to wet, light gray and gray, fine to medium SAND with clay		
10		**Fat Clay (CH)** - Wet, light gray and brownish yellow, fine to medium, sandy, fat, CLAY		
		Poorly-graded Sand (SP) - Moist to wet, light brown and brown, fine to coarse, poorly graded SAND		
15		**Fat Clay (CH)** - Moist, brown and gray, fat CLAY with sand		
		(CHALK) - Moist, gray CHALK		
20				
25		Bottom of borehole at 24.0 feet.		
30				

WELL DATA



Completion:
protective steel cover; 3-foot square concrete pad

Annular Fill:
1 Batch (Batch equal to 14 Gallons potable water to 1 bags (50-lbs each) cement-bentonite grout)

Annular Seal:
1/2 Bucket of 3/8" TR30 bentonite pellets

Filter:
(20/40) silica filter sand

Standpipe:
2" OD PVC (SCH 40)
Screen:
5 ft; slotted

Sump:0.4 ft.

Backfill:bentonite chips

SIMPLE GEOLOGY WITH WELL 2019 (WOOD 3) - ESEE DATABASE.GDT - 2/6/20 17:25 - L:\GINT8\GINT8 - AMEC\PROJECTS\2019 PROJECTS\7630181575 - 2019 GREENE CO CCR DELINEATION WELLS.GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

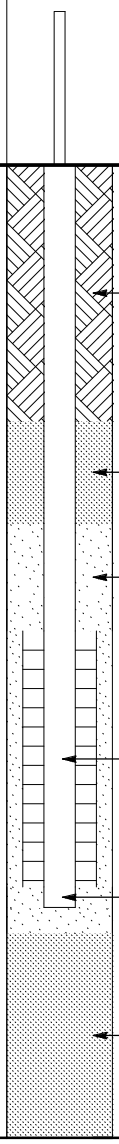
PROJECT Plant Greene Co. CCR Well Delineation
LOCATION Greene Co, Alabama

DATE STARTED 12/5/2019 **COMPLETED** 12/5/2019 **SURF. ELEV.** 99.8 **COORDINATES:** N 945,929.43 E 1,879,001.50
CONTRACTOR Cascade **EQUIPMENT** **METHOD** Rotosonic
DRILLED BY **LOGGED BY** T. Trieu **CHECKED BY** L. Noble **ANGLE** **BEARING**
BORING DEPTH 19 ft. **GROUND WATER DEPTH: DURING** **COMP.** **DELAYED** 4.9 ft. after 48 hrs.
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	GROUNDWATER OBSERVATIONS
		Clayey Sand (SC) - Moist to wet, brown, reddish brown, and orange brown, fine to medium, clayey SAND and contains roots		
5		**Poorly-graded Sand with Clay (SP-SC)** - Moist to wet, light brown, light gray, and bluish gray, fine to medium SAND with clay		
10		**Poorly-graded Sand (SP)** - Moist to wet, brownish gray and light yellow, fine to coarse, poorly graded SAND		
15		**Fat Clay (CH)** - Moist to wet, brown and orange brown, fat CLAY		
		(CHALK) - Moist, bluish gray CHALK		
20		Bottom of borehole at 19.0 feet.		
25				

WELL DATA

Completion:
protective steel cover; 3-foot square concrete pad



SIMPLE GEOLOGY WITH WELL 2019 (WOOD 3) - ESEE DATABASE.GDT - 2/6/20 17:25 - L:\GINT8\GINT8 - AMEC\PROJECTS\2019 PROJECTS\763018 1575 - 2019 GREENE CO CCR DELINEATION WELLS.GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

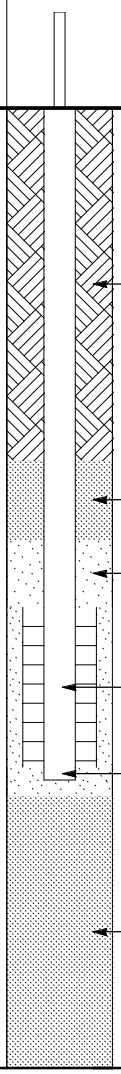
PROJECT Plant Greene Co. CCR Well Delineation
LOCATION Greene Co, Alabama

DATE STARTED 12/8/2019 **COMPLETED** 12/8/2019 **SURF. ELEV.** 102.3 **COORDINATES:** N 948,135.25 E 1,878,630.16
CONTRACTOR Cascade **EQUIPMENT** **METHOD** Rotosonic
DRILLED BY **LOGGED BY** T. Trieu **CHECKED BY** L. Noble **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** 8 ft. **COMP.** 7.54 ft. **DELAYED** 20.93 ft. after 24 hrs.
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	GROUNDWATER OBSERVATIONS
		Fat Clay (CH) - Moist, mottled, brownish ornage, light brown, and pale yellow, fat CLAY with fine sand		
5				
		Fat Clay (CH) - Moist, light brown, fat CLAY with fine sand		
10		**Clayey Sand (SC)** - Moist, light brown, pale yellow, and brownish orange, fine, clayey SAND		
		Poorly-graded Sand with Silt (SP-SM) - Moist to wet, pink, pale ywllow, light brown, and gray, fine to medium SAND with silt		
15				
		Poorly-graded Sand (SP) - Moist, gray and brownish orange, fine to coarse, poorly graded SAND		
20				
		Fat Clay (CH) - Moist, brown, fat CLAY		
25		**(CHALK)** - Moist, bluish gray CHALK		
30				

Bottom of borehole at 30.0 feet.

WELL DATA



SIMPLE GEOLOGY WITH WELL 2019 (WOOD 3) - ESEE DATABASE.GDT - 2/6/20 17:25 - L:\GINT8\GINT8 - AMEC\PROJECTS\2019 PROJECTS\7630181575 - 2019 GREENE CO CCR DELINEATION WELLS.GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

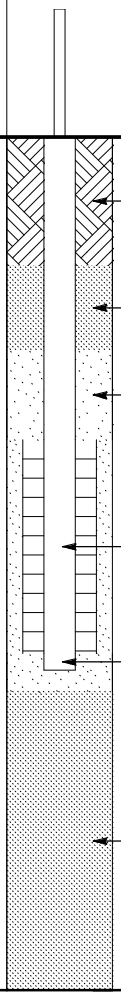
PROJECT Plant Greene Co. CCR Well Delineation
LOCATION Greene Co, Alabama

DATE STARTED 12/9/2019 **COMPLETED** 12/9/2019 **SURF. ELEV.** 97.7 **COORDINATES:** N 945,973.86 E 1,878,878.03
CONTRACTOR Cascade **EQUIPMENT** **METHOD** Rotosonic
DRILLED BY **LOGGED BY** T. Trieu **CHECKED BY** L. Noble **ANGLE** **BEARING**
BORING DEPTH 20 ft. **GROUND WATER DEPTH: DURING** **COMP.** 1.96 ft. **DELAYED**
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	GROUNDWATER OBSERVATIONS
		(TOPSOIL) - Wet, brown TOPSOIL with roots		
		Fat Clay (CH) - Moist, mottled light brown and light gray, fat CLAY with fine sand		
5		**Silty Sand (SM)** - Moist, light brown and light gray, fine, sility SAND		
10		**Poorly-graded Sand (SP)** - Moist, brownish orange and brown, fine to coarse, poorly graded SAND		
		Fat Clay (CH) - Moist to wet, brown and gray, fat CLAY		
15		**(CHALK)** - Moist, bluish gray CHALK		
20				
25				
30				

Bottom of borehole at 20.0 feet.

WELL DATA



Completion:
protective steel cover with bollards; 3-foot square concrete pad

Annular Fill:
1 Batch (Batch equal to 14 Gallons potable water to 1 bags (50-lbs each) cement-bentonite grout)

Annular Seal:
1/2 Bucket of 3/8" TR30 bentonite pellets

Filter:
(20/40) silica filter sand

Standpipe:
2" OD PVC (SCH 40)
Screen:
5 ft; slotted

Sump:0.4 ft.

Backfill:bentonite chips

SIMPLE GEOLOGY WITH WELL 2019 (WOOD 3) - ESEE DATABASE.GDT - 2/6/20 17:25 - L:\GINT8\GINT8 - AMEC\PROJECTS\2019 PROJECTS\7630181575 - 2019 GREENE CO CCR DELINEATION WELLS.GPJ

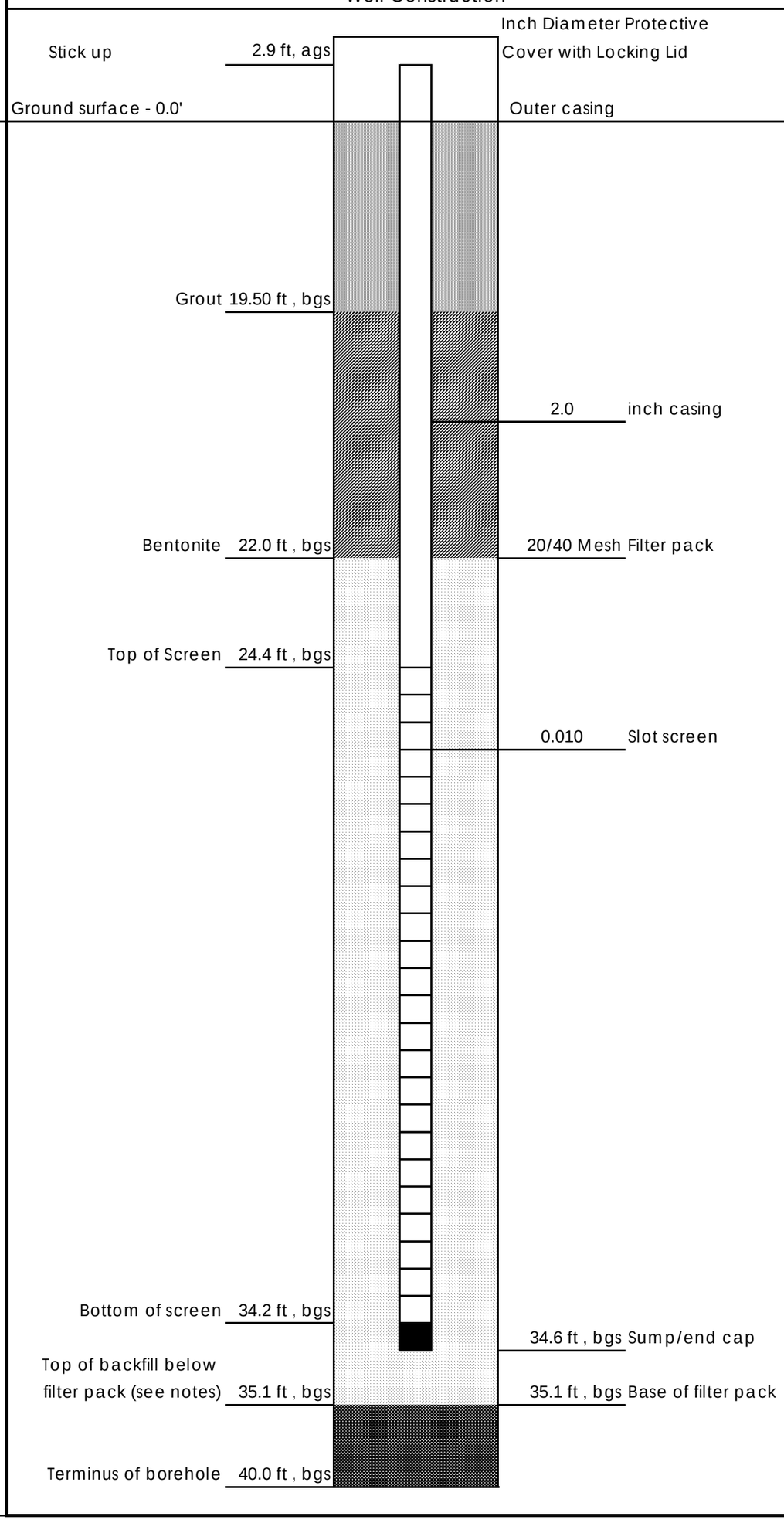
Well Installation Field Log

Project Name:	Plant Greene County Phase II Delineation	Date Started:	12/7/2019	Date Completed:	12/7/2019
Borehole/Well No:	BY-AP-MW-45H	Northing (ft):	940178.31	Easting (ft):	1880113.22
Plant Name:	Plant Greene County	Latitude:	32.5844487	Longitude:	-87.7869571
Plant Address:	801 Steam Plant Road Forkland, AL	Location Datum:	NAD 83	Elevation Datum:	MSL
		Surface/ Ground Elevation:	92.20	Stickup (ft, ags):	2.9
Goals/Task:	Groundwater Delineation	Borehole Diameter (in):	6	Borehole Depth (ft, bgs):	40.0
Drilling Company:	Cascade	Well Casing Diameter (in):	2.0	Well Depth (ft, bgs):	34.60
Drilling Equipment/Rig Type:	Sonic	Top of Casing elev (ft):	95.14	Screen length (ft):	10.2
Drilling Method:	Sonic	DTW at Completion (ft, bgs):	15.85		
Sampling Method:	4-inch Sonic Core				
Prepared By:	G. Budd				
Reviewed By:					

*Not to Scale

Depth (feet)

Well Construction



Materials Inventory

Stick up: 2.9 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing
Top: 2.9 ft, ags Bottom: 24.4 ft, bgs

Screen Type: 4"ID x 2"ID U-pack

Screen Slot Size: 0.010

Screen
Top: 24.4 ft, bgs Bottom: 34.2 ft, bgs

Sump/end cap
Top: 34.2 ft, bgs Bottom: 34.6 ft, bgs

Grout Quantity: 27 gallons

Grout Type: 30% Solids Pure Bentonite

Grout
Top: 0.0 ft, bgs Bottom: 19.5 ft, bgs

Density
Initial: NM lbs/gal Return: NM lbs/gal

Bentonite Type: Holeplug 3/8" Chips

Bentonite Seal
Top: 19.5 ft, bgs Bottom: 22.0 ft, bgs

Filter Pack - Pre-pack and Annular Space
Type (manufacturer, size): 20/40 Mesh

Filter Pack:
Top: 22.0 ft, bgs Bottom: 35.1 ft, bgs

Notes: Bentonite seal hydrated 3-hours prior to grout backfill placed.
NM = Not Measured

Backfill below sand pack: Bentonite chips placed from 40.0' to 35.1'

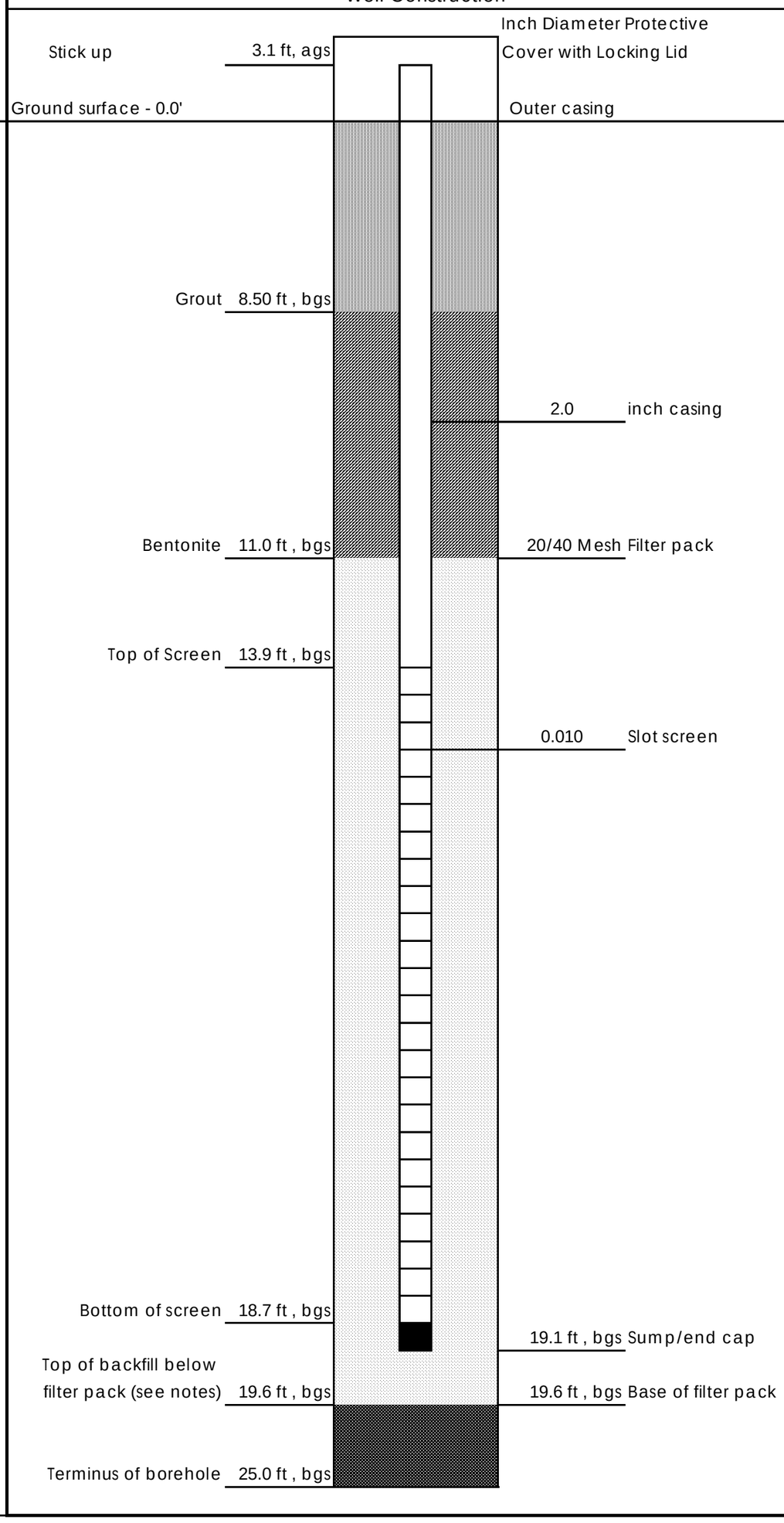
Well Installation Field Log

Project Name:	Plant Greene County Phase II Delineation	Date Started:	12/6/2019	Date Completed:	12/6/2019
Borehole/Well No:	BY-AP-MW-48H	Northing (ft):	939921.7	Easting (ft):	1877492.23
Plant Name:	Plant Greene County	Latitude:	32.5837263	Longitude:	-87.7954642
Plant Address:	801 Steam Plant Road Forkland, AL	Location Datum:	NAD 83	Elevation Datum:	MSL
		Surface/ Ground Elevation:	86.99	Stickup (ft, ags):	3.1
Goals/Task:	Groundwater Delineation	Borehole Diameter (in):	6	Borehole Depth (ft, bgs):	25.0
Drilling Company:	Cascade	Well Casing Diameter (in):	2.0	Well Depth (ft, bgs):	19.1
Drilling Equipment/Rig Type:	Sonic	Top of Casing elev (ft):	90.12	Screen length (ft):	5.2
Drilling Method:	Sonic	DTW at Completion (ft, bgs):	5.58		
Sampling Method:	4-inch Sonic Core				
Prepared By:	G. Budd				
Reviewed By:					

*Not to Scale

Depth (feet)

Well Construction



Materials Inventory

Stick up: 3.1 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing
Top: 3.1 ft, ags Bottom: 13.9 ft, bgs

Screen Type: 4"ID x 2"ID U-pack

Screen Slot Size: 0.010

Screen
Top: 13.9 ft, bgs Bottom: 18.7 ft, bgs

Sump/end cap
Top: 18.7 ft, bgs Bottom: 19.1 ft, bgs

Grout Quantity: 12 gallons

Grout Type: 30% Solids Pure Bentonite

Grout
Top: 0.0 ft, bgs Bottom: 8.5 ft, bgs

Density
Initial: NM lbs/gal Return: NM lbs/gal

Bentonite Type: Holeplug 3/8" Chips

Bentonite Seal
Top: 8.5 ft, bgs Bottom: 11.0 ft, bgs

Filter Pack - Pre-pack and Annular Space
Type (manufacturer, size): 20/40 Mesh

Filter Pack:
Top: 11.0 ft, bgs Bottom: 19.6 ft, bgs

Notes: Bentonite seal hydrated 3-hours prior to grout backfill placed.
NM = Not Measured

Backfill below sand pack: Bentonite chips placed from 25.0' to 19.6'

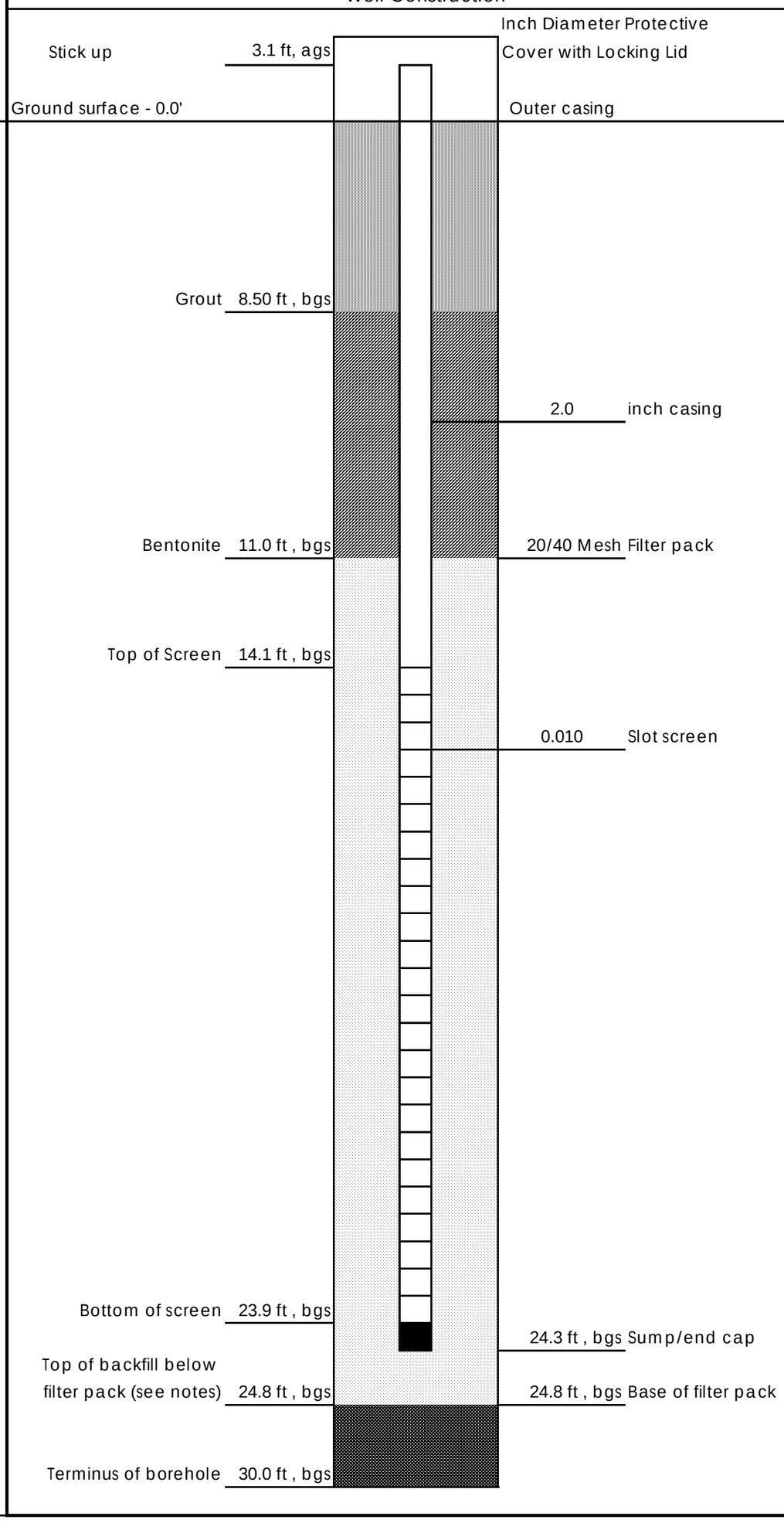
Well Installation Field Log

Project Name:	Plant Greene County Phase II Delineation	Date Started:	12/6/2019	Date Completed:	12/6/2019
Borehole/Well No:	BY-AP-MW-49H	Northing (ft):	940621.76	Easting (ft):	1877164.68
Plant Name:	Plant Greene County	Latitude:	32.5856454	Longitude:	-87.7965341
Plant Address:	801 Steam Plant Road Forkland, AL	Location Datum:	NAD 83	Elevation Datum:	MSL
		Surface/ Ground Elevation:	88.86	Stickup (ft, ags):	2.9
Goals/Task:	Groundwater Delineation	Borehole Diameter (in):	6	Borehole Depth (ft, bgs):	30.0
Drilling Company:	Cascade	Well Casing Diameter (in):	2.0	Well Depth (ft, bgs):	24.3
Drilling Equipment/Rig Type:	Sonic	Top of Casing elev (ft):	91.71	Screen length (ft):	10.2
Drilling Method:	Sonic	DTW at Completion (ft, bgs):	6.49		
Sampling Method:	4-inch Sonic Core				
Prepared By:	G. Budd				
Reviewed By:					

*Not to Scale

Depth (feet)

Well Construction



Materials Inventory

Stick up: 3.1 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing
Top: 3.1 ft, ags Bottom: 14.1 ft, bgs

Screen Type: 4"ID x 2"ID U-pack

Screen Slot Size: 0.010

Screen
Top: 14.1 ft, bgs Bottom: 23.9 ft, bgs

Sump/end cap
Top: 23.9 ft, bgs Bottom: 24.3 ft, bgs

Grout Quantity: 12 gallons

Grout Type: 30% Solids Pure Bentonite

Grout
Top: 0.0 ft, bgs Bottom: 8.5 ft, bgs

Density
Initial: NM lbs/gal Return: NM lbs/gal

Bentonite Type: Holeplug 3/8" Chips

Bentonite Seal
Top: 8.5 ft, bgs Bottom: 11.0 ft, bgs

Filter Pack - Pre-pack and Annular Space
Type (manufacturer, size): 20/40 Mesh

Filter Pack:
Top: 11.0 ft, bgs Bottom: 24.8 ft, bgs

Notes: Bentonite seal hydrated 3-hours prior to grout backfill placed.
NM = Not Measured

Backfill below sand pack: Bentonite chips placed from 30.0' to 24.8'

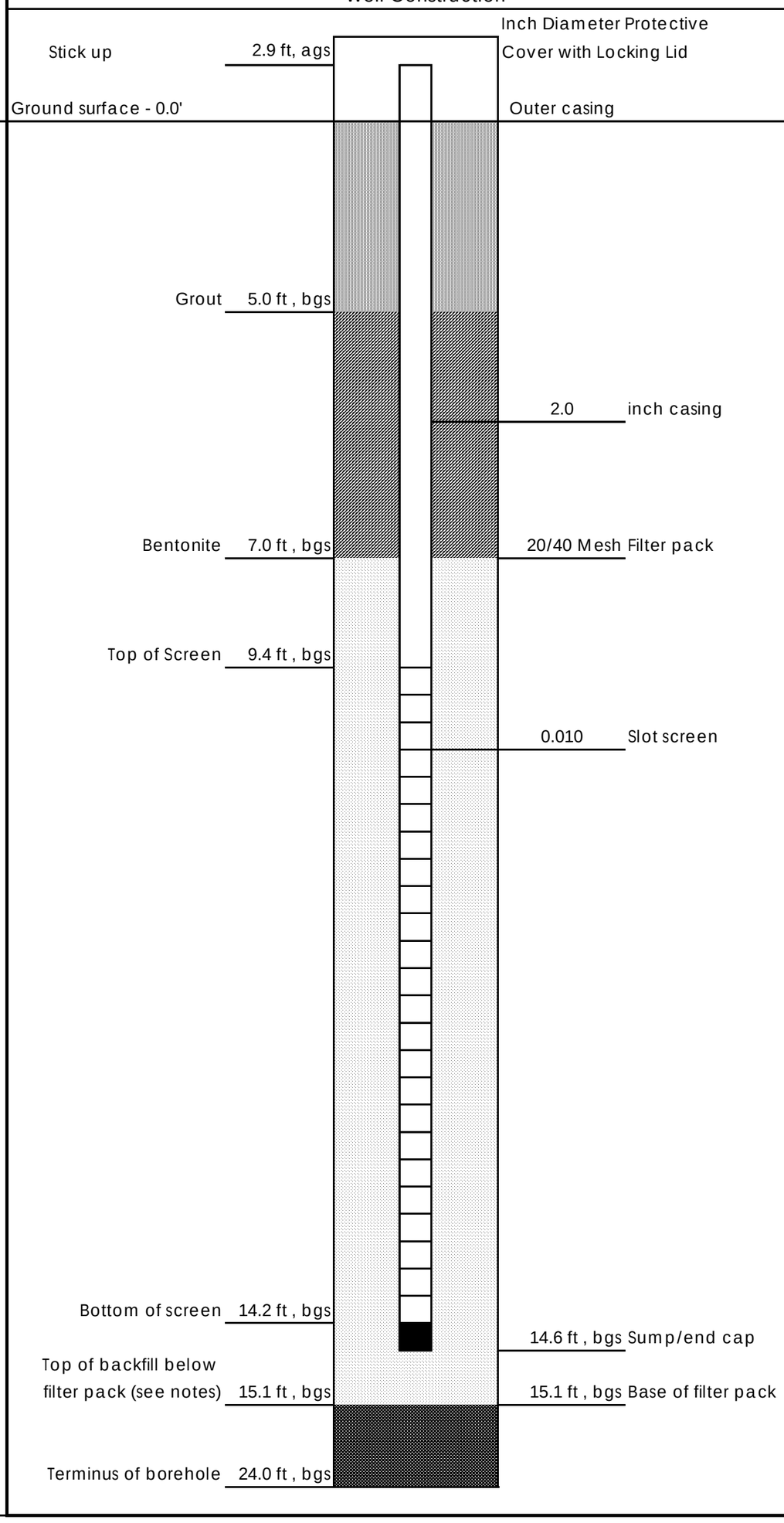
Well Installation Field Log

Project Name:	Plant Greene County Phase II Delineation	Date Started:	12/4/2019	Date Completed:	12/5/2019
Borehole/Well No:	BY-AP-MW-53H	Northing (ft):	945816.35	Easting (ft):	1879005.70
Plant Name:	Plant Greene County	Latitude:	32.5999374	Longitude:	-87.7906031
Plant Address:	801 Steam Plant Road Forkland, AL	Location Datum:	NAD 83	Elevation Datum:	MSL
		Surface/ Ground Elevation:	99.45	Stickup (ft, ags):	2.9
Goals/Task:	Groundwater Delineation	Borehole Diameter (in):	6	Borehole Depth (ft, bgs):	24.0
Drilling Company:	Cascade	Well Casing Diameter (in):	2.0	Well Depth (ft, bgs):	14.6
Drilling Equipment/Rig Type:	Sonic	Top of Casing elev (ft):	102.31	Screen length (ft):	5.2
Drilling Method:	Sonic	DTW at Completion (ft, bgs):	4.09		
Sampling Method:	4-inch Sonic Core				
Prepared By:	G. Budd				
Reviewed By:					

*Not to Scale

Depth (feet)

Well Construction



Materials Inventory

Stick up: 2.9 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing
Top: 2.9 ft, ags Bottom: 9.4 ft, bgs

Screen Type: 4"ID x 2"ID U-pack

Screen Slot Size: 0.010

Screen
Top: 9.4 ft, bgs Bottom: 14.2 ft, bgs

Sump/end cap
Top: 14.2 ft, bgs Bottom: 14.6 ft, bgs

Grout Quantity: 7 gallons

Grout Type: 30% Solids Pure Bentonite

Grout
Top: 0.0 ft, bgs Bottom: 8.5 ft, bgs

Density
Initial: NM lbs/gal Return: NM lbs/gal

Bentonite Type: Holeplug 3/8" Chips

Bentonite Seal
Top: 5.0 ft, bgs Bottom: 7.0 ft, bgs

Filter Pack - Pre-pack and Annular Space
Type (manufacturer, size): 20/40 Mesh

Filter Pack:
Top: 7.0 ft, bgs Bottom: 15.1 ft, bgs

Notes: Bentonite seal hydrated 3-hours prior to grout backfill placed.
NM = Not Measured

Backfill below sand pack: Bentonite chips placed from 24.0' to 15.1'

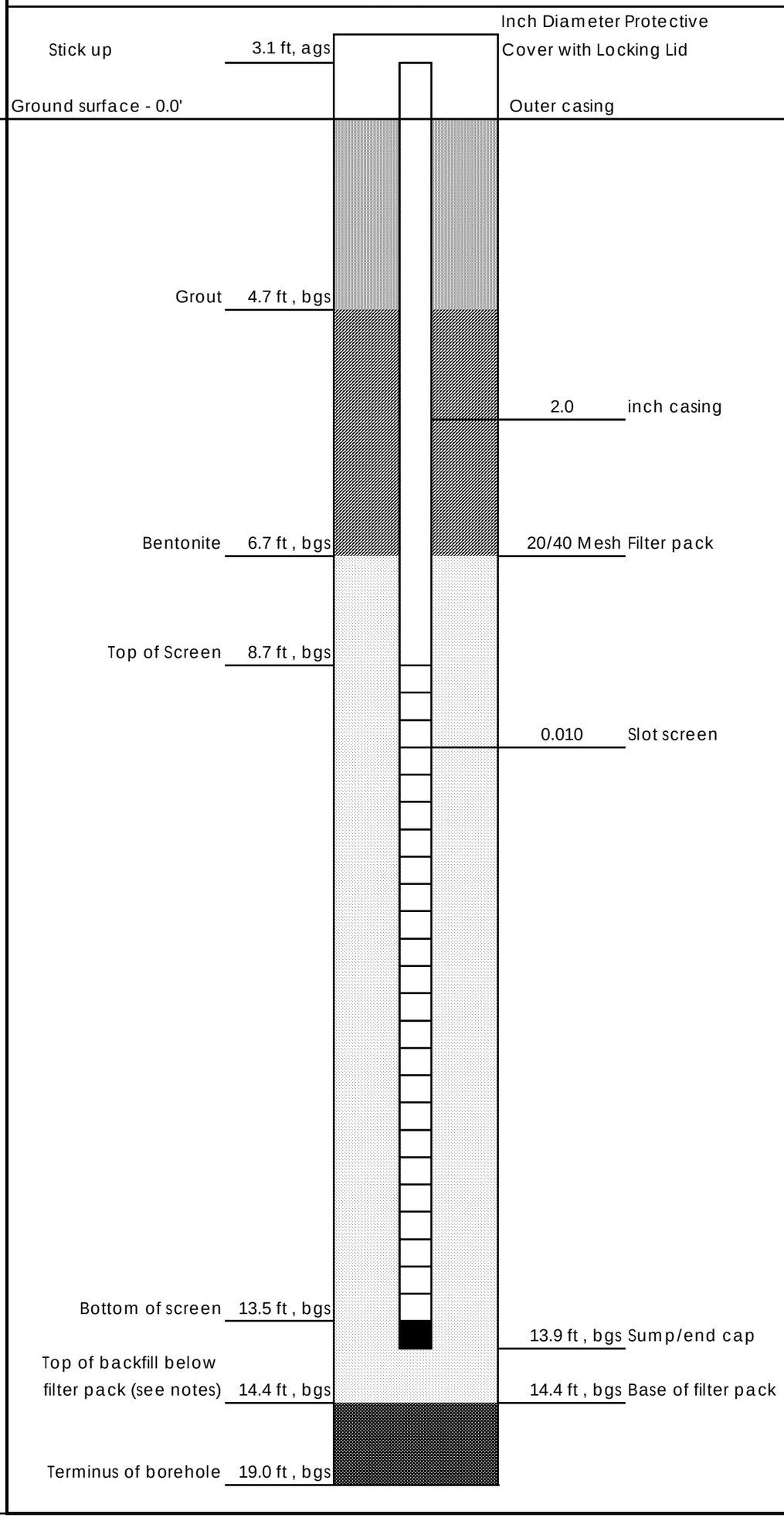
Well Installation Field Log

Project Name:	Plant Greene County Phase II Delineation	Date Started:	12/5/2019	Date Completed:	12/5/2019
Borehole/Well No:	BY-AP-MW-54H	Northing (ft):	945929.43	Easting (ft):	1879001.50
Plant Name:	Plant Greene County	Latitude:	32.6002482	Longitude:	-87.7906176
Plant Address:	801 Steam Plant Road Forkland, AL	Location Datum:	NAD 83	Elevation Datum:	MSL
		Surface/ Ground Elevation:	99.81	Stickup (ft, ags):	3.1
Goals/Task:	Groundwater Delineation	Borehole Diameter (in):	6	Borehole Depth (ft, bgs):	19.0
Drilling Company:	Cascade	Well Casing Diameter (in):	2.0	Well Depth (ft, bgs):	13.9
Drilling Equipment/Rig Type:	Sonic	Top of Casing elev (ft):	102.94	Screen length (ft):	5.2
Drilling Method:	Sonic	DTW at Completion (ft, bgs):	4.90		
Sampling Method:	4-inch Sonic Core				
Prepared By:	G. Budd				
Reviewed By:					

*Not to Scale

Depth (feet)

Well Construction



Materials Inventory

Stick up: 3.1 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing
Top: 3.1 ft, ags Bottom: 8.7 ft, bgs

Screen Type: 4"ID x 2"ID U-pack

Screen Slot Size: 0.010

Screen
Top: 8.7 ft, bgs Bottom: 13.5 ft, bgs

Sump/end cap
Top: 13.5 ft, bgs Bottom: 13.9 ft, bgs

Grout Quantity: 7 gallons

Grout Type: 30% Solids Pure Bentonite

Grout
Top: 0.0 ft, bgs Bottom: 4.7 ft, bgs

Density
Initial: NM lbs/gal Return: NM lbs/gal

Bentonite Type: Holeplug 3/8" Chips

Bentonite Seal
Top: 4.7 ft, bgs Bottom: 6.7 ft, bgs

Filter Pack - Pre-pack and Annular Space
Type (manufacturer, size): 20/40 Mesh

Filter Pack:
Top: 6.7 ft, bgs Bottom: 14.4 ft, bgs

Notes: Bentonite seal hydrated 3-hours prior to grout backfill placed.
NM = Not Measured

Backfill below sand pack: Bentonite chips placed from 19.0' to 14.4'

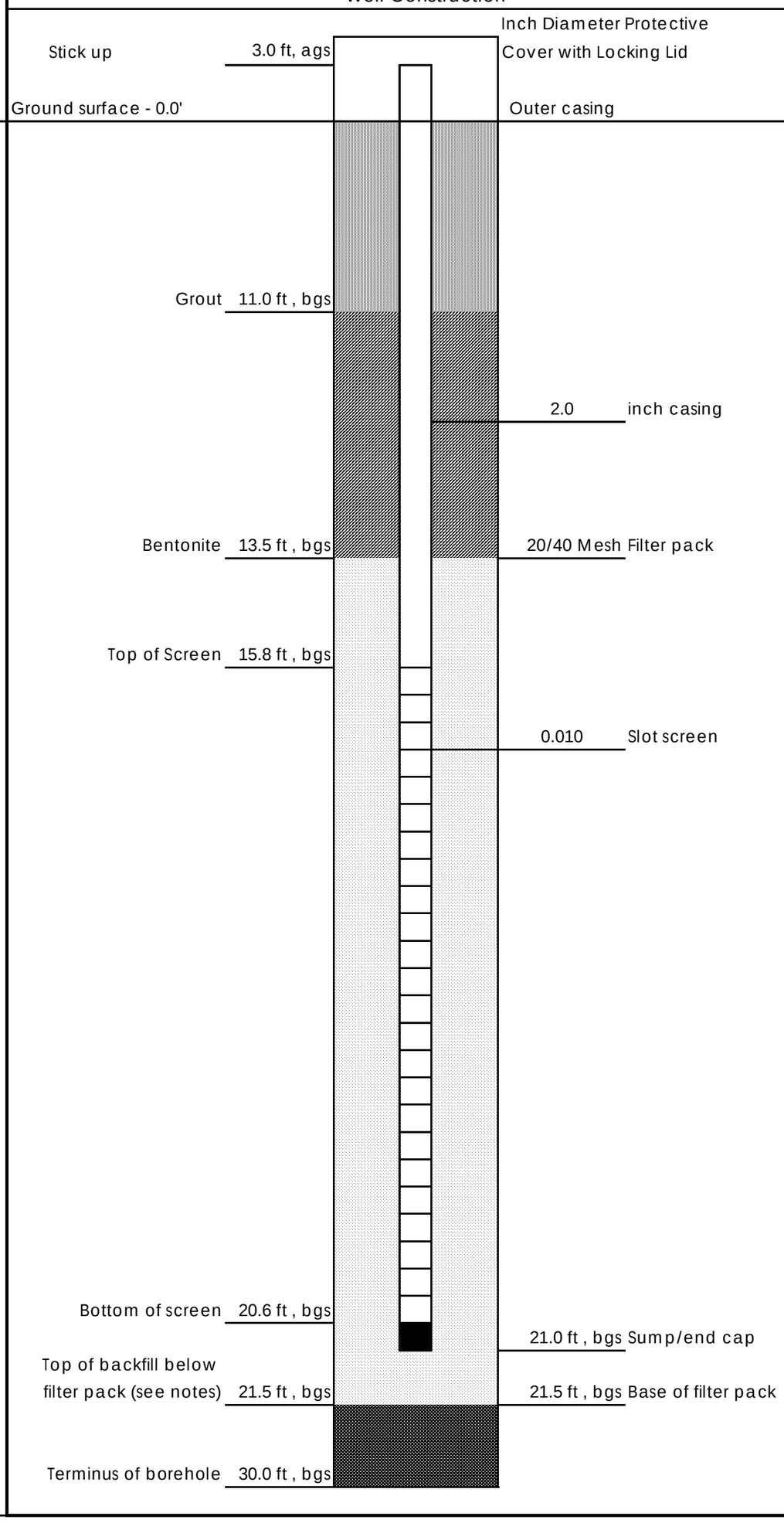
Well Installation Field Log

Project Name:	Plant Greene County Phase II Delineation	Date Started:	12/8/2019	Date Completed:	12/8/2019
Borehole/Well No:	BY-AP-MW-56H	Northing (ft):	948135.25	Easting (ft):	1878630.16
Plant Name:	Plant Greene County	Latitude:	32.6063084	Longitude:	-87.7918431
Plant Address:	801 Steam Plant Road Forkland, AL	Location Datum:	NAD 83	Elevation Datum:	MSL
		Surface/ Ground Elevation:	102.25	Stickup (ft, ags):	3.0
Goals/Task:	Groundwater Delineation	Borehole Diameter (in):	6	Borehole Depth (ft, bgs):	30.0
Drilling Company:	Cascade	Well Casing Diameter (in):	2.0	Well Depth (ft, bgs):	21.0
Drilling Equipment/Rig Type:	Sonic	Top of Casing elev (ft):	105.24	Screen length (ft):	5.2
Drilling Method:	Sonic	DTW at Completion (ft, bgs):	20.93		
Sampling Method:	4-inch Sonic Core				
Prepared By:	G. Budd				
Reviewed By:					

*Not to Scale

Depth (feet)

Well Construction



Materials Inventory

Stick up: 3.0 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing
Top: 3.0 ft, ags Bottom: 15.8 ft, bgs

Screen Type: 4"ID x 2"ID U-pack

Screen Slot Size: 0.010

Screen
Top: 15.8 ft, bgs Bottom: 20.6 ft, bgs

Sump/end cap
Top: 20.6 ft, bgs Bottom: 21.0 ft, bgs

Grout Quantity: 15 gallons

Grout Type: 30% Solids Pure Bentonite

Grout
Top: 0.0 ft, bgs Bottom: 11.0 ft, bgs

Density
Initial: NM lbs/gal Return: NM lbs/gal

Bentonite Type: Holeplug 3/8" Chips

Bentonite Seal
Top: 11.0 ft, bgs Bottom: 13.5 ft, bgs

Filter Pack - Pre-pack and Annular Space
Type (manufacturer, size): 20/40 Mesh

Filter Pack:
Top: 13.5 ft, bgs Bottom: 21.5 ft, bgs

Notes: Bentonite seal hydrated 3-hours prior to grout backfill placed.
NM = Not Measured

Backfill below sand pack: Bentonite chips placed from 30.0' to21.5'

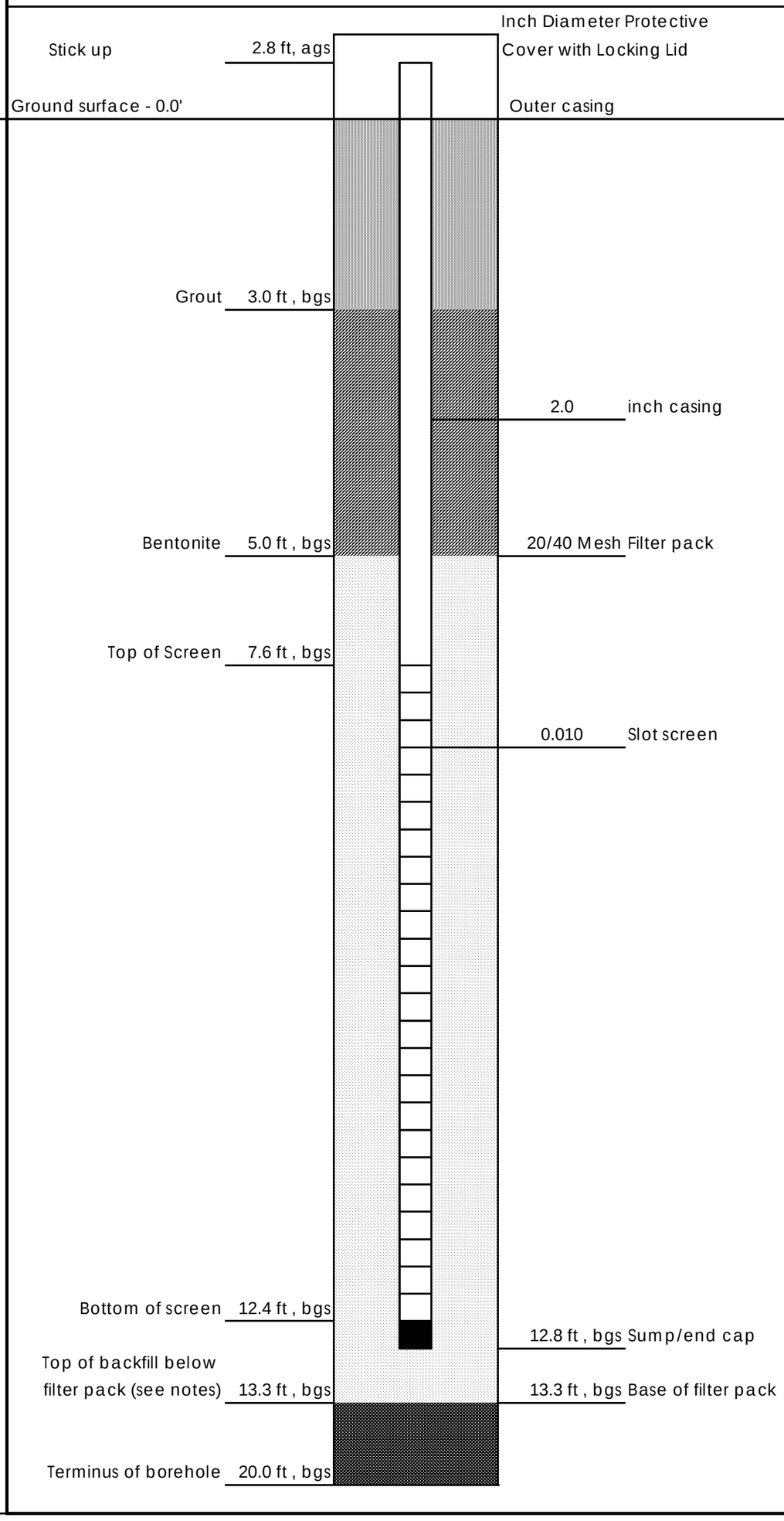
Well Installation Field Log

Project Name:	Plant Greene County Phase II Delineation	Date Started:	12/9/2019	Date Completed:	12/9/2019
Borehole/Well No:	BY-AP-MW-57H	Northing (ft):	945973.86	Easting (ft):	1878878.03
Plant Name:	Plant Greene County	Latitude:	32.6003682	Longitude:	-87.7910189
Plant Address:	801 Steam Plant Road Forkland, AL	Location Datum:	NAD 83	Elevation Datum:	MSL
		Surface/ Ground Elevation:	97.65	Stickup (ft, ags):	2.8
Goals/Task:	Groundwater Delineation	Borehole Diameter (in):	6	Borehole Depth (ft, bgs):	20.0
Drilling Company:	Cascade	Well Casing Diameter (in):	2.0	Well Depth (ft, bgs):	12.8
Drilling Equipment/Rig Type:	Sonic	Top of Casing elev (ft):	100.43	Screen length (ft):	5.2
Drilling Method:	Sonic	DTW at Completion (ft, bgs):	1.96		
Sampling Method:	4-inch Sonic Core				
Prepared By:	G. Budd				
Reviewed By:					

*Not to Scale

Depth (feet)

Well Construction



Materials Inventory

Stick up: 2.8 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing
Top: 2.8 ft, ags Bottom: 7.6 ft, bgs

Screen Type: 4"ID x 2"ID U-pack

Screen Slot Size: 0.010

Screen
Top: 7.6 ft, bgs Bottom: 12.4 ft, bgs

Sump/end cap
Top: 12.4 ft, bgs Bottom: 12.8 ft, bgs

Grout Quantity: 5 gallons

Grout Type: 30% Solids Pure Bentonite

Grout
Top: 0.0 ft, bgs Bottom: 3.0 ft, bgs

Density
Initial: NM lbs/gal Return: NM lbs/gal

Bentonite Type: Holeplug 3/8" Chips

Bentonite Seal
Top: 3.0 ft, bgs Bottom: 5.0 ft, bgs

Filter Pack - Pre-pack and Annular Space
Type (manufacturer, size): 20/40 Mesh

Filter Pack:
Top: 5.0 ft, bgs Bottom: 13.3 ft, bgs

Notes: Bentonite seal hydrated 3-hours prior to grout backfill placed.
NM = Not Measured

Backfill below sand pack: Bentonite chips placed from 30.0' to21.5'

SUBSURFACE LOG (DRAFT)

Client Borehole ID	N/A	Stantec Boring No.	**GC-AP-MW-47HO**
Client	Southern Company Services	Boring Location	939,420.25 N; 1,877,891.78 E Alabama West NAD1983
Project Number	175620203	Surface Elevation	90.4 ft — Elevation Datum: NAVD 1988
Project Name	Plant Greene - Phase II Delineation Monitoring Wells	Date Started	5/12/20 — Completed: 5/12/20
Project Location	Greene County Co, Forkland, Alabama	Depth to Water	5.5 ft — Date/Time: 5/14/20
Inspector	S. Bolden — Logger: S. Bolden	Depth to Water	N/A — Date/Time: N/A
Drilling Contractor	Stantec Consulting Services Inc.	Drill Rig Type and ID	CME 55T#2, #709
Overburden Drilling and Sampling Tools (Type and Size)	4-1/4" HSA, 2" SS w/o liners		
Sampler Hammer Type	Automatic — Weight: 140 lb — Drop: 30"	Efficiency	N/A
Reviewed By	B. Halada	Approved By	B. Evans

Depth Ft[2]	Elevation	Description	Sample[1]	Depth Ft[2]	Rec. Ft	Blows/PSI	Remarks
0.0	90.4	Top of Hole					
0.2	90.2	Topsoil, visible roots	SS01	0.0 - 1.5	1.2	4-10-11	
		POORLY GRADED SAND, SP-SC, 10YR 4/4 (dark yellowish brown), fine to medium, medium dense, dry, no odor, no staining					
5.0	85.4						
5.8	84.6	SANDY LEAN CLAY, CL, 10YR 6/1 (gray), low plasticity, medium stiff, dry, no odor, no staining	SS02a SS02b	5.0 - 5.8 5.8 - 6.5	1.5	4-2-4	
		POORLY GRADED SAND, SP, 10YR 4/4 (dark yellowish brown) with 7.5YR 4/6 (strong brown), fine to medium, loose, moist, no odor, iron oxide staining					
10.0	80.4	WELL GRADED SAND WITH GRAVEL, SW-SC, 7.5YR 4/6 (strong brown), medium to coarse, loose, wet, no odor, iron oxide staining, moderately graded	SS03a SS03b	10.0 - 11.1 11.1 - 11.5	1.5	1-3-2	
16.0	74.4		SS04	15.0 - 16.5	0.7	2-3-5	
		WELL GRADED SAND WITH GRAVEL AND SOME CLAY, SW, 10YR 4/4 (dark yellowish brown) with 7.5YR 4/4 (brown), medium to coarse, loose to medium dense, wet, iron oxide staining, Some iron staining at 25.7 ft	SS05	20.0 - 21.5	0.0	3-5-11	
25.8	64.6		SS06a	25.0 - 25.8	1.5	4-14-34	
26.5	63.9	CHALK WITH TRACES OF FAT CLAY, 10YR 4/1 (dark gray)	SS06b	25.8 - 26.5			

No Refusal /
Bottom of Hole at 26.5 Ft.

Monitoring well installed. Refer to Well Installation form for well completion details.
1: a,b,c denote divided sample
2: Depths are reported in feet below ground surface

STANTEC 1755 STD GREENE_CO_175620203.GPJ BC 1755 STD DATAT R0.GDT 6/22/20

Southern Company

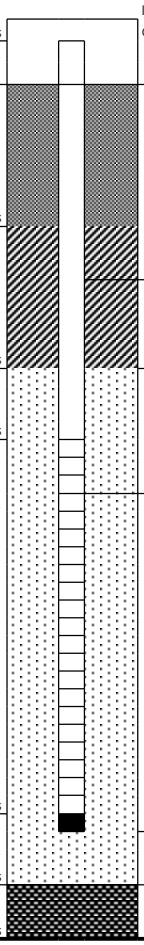
Well Installation Field Log

Project Name:	Plant Greene Ash Pond CCR Delineation Phase II	Date Started:	5/12/2020	Date Completed:	5/13/2020
Borehole/Well No:	GC-AP-MW-47HO	Northing (ft):	939420.25	Easting (ft):	1877891.78
Plant Name:	Plant Greene County	Latitude:	32.5823484	Longitude:	-87.7941626
Plant Address:	801 Steamboat Road, Forkland , AL	Location Datum:	AL West NAD 1983	Elevation Datum:	NAVD 1988
Project & Task Number:	175620203 & 200.03	Surface/ Ground Elevation:	90.39	Stickup (ft, ags):	3.5
Goals/Task:	Delineation Monitoring Well Installation	Borehole Diameter (in):	8	Borehole Depth (ft, bgs):	26.5
Drilling Company:	Stantec	Well Casing Diameter (in):	2	Well Depth (ft, bgs):	24.0
Drilling Equipment/Rig Type:	CME 55 Tack Rig/ (HSA)	Top of Casing elev (ft):	93.86	Screen length (ft):	10
Drilling Method:	Hollow Stem Auger (HSA)	DTW at Completion (ft, bgs):	5.5 (5/14/20)		
Sampling Method:	2" Split Sppon				
Prepared By:	Suama Bolden				
Review By:	Carolyn Sexton, PG				

***Not to Scale**

Depth (feet)

Well Construction



Stick up	3.5 ft, ags	Inch Diameter Protective Cover with Locking Lid	
Ground surface - 0.0'		Outer casing	
Grout	8.8 ft , bgs		
		2	inch casing
Bentonite	10.8 ft , bgs	20/40 mesh	Filter pack
Top of Screen	13.7 ft , bgs		
		0.010	Slot screen
Bottom of screen	23.7 ft , bgs		
		24.0 ft , bgs	Sump/end cap
Boring caved in. Native sand.	24.5 ft , bgs	24.5 ft , bgs	Base of filter pack
Terminus of borehole	26.5 ft , bgs		

Materials Inventory

Stick up: 3.5 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing Top: 3.5 ft, ags Bottom: 13.7 ft, bgs

Screen Type: 4"ID x 2"ID Pre-pack

Screen Slot Size: 0.010

Screen Top: 13.7 ft, bgs Bottom: 23.7 ft, bgs

Sump/end cap Top: 23.7 ft, bgs Bottom: 24.0 ft, bgs

Grout Quantity: 35 gallons

Grout Type: Pure Gold Bentonite 30% Solids Grout

Grout Top: 0.0 ft, bgs Bottom: 8.8 ft, bgs

Bentonite Type: 1/4" PDS TR30 pellets

Bentonite Seal Top: 8.8 ft, bgs Bottom: 10.8 ft, bgs

Filter Pack - Pre-pack and Annular Space Type (manufacturer, size): 20/40 Mesh (Global #7)

Filter Pack: Top: 10.8 ft, bgs Bottom: 24.5 ft, bgs

Notes: Bentonite seal hydrated 4-hours prior to grout backfill placed.

Boring caved in from 24.5 ft to 26.5 ft.

SUBSURFACE LOG (DRAFT)

Client Borehole ID	N/A	Stantec Boring No.	**GC-AP-MW-50HO**
Client	Southern Company Services	Boring Location	940,950.85 N; 1,876,885.64 E Alabama West NAD1983
Project Number	175620203	Surface Elevation	85.3 ft
		Elevation Datum	NAVD 1988
Project Name	Plant Greene - Phase II Delineation Monitoring Wells	Date Started	5/13/20
		Completed	5/13/20
Project Location	Greene County Co, Forkland, Alabama	Depth to Water	3.8 ft
		Date/Time	5/14/20
Inspector	S. Bolden	Logger	S. Bolden
Depth to Water	N/A	Date/Time	N/A
Drilling Contractor	Stantec Consulting Services Inc.	Drill Rig Type and ID	CME 55T#2, #709
Overburden Drilling and Sampling Tools (Type and Size)	4-1/4"H SA, 2"SS w/o liners		
Sampler Hammer Type	Automatic	Weight	140 lb
Drop	30"	Efficiency	N/A
Reviewed By	B. Halada	Approved By	B. Evans

Lithology Depth Ft[2]	Elevation	Description	Overburden: / Rock Core:	Sample[1] / RQD %	Depth Ft[2] / Run Ft	Rec. Ft / Rec. Ft	Blows/PSI / Rec. %	Remarks
0.0	85.3	Top of Hole						
0.2	85.1	Topsoil		SS01	0.0 - 1.5	1.5	4-4-4	
		POORLY GRADED SAND, SP, 7.5YR 4/6 (strong brown) to 10YR 4/6 (dark yellowish brown), fine to medium, loose, moist, no odor, no staining						
		@ 5.0', 10YR 4/6 (dark yellowish brown) to 10YR 5/4 (yellowish brown), very loose to loose, wet at 5.6'		SS02	5.0 - 6.5	1.5	3-2-2	
		@ 10.0', 10YR 5/4 (yellowish brown), wet		SS03	10.0 - 11.5	1.5	6-3-5	
		@ 15.0', 10YR 5/4 (yellowish brown), fine to medium, very loose to loose, wet, no odor, iron oxide staining		SS04	15.0 - 16.5	1.3	2-2-2	
				SS05	20.0 - 21.5	0.0	2-2-4	
25.0	60.3							
		WELL GRADED SAND WITH GRAVEL, SW, 10YR 5/4 (yellowish brown), fine to medium, loose to medium dense, wet, no odor, iron oxide staining, Grading from SP-SW @ 25.0'		SS06	25.0 - 26.5	1.1	5-10-13	
31.3	54.0	@ 30.0', 10YR 5/6 (yellowish brown)		SS07a	30.0 - 31.3	1.0	3-4-4	
31.5	53.8			SS07b	31.3 - 31.5			

CHALK OVERLAIN BY <0.1' CH (FAT CLAY) ENCOUNTERED AT 31.5 FT., 10YR 3/3 (dark brown), wet, no odor, iron oxide staining

No Refusal /
Bottom of Hole at 31.5 Ft.

Monitoring well installed. Refer to Well Installation form for well completion details.
1: a,b,c denote divided sample
2: Depths are reported in feet below ground surface

STANTEC 1755 STD GREENE_CO_175620203.GPJ BC 1755 STD DATAT R0.GDT 6/22/20

Southern Company

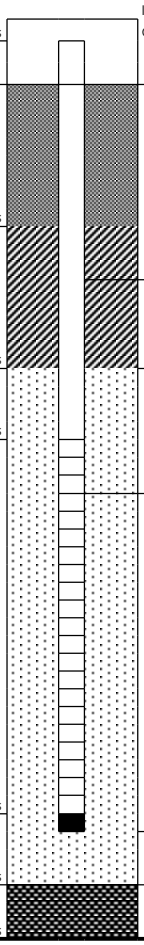
Well Installation Field Log

Project Name:	Plant Greene Ash Pond CCR Delineation Phase II	Date Started:	5/13/2020	Date Completed:	5/13/2020
Borehole/Well No:	GC-AP-MW-50HO	Northing (ft):	940950.85	Easting (ft):	1876885.64
Plant Name:	Plant Greene County	Latitude:	32.5865478	Longitude:	-87.797443
Plant Address:	801 Steamboat Road, Forkland , AL	Location Datum:	AL West NAD 1983	Elevation Datum:	NAVD 1988
Project & Task Number:	175620203 & 200.03	Surface/ Ground Elevation:	85.31	Stickup (ft, ags):	3.5
Goals/Task:	Delineation Monitoring Well Installation	Borehole Diameter (in):	8	Borehole Depth (ft, bgs):	31.5
Drilling Company:	Stantec	Well Casing Diameter (in):	2	Well Depth (ft, bgs):	30.4
Drilling Equipment/Rig Type:	CME 55 Tack Rig/ (HSA)	Top of Casing elev (ft):	88.92	Screen length (ft):	10
Drilling Method:	Hollow Stem Auger (HSA)	DTW at Completion (ft, bgs):	3.8 (5/14/2020)		
Sampling Method:	2" Split Sppon				
Prepared By:	Suama Bolden				
Review By:	Carolyn Sexton, PG				

***Not to Scale**

Depth (feet)

Well Construction



Stick up	3.5 ft, ags	Inch Diameter Protective Cover with Locking Lid	
Ground surface - 0.0'		Outer casing	
Grout	16.0 ft , bgs		
		2	inch casing
Bentonite	18.1 ft , bgs	20/40 mesh	Filter pack
Top of Screen	20.1 ft , bgs		
		0.010	Slot screen
Bottom of screen	30.1 ft , bgs		
		30.4 ft , bgs	Sump/end cap
Boring caved in. Native sand.	30.4 ft , bgs	30.4 ft , bgs	Base of filter pack
Terminus of borehole	31.5 ft , bgs		

Materials Inventory

Stick up: 3.5 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing Top: 3.5 ft, ags Bottom: 20.1 ft, bgs

Screen Type: 4"ID x 2"ID Pre-pack

Screen Slot Size: 0.010

Screen Top: 20.1 ft, bgs Bottom: 30.1 ft, bgs

Sump/end cap Top: 30.1 ft, bgs Bottom: 30.4 ft, bgs

Grout Quantity: 76 gallons

Grout Type: Pure Gold Bentonite 30% Solid Grout

Grout Top: 0.0 ft, bgs Bottom: 16.0 ft, bgs

Bentonite Type: 1/4" PDS TR30 pellets

Bentonite Seal Top: 16.0 ft, bgs Bottom: 18.1 ft, bgs

Filter Pack - Pre-pack and Annular Space Type (manufacturer, size): 20/40 Mesh (Global #7)

Filter Pack: Top: 18.1 ft, bgs Bottom: 30.4 ft, bgs

Notes: Bentonite seal hydrated 4-hours prior to grout backfill placed.

Boring caved in from 30.4 ft to 31.5 ft.

SUBSURFACE LOG (DRAFT)

Client Borehole ID	N/A	Stantec Boring No.	**GC-AP-MW-55HO**
Client	Southern Company Services	Boring Location	948,102.31 N; 1,878,117.66 E Alabama West NAD1983
Project Number	175620203	Surface Elevation	110.8 ft
Elevation Datum	NAVD 1988		
Project Name	Plant Greene - Phase II Delineation Monitoring Wells	Date Started	5/15/20
Completed	5/15/20		
Project Location	Greene County Co, Forkland, Alabama	Depth to Water	25.5 ft
Date/Time	5/16/20		
Inspector	S. Bolden	Logger	S. Bolden
Depth to Water	N/A	Date/Time	N/A
Drilling Contractor	Stantec Consulting Services Inc.	Drill Rig Type and ID	CME 55T#2, #709
Overburden Drilling and Sampling Tools (Type and Size)	4-1/4"H SA, 2"SS w/o liners		
Sampler Hammer Type	Automatic	Weight	140 lb
Drop	30"	Efficiency	N/A
Reviewed By	B. Halada	Approved By	B. Evans

Lithology: Depth Ft[2]	Lithology: Elevation	Description (Overburden: / Rock Core:)	Sample[1] / RQD %	Depth Ft[2] / Run Ft	Rec. Ft / Rec. Ft	Blows/PSI / Rec. %	Remarks
0.0	110.8	Top of Hole					
0.3	110.5	Topsoil, visible roots					
		POORLY GRADED SAND TRACE CLAY, SP, 7.5YR 4/3 (brown) to 10YR 5/6 (yellowish brown), fine to medium, loose, dry, no odor, moist at 1.4 ft	SS01	0.0 - 1.5	1.0	2-3-3	
5.0	105.8	CLAYEY SAND, SP-SC, 7.5YR 5/6 (strong brown), fine, medium dense, moist, no odor, iron oxide staining, moderately graded	SS02	5.0 - 6.5	1.5	6-7-10	
10.0	100.8	SANDY LEAN CLAY, CL, 7.5YR 6/4 (light brown), medium plasticity, very stiff, moist, no odor, iron oxide staining	SS03	10.0 - 11.5	1.5	7-10-13	
15.0	95.8						
15.5	95.3	CLAYEY SAND, SP-SC, 7.5YR 5/6 (strong brown), fine, medium dense, moist, no odor, iron oxide staining, moderately graded	SS04a SS04b	15.0 - 15.5 15.5 - 16.5	1.5	5-10-11	
		POORLY GRADED SAND TRACE CLAY, SP, 7.5YR 5/8 (strong brown), fine to medium, medium dense, moist, no odor, iron oxide staining					
		@ 20.0', 7.5YR 5/8 (strong brown) and 7.5YR 6/4 (light brown), increased moisture. Stratified oxidized layers from 20.5 ft to 21.5 ft	SS05	20.0 - 21.5	1.5	8-9-11	

STANTEC 1755 STD GREENE_CO_175620203.GPJ BC 1755 STD DATAT R0.GDT 6/22/20

SUBSURFACE LOG (DRAFT)

Client Borehole ID: N/A
Stantec Boring No.: **GC-AP-MW-55HO**
Client: Southern Company Services
Boring Location: 948,102.31 N; 1,878,117.66 E Alabama West NAD1983
Project Number: 175620203
Surface Elevation: 110.8 ft
Elevation Datum: NAVD 1988

Lithology: Depth Ft[2]	Lithology: Elevation	Description	Overburden: / Rock Core:	Sample[1] / RQD %	Depth Ft[2] / Run Ft	Rec. Ft / Rec. Ft	Blows/PSI / Rec. %	Remarks
25		POORLY GRADED SAND TRACE CLAY, SP, 7.5YR 5/8 (strong brown), fine to medium, medium dense, moist, no odor, iron oxide staining *(Continued)* @ 25.0', 7.5YR 5/8 (strong brown) @ 26.5', moist to wet		SS06	25.0 - 26.5	1.5	5-8-9	
30		@ 31.5', 7.5YR 5/8 (strong brown), medium to coarse, loose, wet		SS07	30.0 - 31.5	1.5	3-5-5	
35				SS08	35.0 - 36.5	1.5	2-5-3	
40.0	70.8	WELL GRADED SAND WITH GRAVEL, SP, 7.5YR 5/8 (strong brown), medium to coarse, loose, wet, no odor, iron oxide staining		SS09a	40.0 - 41.3	1.5	2-5-3	
41.3	69.5			SS09b	41.3 - 41.5			
41.5	69.3	FAT CLAY, CH, 10YR 3/2 (very dark grayish brown), medium to high plasticity, soft, wet, no odor						

No Refusal /
Bottom of Hole at 41.5 Ft.

Monitoring well installed. Refer to Well Installation form for well completion details.
1: a,b,c denote divided sample
2: Depths are reported in feet below ground surface

STANTEC 1755 STD GREENE_CO_175620203.GPJ BC 1755 STD DATAT R0.GDT 6/22/20

Southern Company

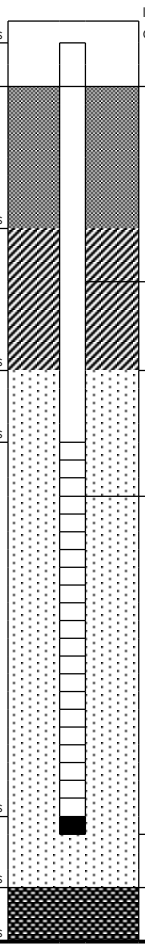
Well Installation Field Log

Project Name:	Plant Greene Ash Pond CCR Delineation Phase II	Date Started:	5/15/2020	Date Completed:	5/15/2020
Borehole/Well No:	GC-AP-MW-55HO	Northing (ft):	948102.31	Easting (ft):	1878117.66
Plant Name:	Plant Greene County	Latitude:	32.606214	Longitude:	-87.7935071
Plant Address:	801 Steamboat Road, Forkland , AL	Location Datum:	AL West NAD 1983	Elevation Datum:	NAVD 1988
Project & Task Number:	175620203 & 200.03	Surface/ Ground Elevation:	110.83	Stickup (ft, ags):	3.5
Goals/Task:	Delineation Monitoring Well Installation	Borehole Diameter (in):	8	Borehole Depth (ft, bgs):	41.5
Drilling Company:	Stantec	Well Casing Diameter (in):	2	Well Depth (ft, bgs):	40.0
Drilling Equipment/Rig Type:	CME 55 Tack Rig/ (HSA)	Top of Casing elev (ft):	114.37	Screen length (ft):	10
Drilling Method:	Hollow Stem Auger (HSA)	DTW at Completion (ft, bgs):	25.46' (5/16/20)		
Sampling Method:	2" Split Sppon				
Prepared By:	Suama Bolden				
Review By:	Carolyn Sexton, PG				

***Not to Scale**

Depth (feet)

Well Construction



Stick up **3.5** ft, ags

Inch Diameter Protective Cover with Locking Lid

Ground surface - 0.0'

Outer casing

Grout 25.3 ft , bgs

2 inch casing

Bentonite 27.5 ft , bgs

20/40 mesh Filter pack

Top of Screen 29.7 ft , bgs

0.010 Slot screen

Bottom of screen 39.7 ft , bgs

40.0 ft , bgs Sump/end cap

Boring caved in. Native sand. 40.0 ft , bgs

40.0 ft , bgs Base of filter pack

Terminus of borehole 41.5, bgs

Materials Inventory

Stick up: 3.5 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing Top: 3.5 ft, ags Bottom: 29.7 ft, bgs

Screen Type: 4"ID x 2"ID Pre-pack

Screen Slot Size: 0.010

Screen Top: 29.7 ft, bgs Bottom: 39.7 ft, bgs

Sump/end cap Top: 39.7 ft, bgs Bottom: 40.0 ft, bgs

Grout Quantity: 68 gallons

Grout Type: Pure Gold Bentonite 30% Solids Grout

Grout Top: 0.0 ft, bgs Bottom: 25.3 ft, bgs

Bentonite Type: 1/4" PDS TR30 pellets

Bentonite Seal Top: 25.3 ft, bgs Bottom: 27.5 ft, bgs

Filter Pack - Pre-pack and Annular Space Type (manufacturer, size): 20/40 Mesh (Global #7)

Filter Pack: Top: 27.5 ft, bgs Bottom: 40.0 ft, bgs

Notes: Bentonite seal hydrated 4-hours prior to grout backfill placed.

Boring caved in from 40.0 ft to 41.5 ft. Boring was augered to 41.5 ft.

SUBSURFACE LOG (DRAFT)

Client Borehole ID	N/A	Stantec Boring No.	**GC-AP-MW-59HO**
Client	Southern Company Services	Boring Location	946,183.03 N; 1,878,416.60 E Alabama West NAD1983
Project Number	175620203	Surface Elevation	97.7 ft
		Elevation Datum	NAVD 1988
Project Name	Plant Greene - Phase II Delineation Monitoring Wells	Date Started	5/14/20
		Completed	5/14/20
Project Location	Greene County Co, Forkland, Alabama	Depth to Water	4.6 ft
		Date/Time	5/15/20
Inspector	S. Bolden	Logger	S. Bolden
Depth to Water	N/A	Date/Time	N/A
Drilling Contractor	Stantec Consulting Services Inc.	Drill Rig Type and ID	CME 55T#2, #709
Overburden Drilling and Sampling Tools (Type and Size)	4-1/4"H SA, 2"SS w/o liners		
Sampler Hammer Type	Automatic	Weight	140 lb
Drop	30"	Efficiency	N/A
Reviewed By	B. Halada	Approved By	B. Evans

Lithology Depth Ft[2]	Elevation	Description	Overburden: / Rock Core:	Sample[1] / RQD %	Depth Ft[2] / Run Ft	Rec. Ft / Rec. Ft	Blows/PSI / Rec. %	Remarks
0.0	97.7	Top of Hole						
0.2	97.5	Topsoil, visible roots and insects		SS01	0.0 - 1.5	1.2	2-2-3	
		POORLY GRADED SAND, SP, 7.5YR 4/3 (brown) to 7.5YR 4/6 (strong brown), fine, loose, moist, no odor						
5.0	92.7							
		SANDY CLAY, CL, 10YR 6/4 (light yellowish brown), medium plasticity, very stiff, moist, no odor, iron oxide staining		SS02	5.0 - 6.5	1.5	5-7-9	
10.4	87.3							
		@ 10.0' , hard		SS03	10.0 - 11.5	1.5	10-19-20	
		POORLY GRADED SAND LITTLE CLAY, SP, 10YR 6/2 (light brownish gray) to 10YR 6/6 (brownish yellow), fine to medium, dense, moist, no odor, iron oxide staining						
		@ 15.0' , 10YR 5/6 (yellowish brown), medium to coarse, loose, wet		SS04	15.0 - 16.5	1.4	2-2-2	
20.0	77.7							
		WELL GRADED SAND SOME GRAVEL, SW, 10YR 5/6 (yellowish brown), medium to coarse, medium dense, wet, no odor, iron oxide staining		SS05	20.0 - 21.5	1.5	5-11-14	
25.7	72.0			SS06a	25.0 - 25.7	1.5	1-2-1	
26.5	71.2	CLAYEY CHALK, 10YR 4/1 (dark gray), wet		SS06b	25.7 - 26.0			

No Refusal /
Bottom of Hole at 26.5 Ft.

Monitoring well installed. Refer to Well Installation form for well completion details.
1: a,b,c denote divided sample
2: Depths are reported in feet below ground surface

STANTEC 1755 STD GREENE_CO_175620203.GPJ BC 1755 STD DATAT R0.GDT 6/22/20

Southern Company

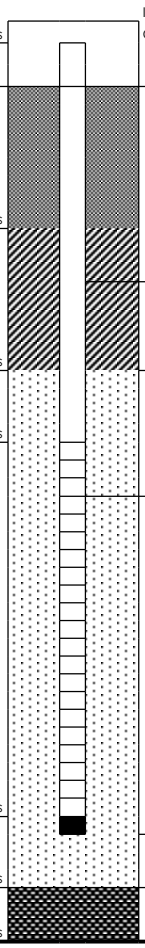
Well Installation Field Log

Project Name:	Plant Greene Ash Pond CCR Delineation Phase II	Date Started:	5/14/2020	Date Completed:	5/14/2020
Borehole/Well No:	GC-AP-MW-59HO	Northing (ft):	946182.75	Easting (ft):	1878417.61
Plant Name:	Plant Greene County	Latitude:	32.6009401	Longitude:	-87.7925159
Plant Address:	801 Steamboat Road, Forkland , AL	Location Datum:	AL West NAD 1983	Elevation Datum:	NAVD 1988
Project & Task Number:	175620203 & 200.03	Surface/ Ground Elevation:	97.72	Stickup (ft, ags):	3.5
Goals/Task:	Delineation Monitoring Well Installation	Borehole Diameter (in):	8	Borehole Depth (ft, bgs):	26.5
Drilling Company:	Stantec	Well Casing Diameter (in):	2	Well Depth (ft, bgs):	24.3
Drilling Equipment/Rig Type:	CME 55 Tack Rig/ (HSA)	Top of Casing elev (ft):	101.69	Screen length (ft):	10
Drilling Method:	Hollow Stem Auger (HSA)	DTW at Completion (ft, bgs):	4.6 (5/15/2020)		
Sampling Method:	175620203 & 200.03				
Prepared By:	Suama Bolden				
Review By:	Carolyn Sexton, PG				

***Not to Scale**

Depth (feet)

Well Construction



Stick up **3.5** ft, ags

Inch Diameter Protective Cover with Locking Lid

Ground surface - 0.0'

Outer casing

Grout 9.9 ft , bgs

2 inch casing

Bentonite 12.0 ft , bgs

20/40 mesh Filter pack

Top of Screen 14.0 ft , bgs

0.010 Slot screen

Bottom of screen 24.0 ft , bgs

24.3 ft , bgs Sump/end cap

Boring caved in. Native sand. 24.3 ft , bgs

24.3 ft , bgs Base of filter pack

Terminus of borehole 26.5, bgs

Materials Inventory

Stick up: 3.5 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing Top: 3.5 ft, ags Bottom: 14.0 ft, bgs

Screen Type: 4"ID x 2"ID Pre-pack

Screen Slot Size: 0.010

Screen Top: 14.0 ft, bgs Bottom: 24.0 ft, bgs

Sump/end cap Top: 24.0 ft, bgs Bottom: 24.3 ft, bgs

Grout Quantity: 35 gal

Grout Type: Pure Gold Bentonite 30% Solid Grout

Grout Top: 0.0 ft, bgs Bottom: 9.9 ft, bgs

Bentonite Type: 1/4" PDS TR30 pellets

Bentonite Seal Top: 9.9 ft, bgs Bottom: 12.0 ft, bgs

Filter Pack - Pre-pack and Annular Space Type (manufacturer, size): 20/40 Mesh (Global #7)

Filter Pack: Top: 12.0 ft, bgs Bottom: 24.3 ft, bgs

Notes: Bentonite seal hydrated 4-hours prior to grout backfill placed.

Boring caved in from 24.3 ft to 26.5 ft.

SIMPLE GEOLOGY LOG - ESEE DATABASE.GDT - 6/15/20 08:37 - S:\WORKGROUPS\APC GENERAL SERVICE COMPLEX\CIVIL TECH SUPPORT\DRILLING\PROJECTS\AL-GREENE COUNTY\GREEN COUNTY CCR DELINEATION 2020\BORING LOGS 2020 (2).GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

APC736377

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County CCR
LOCATION Forkland, AL

DATE STARTED 6/9/2020 **COMPLETED** 6/15/2020 **SURF. ELEV.** Not Surveyed **COORDINATES:**
CONTRACTOR CFS **EQUIPMENT** CME-550 **METHOD** Hollow Stem Auger
DRILLED BY S. Denty **LOGGED BY** S. McDonald **CHECKED BY** B. Coates **ANGLE** **BEARING**
BORING DEPTH 28 ft. **GROUND WATER DEPTH: DURING** 13.5 ft. **COMP.** **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
		Well-graded Sand (SW) - mottled yellow (10YR 7/8), brownish yellow (10YR 6/8) and dark gray (10YR 4/1) alluvium moist, loose, fine- to medium-grained, trace silt, trace organics		
5		**Clayey Sand (SC)** - mottled yellowish brown (10YR 5/8) and yellow (10YR 7/8) alluvium moist, estimated medium dense, high plasticity, fine-grained, cohesive		
10		**Well-graded Sand (SW)** - yellow (10YR 7/8) alluvium dry, loose to very loose, fine- to medium-grained		
15		- mottled yellow (10YR 7/8) and brownish yellow (10YR 6/8) alluvium wet, loose, fine- to coarse-grained, angular to subangular, trace silt		SPT N=8bpf(@13.5ft.)
20		- mottled yellow (10YR 7/6) and brownish yellow / dark yellowish orange (10YR 6/6) alluvium wet, loose, fine- to coarse-grained, angular to subrounded, with trace black mottles at base		SPT N=10bpf(@18.5ft.)
25		- yellow (10YR 7/6) and brownish yellow / dark yellowish orange (10YR 6/6) alluvium wet, medium dense, fine- to coarse-grained, angular to subrounded, with sparse gravel to 1/2" at base, subangular to subrounded		SPT N=16bpf(@23.5ft.)
30		**Marl (MARL)** - greenish gray (5GY 5/1) dry, partially weathered into clay, stiff to very stiff, cohesive, low plasticity		
35		Bottom of borehole at 28.0 feet.		
40				

2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 6/15/20 08:44 - S:\WORKGROUPS\APC GENERAL SERVICE COMPLEX\CIVIL TECH SUPPORT\DRILLING\PROJECTS\AL-GREENE COUNTY\GREEN COUNTY CCR DELINEATION 2020\BORING LOGS 2

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

WELL: GC-AP-MW-46HO

APC736377

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County CCR
LOCATION Forkland, AL

DATE STARTED 6/9/2020 **COMPLETED** 6/15/2020 **SURF. ELEV.** Not Surveyed **COORDINATES:**
CONTRACTOR CFS **EQUIPMENT** CME-550 **METHOD** Hollow Stem Auger
DRILLED BY S. Denty **LOGGED BY** S. McDonald **CHECKED BY** B. Coates **ANGLE** **BEARING**
BORING DEPTH 28 ft. **GROUND WATER DEPTH: DURING** 13.5 ft. **COMP.** **DELAYED**
NOTES Well installed. Refer to well data sheet.

BOREHOLE DATA	DEPTH (ft)	WELL DATA	COMMENTS
Strata		Protective steel cover 3-foot square concrete pad Top of casing Elev. = (DEPTH)	
		Surface Seal: concrete (1.0)	
	5	Annular Fill: 2.5 bags Aquaguard and 1.5 bag Portland Cement	
	10	(11.0)	
		Annular Seal: 1 bucket of Pel-Plug 3/8" Time Release Coated bentonite pellets (14.0)	
	15	Filter: 5 bags of Filtersil industrial quartz sand #1 grade (16.1)	
	20	**Well: 2" OD PVC (SCH 40)** **Screen: 10 ft. pre-pack 0.010-inch slotted**	
	25	Sump:0.40 ft. (26.1) (26.5)	

SIMPLE GEOLOGY LOG - ESEE DATABASE.GDT - 6/15/20 08:38 - S:\WORKGROUPS\APC GENERAL SERVICE COMPLEX\CIVIL TECH SUPPORT\DRILLING\PROJECTS\AL-GREENE COUNTY\GREEN COUNTY CCR DELINEATION 2020\BORING LOGS 2020 (2).GPJ

SOUTHERN COMPANY

LOG OF TEST BORING

APC736377

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County CCR
LOCATION Forkland, AL

DATE STARTED 6/10/2020 **COMPLETED** 6/15/2020 **SURF. ELEV.** Not Surveyed **COORDINATES:**
CONTRACTOR CFS **EQUIPMENT** CME-550 **METHOD** Hollow Stem Auger
DRILLED BY S. Denty **LOGGED BY** S. McDonald **CHECKED BY** B. Coates **ANGLE** **BEARING**
BORING DEPTH 26.3 ft. **GROUND WATER DEPTH: DURING** 18.5 ft. **COMP.** **DELAYED**
NOTES Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	HCL REACTION (Weak / Moderate / Strong)	COMMENTS
5		**Silt (ML)** - mottled brownish yellow (10YR 6/8), light gray (10YR 7/1) and black (10YR 2/1) alluvium dry, estimated medium stiff, nonplastic, clayey, cohesive		
10		**Fat Clay (CH)** - mottled brownish yellow (10YR 6/8) and light gray (5Y 7/1) alluvium dry, stiff to very stiff, medium plasticity, cohesive, trace organics		
		- mottled light gray (N7), brownish yellow (10YR 6/8) and yellowish red (5YR 5/8) alluvium moist, estimated medium stiff to stiff, high plasticity, cohesive, trace organics		
15		- mottled yellowish brown (10YR 5/8) and light gray (N7) alluvium moist, medium stiff, high plasticity, trace silt, cohesive		SPT N=6bpf(@13.5ft.)
20		**Poorly-graded Sand (SP)** - gray (5Y 5/1) alluvium wet, fine-grained - strong brown (7.5YR 5/8) and yellowish red (5YR 5/8) alluvium wet, loose, fine-grained, angular to subangular, trace silt, with small subrounded gravel in bottom 3" (estimated 30%)		SPT N=9bpf(@18.5ft.)
25		**Well-graded Sand (SW)** - yellow (10YR 7/6) and very pale brown / grayish orange (10YR 7/4) alluvium wet, medium dense, fine- to very coarse-grained, angular to subrounded, with 1" light gray clay at 24'; below clay est. 10-15% subangular to subrounded, small gravel		SPT N=11bpf(@23.5ft.)
30		**Marl (MARL)** - medium light gray (N6) and greenish gray (10Y 6/1) dry, ~80% small, angular to subrounded, small gravel with sand above marl partially weathered into clay, cohesive, very stiff to hard, medium plasticity		
35		Bottom of borehole at 26.3 feet.		
40				

2012 WELL CONSTRUCTION RECORD - ESEE DATABASE.GDT - 6/15/20 08:44 - S:\WORKGROUPS\APC GENERAL SERVICE COMPLEX\CIVIL TECH SUPPORT\DRILLING\PROJECTS\AL-GREENE COUNTY\GREEN COUNTY CCR DELINEATION 2020\BORING LOGS 2

SOUTHERN COMPANY

RECORD OF WELL CONSTRUCTION

WELL: GC-AP-MW-52HO

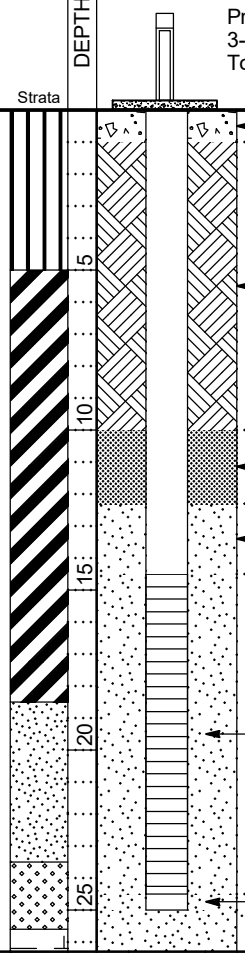
APC736377

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

PROJECT Plant Greene County CCR
LOCATION Forkland, AL

DATE STARTED 6/10/2020 **COMPLETED** 6/15/2020 **SURF. ELEV.** Not Surveyed **COORDINATES:**
CONTRACTOR CFS **EQUIPMENT** CME-550 **METHOD** Hollow Stem Auger
DRILLED BY S. Denty **LOGGED BY** S. McDonald **CHECKED BY** B. Coates **ANGLE** **BEARING**
BORING DEPTH 26.3 ft. **GROUND WATER DEPTH: DURING** 18.5 ft. **COMP.** **DELAYED**
NOTES Well installed. Refer to well data sheet.

BOREHOLE DATA	DEPTH (ft)	WELL DATA	COMMENTS
Strata		Protective steel cover 3-foot square concrete pad Top of casing Elev. = (DEPTH)	



Surface Seal: concrete (1.0)

Annular Fill: 1 bag Aquaguard and 0.5 bag Portland Cement (10.0)

Annular Seal: 1 bucket of Pel-Plug 3/8" Time Release Coated bentonite pellets (12.3)

Filter: 6.5 bags of Filtersil industrial quartz sand #1 grade (14.5)

Well: 2" OD PVC (SCH 40)
Screen: 10 ft. pre-pack 0.010-inch slotted

Sump:0.50 ft. (24.5) (25.0)

Appendix B

WELL ABANDONMENT REPORT

Southern Company Services is including the following monitoring well abandonment report which documents the activities related to the abandonment of one groundwater monitoring well and a temporary boring for Alabama Power Company's Plant Greene County 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.

Well abandonment activities were conducted in general accordance with USEPA Region 4 Standard Operating Procedures and Alabama well construction standards described in Administrative Code R. 335-13 and the Alabama Environmental Investigation and Remediation Guidance (AEIRG; Revised 2017).

The field activities were performed on May 15 and May 16, 2020. The field work consisted of the abandonment of one existing groundwater monitoring well, GC-AP-MW-56H, that did not produce sufficient water to allow for development or sampling.

Additionally, a temporary boring, GC-AP-MW-58H, was installed in an effort to replace horizontal monitoring well GC-AP-MW-56H. The replacement monitoring well was located proximal to well GC-AP-MW-56H but kept to a minimum of 25 feet away to reduce potential for grout contamination stemming from the abandonment of GC-AP-MW-56H.

The methodology to determine if the replacement well would be a viable groundwater producer or technically justifiable in installation was based on the measurement of a target water column length the day after advancing the soil boring to target depth (top of chalk). The target water column length for a permanent well is five feet based on placement of the pump intake at least one foot above the base of the screen and having sufficient sample volume to collect a complete sample set with quality assurance/quality control samples within one day. The target water column length was not immediately observed in the borehole after drilling and the augers were left in the borehole overnight. The water level was measured the next day and less than five feet of water was present in the borehole, and subsequently the boring was abandoned.

The data obtained from GC-AP-MW-56H and GC-AP-MW-58 demonstrate that this area is not a viable groundwater producing zone for groundwater monitoring or delineation activities even using low-flow sampling methods. Groundwater infiltration and recharge in these areas is likely reduced by a small catchment zone and nearby paved surfaces. No further activity is planned for the area.

The monitoring well and temporary boring were abandoned by the Stantec Consulting Services drilling crew. Monitor well GC-AP-MW-56H was abandoned in place after removing the upper ten feet of PVC riser pipe and grouting from the total depth by pressure grouting with the positive displacement method (tremie method). The monitoring well concrete pads were removed and disposed of along with similar construction activity debris in a non-hazardous landfill. Temporary boring, GC-AP-MW-58H, was grouted from the total depth to the surface by pressure grouting with the positive displacement method through the hollow stem augers as they were removed from the bore hole. Table 1: Monitoring Well Abandonment Details, boring logs and well installation logs and well abandonment forms detailing abandonment activities have been included as Attachment A. Monitor well locations are depicted on **Figure 5, Monitor Well Location Map**.

Attachment A

TABLE 1: MONITORING WELL ABANDONMENT DETAILS
Southern Company Services Plant Greene County

Well ID	Installation Date	Well Abandoned	Screened Formation	Northing AL NAD 1983 (ft)	Easting AL NAD 1983 (ft)	Top of Casing NAVD 1988 (ft-msl)	Top of Ground NAVD 1988 (ft-msl)	Well/Boring Depth (ft bgs)	Existing Stickup Height (ft ags)	Well Diameter (inches)	Screened (ft bgs)	**Rationale**
GC-AP-MW-56H	12/8/2019	5/15/2020	Poorly graded Sand	946135.25	1878630.16	105.24	102.25	21.5	2.99	2.00	11.9-21.9	Water column in boring less than recommended 5 feet. A ten foot (10) two-inch ID riser was removed from well prior to abandonment
GC-AP-MW-58H	5/15/2020	5/16/2020	NA	NA	NA	NA	NA	26.5	NA	NA	NA	Water column in boring less than recommended 5 feet after 24 hours waiting period. Hollow Stem Augers (HSA), 4.25" ID, where extracted and well was abandoned. Water level at time of abandonment:18.91' bgs. Boring was drilled to 26.5 ft bgs. Boring caved in with natural sand from 22.64 to 26.5 ft bgs.

Abbreviations:

ft	feet
ft bgs	feet below top of ground surface
ft ags	feet above ground surface
in	inches
NA	Not Available

SOUTHERN COMPANY

LOG OF TEST BORING

SOUTHERN COMPANY SERVICES, INC.
EARTH SCIENCE AND ENVIRONMENTAL ENGINEERING

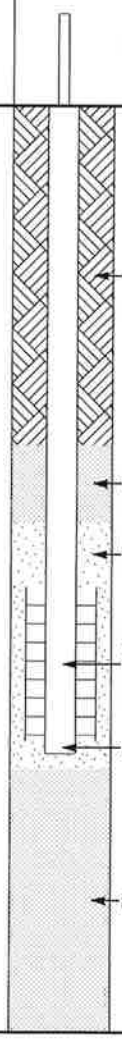
PROJECT Plant Greene Co. CCR Well Delineation
LOCATION Greene Co, Alabama

DATE STARTED 12/8/2019 **COMPLETED** 12/8/2019 **SURF. ELEV.** 102.3 **COORDINATES:** N 948,135.25 E 1,878,630.16
CONTRACTOR Cascade **EQUIPMENT** **METHOD** Rotosonic
DRILLED BY **LOGGED BY** T. Trieu **CHECKED BY** L. Noble **ANGLE** **BEARING**
BORING DEPTH 30 ft. **GROUND WATER DEPTH: DURING** 8 ft. **COMP.** 7.54 ft. **DELAYED** 20.93 ft. after 24 hrs.
NOTES Bentonite soaked for 3 hours prior to grouting the hole. Well installed. Refer to well data sheet.

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	GROUNDWATER OBSERVATIONS
		Fat Clay (CH) - Moist, mottled, brownish ornage, light brown, and pale yellow, fat CLAY with fine sand		
5				
		Fat Clay (CH) - Moist, light brown, fat CLAY with fine sand		
10		**Clayey Sand (SC)** - Moist, light brown, pale yellow, and brownish orange, fine, clayey SAND		
		Poorly-graded Sand with Silt (SP-SM) - Moist to wet, pink, pale ywllow, light brown, and gray, fine to medium SAND with silt		
15				
		Poorly-graded Sand (SP) - Moist, gray and brownish orange, fine to coarse, poorly graded SAND		
20				
		Fat Clay (CH) - Moist, brown, fat CLAY		
25		**(CHALK)** - Moist, bluish gray CHALK		
30				
35				
40				

Bottom of borehole at 30.0 feet.

WELL DATA



SIMPLE GEOLOGY WITH WELL 2019 (WOOD 3) - ESEE DATABASE.GDT - 2/6/20 17:25 - L:\GINT8\GINT8 - AMEC\PROJECTS\2019 PROJECTS\7630181575 - 2019 GREENE CO CCR DELINEATION WELLS.GPJ

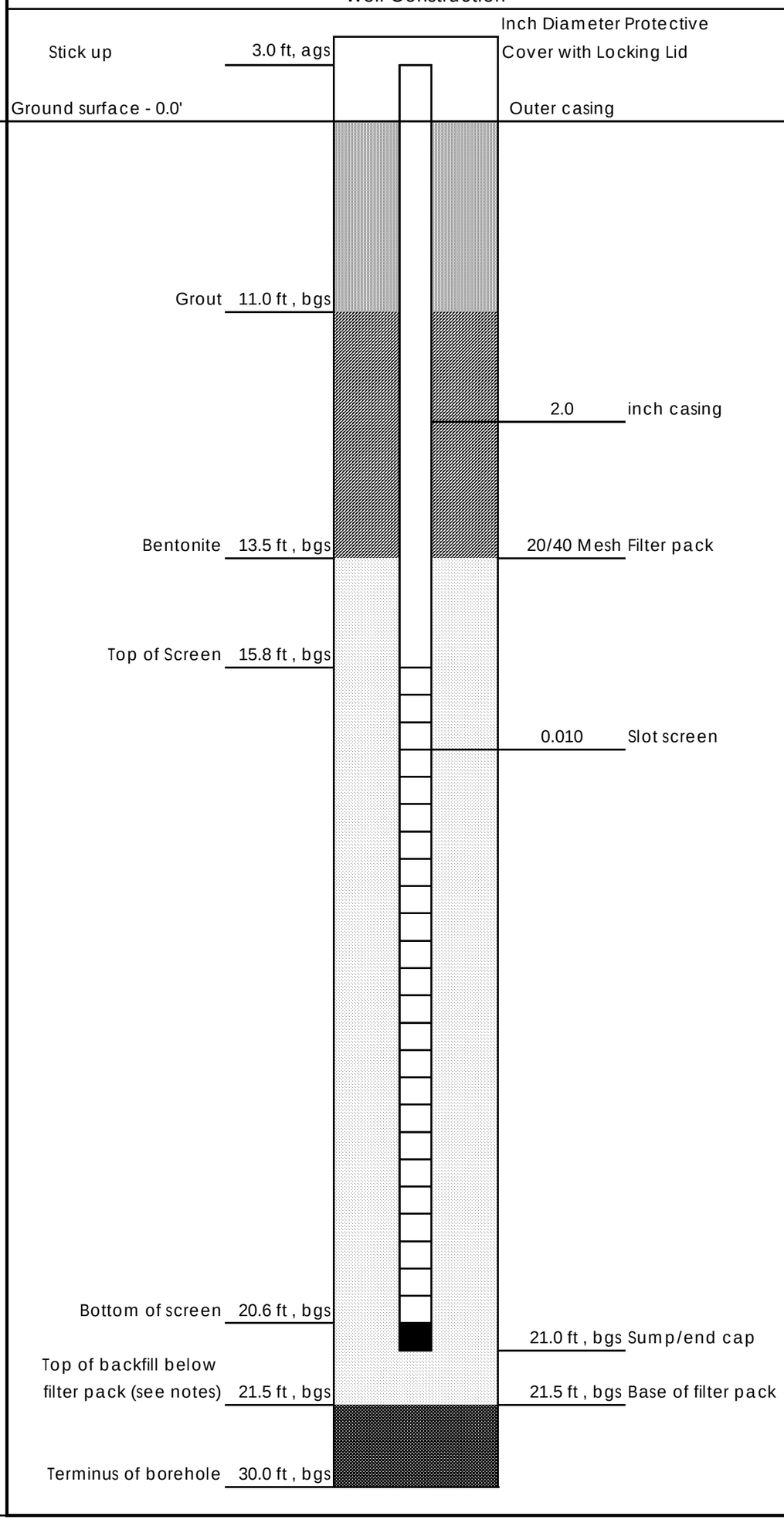
Well Installation Field Log

Project Name:	Plant Greene County Phase II Delineation	Date Started:	12/8/2019	Date Completed:	12/8/2019
Borehole/Well No:	BY-AP-MW-56H	Northing (ft):	948135.25	Easting (ft):	1878630.16
Plant Name:	Plant Greene County	Latitude:	32.6063084	Longitude:	-87.7918431
Plant Address:	801 Steam Plant Road Forkland, AL	Location Datum:	NAD 83	Elevation Datum:	MSL
		Surface/ Ground Elevation:	102.25	Stickup (ft, ags):	3.0
Goals/Task:	Groundwater Delineation	Borehole Diameter (in):	6	Borehole Depth (ft, bgs):	30.0
Drilling Company:	Cascade	Well Casing Diameter (in):	2.0	Well Depth (ft, bgs):	21.0
Drilling Equipment/Rig Type:	Sonic	Top of Casing elev (ft):	105.24	Screen length (ft):	5.2
Drilling Method:	Sonic	DTW at Completion (ft, bgs):	20.93		
Sampling Method:	4-inch Sonic Core				
Prepared By:	G. Budd				
Reviewed By:					

*Not to Scale

Depth (feet)

Well Construction



Materials Inventory

Stick up: 3.0 ft, ags

Casing Type (steel or PVC, schedule 40 or 80): PVC schedule 40

Casing
Top: 3.0 ft, ags Bottom: 15.8 ft, bgs

Screen Type: 4"ID x 2"ID U-pack

Screen Slot Size: 0.010

Screen
Top: 15.8 ft, bgs Bottom: 20.6 ft, bgs

Sump/end cap
Top: 20.6 ft, bgs Bottom: 21.0 ft, bgs

Grout Quantity: 15 gallons

Grout Type: 30% Solids Pure Bentonite

Grout
Top: 0.0 ft, bgs Bottom: 11.0 ft, bgs

Density
Initial: NM lbs/gal Return: NM lbs/gal

Bentonite Type: Holeplug 3/8" Chips

Bentonite Seal
Top: 11.0 ft, bgs Bottom: 13.5 ft, bgs

Filter Pack - Pre-pack and Annular Space
Type (manufacturer, size): 20/40 Mesh

Filter Pack:
Top: 13.5 ft, bgs Bottom: 21.5 ft, bgs

Notes: Bentonite seal hydrated 3-hours prior to grout backfill placed.
NM = Not Measured

Backfill below sand pack: Bentonite chips placed from 30.0' to21.5'

SUBSURFACE LOG (DRAFT)

Client Borehole ID	N/A	Stantec Boring No.	**GC-AP-MW-58H**
Client	Southern Company Services	Boring Location	TBD
Project Number	175620203	Surface Elevation	TBD
Elevation Datum	TBD		
Project Name	Plant Greene - Phase II Delineation Monitoring Wells	Date Started	5/15/20
Completed	5/15/20		
Project Location	Greene County Co, Forkland, Alabama	Depth to Water	N/A
Date/Time	N/A		
Inspector	S. Bolden	Logger	S. Bolden
Depth to Water	N/A	Date/Time	N/A
Drilling Contractor	Stantec Consulting Services Inc.	Drill Rig Type and ID	CME 55T#2, #709
Overburden Drilling and Sampling Tools (Type and Size)	4-1/4"H SA, 2"SS w/o liners		
Sampler Hammer Type	Automatic	Weight	140 lb
Drop	30"	Efficiency	N/A
Reviewed By	B. Halada	Approved By	B. Evans

Depth Ft[2]	Elevation	Description	Overburden: / Rock Core:	Sample[1] / RQD %	Depth Ft[2] / Run Ft	Rec. Ft / Rec. Ft	Blows/PSI / Rec. %	Remarks
0.0		Top of Hole						
		Hand cleared to 5.0 ft no samples were collected.						
5.0								
6.2		POORLY GRADED SAND LITTLE CLAY, SP, 7.5YR 5/8 (strong brown), fine, medium dense, dry, no staining		SS01	5.0 - 6.5	1.5	8-7-8	
10.0		CLAYEY SAND, SC, 10YR 6/6 (brownish yellow) to 7.5YR 5/8 (strong brown), fine, medium dense, dry, no odor, no staining, poorly graded		SS02	10.0 - 11.5	1.3	5-6-7	
		POORLY GRADED SAND TRACE CLAY, SP, 10YR 6/4 (light yellowish brown), fine, medium dense, moist, no odor, iron oxide staining						
		@ 15.0' , 10YR 6/4 (light yellowish brown) to 7.5YR 5/8 (strong brown), fine to medium		SS03	15.0 - 16.5	1.5	4-6-5	
		@ 20.0' , 7.5YR 5/8 (strong brown), medium to coarse, wet at 21.4 ft.		SS04	20.0 - 21.5	1.5	5-6-6	
24.0								
		CHALK, 10YR 5/1 (gray)						
26.5				SS05	25.0 - 26.5	1.5	15-24-23	

No Refusal /
Bottom of Hole at 26.5 Ft.

Insufficient water for monitoring well. Refer to Well Abandonment form for details.
1: a,b,c denote divided sample
2: Depths are reported in feet below ground surface

STANTEC 1755 STD GREENE_CO_175620203.GPJ BC 1755 STD DATAT R0.GDT 6/22/20

Monitoring Well Abandonment Form

Stantec

General Information

Project Name: Plant Greene – Phase II – Deleneation Monitoring Well Installation

Monitoring Well Number: GC-AP-MW-56H

Plant Name: Plant Greene County

Plant Address: 801 Steam Plant Rd, Forkland, AL 36740

Abandoned by: Greg Budd, P.G./ Suama Bolden

Project & Task Number: 175620203 200.03

Date: 5/15/2020

Goal/Task: Hydrogeologic Investigation

Well Details (Check one per section):

Casing Diameter		Borehole Diameter		Well Type	
X	2"	X	6"	X	Permanent
n/a	4"	n/a	8"	n/a	Temporary
n/a	6"	n/a	12"	n/a	Geoprobe® Screen Point (GSP) or Equiv.
n/a	Other/NA	n/a	Other/NA	21.51	Measured Total Depth
				19.15	Measured Static Water Level

Casing Material

X	PVC
n/a	Steel
n/a	Other/NA

Abandonment Details (Check one per section):

Refer to attached boring log GC-AP-MW-56H

Abandonment Method (as detailed in SOW)

n/a	Overdrill and Grout
n/a	Well Extraction (10 ft, 2-inch PVC riser pipe was extracted from well).
X	Grout in Place
n/a	Bentonite Sealing-Pellets and Neat Cement (low-risk GSP only)
n/a	Bentonite Sealing-Pellets only (low-risk GSP only)
n/a	Probe Hole Grouting (higher risk GSP only)
n/a	Re-proved for through-the-rod grouting (GSP only alternative)

Materials and Quantity Used

n/a	Type 1 Portland Cement mixed with 3-5% bentonite
n/a	Bentonite Pellets
n/a	Neat Cement
X	Other - (1 (50lbs) Pure Gold Grout + 14 gallons water ~17 gallons grout)

Overdrilled Well Cuttings and Debris

n/a	Staged Onsite for Disposal (covered top and bottom with poly-sheeting)
n/a	Drummed for Disposal

Prepared By:	Suama Bolden	Date:	5/15/2020	Signature:	
Reviewed By:	Edgar Smith	Date:	6/24/2020	Signature:	
Approved By:	Briggs Evans	Date:	6/24/2020	Signature:	

Monitoring Well Abandonment Form

Stantec

General Information

Project Name: Plant Greene – Phase II – Deleneation Monitoring Well Installation

Monitoring Well Number: GC-AP-MW-58H

Plant Name: Plant Greene County

Plant Address: 801 Steam Plant Rd, Forkland, AL 36740

Abandoned by: Greg Budd, P.G./ Suama Bolden

Project & Task Number: 175620203 200.03

Date: 5/16/2020

Goal/Task: Hydrogeologic Investigation

Well Details (Check one per section):

Casing Diameter		Borehole Diameter		Well Type	
n/a	2"	n/a	6"	n/a	Permanent
n/a	4"	X	8"	X	Temporary
n/a	6"	n/a	12"	n/a	Geoprobe® Screen Point (GSP) or Equiv.
n/a	Other/NA	n/a	Other/NA	22.64	Measured Total Depth
				18.91	Measured Static Water Level

Casing Material

n/a	PVC
X	Steel (4.25" temporary HSA)
n/a	Other/NA

Abandonment Details (Check one per section):

Refer to attached boring log GC-AP-MW-58H

Abandonment Method (as detailed in SOW)

n/a	Overdrill and Grout
n/a	Well Extraction
X	Grout in Place
n/a	Bentonite Sealing-Pellets and Neat Cement (low-risk GSP only)
n/a	Bentonite Sealing-Pellets only (low-risk GSP only)
n/a	Probe Hole Grouting (higher risk GSP only)
n/a	Re-proved for through-the-rod grouting (GSP only alternative)

Materials and Quantity Used

n/a	Type 1 Portland Cement mixed with 3-5% bentonite
n/a	Bentonite Pellets
n/a	Neat Cement
X	Other - (4 (50lbs) Pure Gold Grout + 56 gallons water ~ 68 gallons grout)

Overdrilled Well Cuttings and Debris

n/a	Staged Onsite for Disposal (covered top and bottom with poly-sheeting)
n/a	Drummed for Disposal

Prepared By:	Suama Bolden	Date:	5/16/2020	Signature:	
Reviewed By:	Edgar Smith	Date:		Signature:	
Approved By:	Briggs Evans	Date:	6/24/2020	Signature:	

Appendix C

Appendix C
Abbreviations

Abbreviations:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. N/A indicates the constituent was not analyzed during the sampling event.
4. J value indicates the result is greater that or equal to the Method Detection Limit (MDL) and less that the Practical Quantitation Limit (PQL).
Values are displayed as less than the PQL with a J.
5. Non-Detect indicates the result was not detected above the MDL and is considered a non-detect.
6. 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.
7. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.

Analytical Data Summary
Plant Greene County Ash Pond
Alabama Power Company

		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-1	2/17/2016	0.219	204	16	0.05(J)	5.8	785	1540	Non-Detect	0.0181	0.0364	Non-Detect	Non-Detect	Non-Detect	0.0395	<3	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00277(J)	0.000601(J)
GC-AP-MW-1	4/13/2016	0.211	152	21.5	0.061(J)	5.85	715	1200	Non-Detect	0.0178	0.0344	Non-Detect	Non-Detect	Non-Detect	0.0452	1.0468(U)	0.061(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	6/1/2016	0.2	183	52.5	0.079(J)	5.92	832	1440	Non-Detect	0.016	0.0353	Non-Detect	Non-Detect	Non-Detect	0.0576	1.43	0.079(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	8/15/2016	0.211	197	33.3	0.081(J)	5.99	862	1420	Non-Detect	0.0182	0.0395	Non-Detect	Non-Detect	Non-Detect	0.0573	1.42	0.081(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	10/11/2016	0.23	186	22.2	0.049(J)	6.02	888	1420	Non-Detect	0.0186	0.0455	Non-Detect	Non-Detect	Non-Detect	0.0531	1.6	0.049(J)	Non-Detect	0.0194(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	1/24/2017	0.218	193	18.4	n/a	5.92	906	1350	0.000799(J)	0.0173	0.0428	Non-Detect	Non-Detect	Non-Detect	0.0539	1.3	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	3/14/2017	n/a	n/a	n/a	0.04(J)	5.96	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-1	5/9/2017	0.235	184	30	0.05(J)	5.93	810	1540	Non-Detect	0.0176	0.0399	Non-Detect	Non-Detect	Non-Detect	0.057	0.844	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	6/27/2017	0.206	184	29	0.04(J)	5.86	830	1470	Non-Detect	0.0165	0.0348	Non-Detect	Non-Detect	Non-Detect	0.0664	1.32	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00206(J)	Non-Detect
GC-AP-MW-1	8/30/2017	0.138	182	23	0.04(J)	5.88	910	1530	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-1	2/27/2018	n/a	n/a	n/a	0.07(J)	5.92	n/a	n/a	Non-Detect	0.0201	0.0398	Non-Detect	Non-Detect	Non-Detect	0.0652	n/a	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00206(J)	Non-Detect
GC-AP-MW-1	2/28/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.815	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-1	6/4/2018	0.242	157	22	0.07(J)	5.89	850	1370	Non-Detect	0.0195	0.0314	Non-Detect	Non-Detect	Non-Detect	0.0758	1.01	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	9/10/2018	n/a	219	22	n/a	5.89	920	1380	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-1	11/6/2018	0.247	186	17	0.04(J)	5.95	880	1450	Non-Detect	0.0189	0.0348	Non-Detect	Non-Detect	Non-Detect	0.0898	0.938	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	3/27/2019	0.488	73.8	18	0.192	5.8	1090	1910	Non-Detect	0.0267	0.0286	Non-Detect	Non-Detect	Non-Detect	0.176	1.17	0.192	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	9/10/2019	0.398	147	18.1	0.179	5.88	992	1740	Non-Detect	0.0226	0.0283	Non-Detect	Non-Detect	Non-Detect	0.104	1.39	0.179	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	4/21/2020	0.347	90.5	19.5	0.12	5.72	874	1530	Non-Detect	0.0219	0.0206	Non-Detect	Non-Detect	Non-Detect	0.206	0.712	0.12	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-1	8/17/2020	0.496	81.5	23.2	0.115	5.54	919	1590	Non-Detect	0.0265	0.0218	Non-Detect	Non-Detect	Non-Detect	0.195	1.46	0.115	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-2	2/17/2016	0.146	75	14.7	0.09(J)	6.01	304	516	Non-Detect	0.0142	0.0311	Non-Detect	Non-Detect	Non-Detect	0.00989(J)	<3	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.000388(J)
GC-AP-MW-2	4/13/2016	0.125	70.2	14.3	0.092(J)	6.17	307	508	Non-Detect	0.0145	0.0334	Non-Detect	Non-Detect	Non-Detect	0.0106	<3	0.092(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	6/1/2016	0.114	71.2	14.6	0.108(J)	6.18	273	494	Non-Detect	0.0112	0.029	Non-Detect	Non-Detect	Non-Detect	0.011	0.758	0.108(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	8/15/2016	0.128	72.2	14.7	0.105(J)	6.12	275	476	Non-Detect	0.0154	0.0317	Non-Detect	Non-Detect	Non-Detect	0.0117	0.638	0.105(J)	0.00104(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	10/11/2016	0.129	73.8	14.8	0.062(J)	6.09	284	508	Non-Detect	0.0113	0.0339	Non-Detect	Non-Detect	Non-Detect	0.0117	0.701	0.062(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	1/24/2017	0.124	72.2	15	n/a	6.04	302	510	0.00084(J)	0.0115	0.0276	Non-Detect	Non-Detect	Non-Detect	0.00863(J)	0.515(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	3/14/2017	n/a	n/a	n/a	Non-Detect	6.11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-2	5/9/2017	0.121	66.4	16	0.07(J)	6.1	250	510	Non-Detect	0.00989	0.0285	Non-Detect	Non-Detect	Non-Detect	0.000975(J)	0.393(U)	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	6/28/2017	0.111	65.4	15	0.09(J)	6.09	230	480	Non-Detect	0.00848	0.0273	Non-Detect	Non-Detect	Non-Detect	0.0102	0.374	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	8/30/2017	0.0915(J)	67.8	15	0.07(J)	6.07	250	478	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.07(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-2	2/27/2018	n/a	n/a	n/a	0.08(J)	6.09	n/a	n/a	Non-Detect	0.0106	0.0292	Non-Detect	Non-Detect	Non-Detect	0.00924(J)	0.334(U)	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	6/4/2018	0.134	68.3	16	0.09(J)	6.07	260	528	Non-Detect	0.0124	0.0298	Non-Detect	Non-Detect	Non-Detect	0.00866(J)	0.64	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	9/10/2018	n/a	73.9	17	n/a	6	280	472	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-2	11/6/2018	0.131	75.1	17	0.07(J)	6.04	280	522	Non-Detect	0.0085	0.0286	Non-Detect	Non-Detect	Non-Detect	0.0101	0.803	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	3/27/2019	0.138	96.1	14.8	0.089(J)	6.06	375	562	Non-Detect	0.0101	0.0311	Non-Detect	Non-Detect	Non-Detect	0.0131	0.77	0.089(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	9/9/2019	0.157	111	14	0.163	6.13	385	666	Non-Detect	0.022	0.035	Non-Detect	Non-Detect	Non-Detect	0.0154	0.3(U)	0.163	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	4/21/2020	0.14	133	12.3	0.126	5.99	522	878	Non-Detect	0.013	0.0335	Non-Detect	Non-Detect	Non-Detect	0.0194	0.663(U)	0.126	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-2	8/17/2020	0.152	156	13.1	0.0753(J)	5.91	497	818	Non-Detect	0.00768	0.0376	Non-Detect	Non-Detect	Non-Detect	0.0249	0.817	0.0753(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-3	2/17/2016	0.0288(J)	106	25.2	0.08(J)	6.29	Non-Detect	358	Non-Detect	0.00668	0.0896	Non-Detect	Non-Detect	Non-Detect	0.00507(J)	<3	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00038(J)
GC-AP-MW-3	4/12/2016	0.0293(J)	95.2	24.6	0.083(J)	6.33	0.49(J)	393	Non-Detect	0.00827	0.0994	Non-Detect	Non-Detect	Non-Detect	0.0047(J)	<3	0.083(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	6/1/2016	0.0279(J)	86.1	24.5	0.118(J)	6.4	0.544(J)	381	Non-Detect	0.00768	0.104	Non-Detect	Non-Detect	Non-Detect	0.00372(J)	1.06	0.118(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	8/15/2016	0.0332(J)	89.7	24.2	0.109(J)	6.36	0.332(J)	348	Non-Detect	0.00798	0.102	Non-Detect	Non-Detect	Non-Detect	0.0039(J)	0.972	0.109(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	10/11/2016	0.0328(J)	90.6	24.4	0.066(J)	6.38	Non-Detect	379	Non-Detect	0.008	0.11	Non-Detect	Non-Detect	Non-Detect	0.00415(J)	0.802	0.066(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	1/24/2017	0.0262(J)	94.2	24.6	n/a	6.34	Non-Detect	354	0.000906(J)	0.00722	0.0942	Non-Detect	Non-Detect	Non-Detect	0.00383(J)	1.1	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	3/14/2017	n/a	n/a	n/a	0.07(J)	6.42	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.07(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-3	5/9/2017	0.0298(J)	90.3	27	0.09(J)	6.35	2.1(J)	368	Non-Detect	0.00766	0.105	Non-Detect	Non-Detect	Non-Detect	0.00396(J)	0.74	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	6/28/2017	0.0226(J)	80.7	26	0.1	6.32	Non-Detect	368	Non-Detect	0.00745	0.104	Non-Detect	Non-Detect	Non-Detect	0.00336(J)	0.867	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	8/30/2017	Non-Detect	84	26	0.12	6.32	Non-Detect	370	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.12	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-3	2/27/2018	n/a	n/a	n/a	0.09(J)	6.39	n/a	n/a	Non-Detect	0.00699	0.0989	Non-Detect	Non-Detect	Non-Detect	0.00442(J)	0.905	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	6/4/2018	0.0296(J)	98.8	27	0.1	6.4	1.4(J)	369	Non-Detect	0.00731	0.0936	Non-Detect	Non-Detect	Non-Detect	0.0038(J)	0.954	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	9/12/2018	n/a	109	26	n/a	6.35	Non-Detect	354	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-3	11/6/2018	0.0268(J)	110	26	0.1	6.34	Non-Detect	354	Non-Detect	0.00685	0.0936	Non-Detect	Non-Detect	Non-Detect	0.00439(J)	1.27	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	3/27/2019	0.0316(J)	111	24.8	0.13	6.44	6.64	362	Non-Detect	0.00596	0.0951	Non-Detect	Non-Detect	Non-Detect	0.00463(J)	1.47	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	9/9/2019	0.035(J)	98.5	23.8	0.121	6.22	6.56	371	Non-Detect	0.00806	0.111	Non-Detect	Non-Detect	Non-Detect	0.00413(J)	1.12	0.121	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	4/20/2020	Non-Detect	91.2	24.5	0.112	6.4	10.5	371	Non-Detect	0.00751	0.109	Non-Detect	Non-Detect	Non-Detect	0.00396(J)	0.889	0.112	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-3	8/17/2020	0.0636(J)	78.9	24.6	0.148	5.85	17.3	361	Non-Detect	0.00909	0.139	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.738	0.148	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-5	2/17/2016	0.478	59.8	16.4	0.22(J)	6.63	Non-Detect	238	Non-Detect	0.353	0.397	Non-Detect	Non-Detect	Non-Detect	0.0216	<3	0.22(J)	Non-Detect	0.0883	Non-Detect	0.00347(J)	Non-Detect	0.000779(J)
GC-AP-MW-5	4/12/2016	0.467	56.1	16.6	0.214(J)	6.59	0.483(J)	316	Non-Detect	0.402	0.434	Non-Detect	Non-Detect	Non-Detect	0.0205	<3	0.214(J)	Non-Detect	0.0862	Non-Detect	0.00297(J)	Non-Detect	Non-Detect
GC-AP-MW-5	5/31/2016	0.443	56.6	16.8	0.232(J)	6.57	0.518(J)	320	Non-Detect	0.33	0.354	Non-Detect	Non-Detect	Non-Detect	0.0196	2.11	0.232(J)	Non-Detect	0.085	Non-Detect	0.00261(J)	Non-Detect	Non-Detect
GC-AP-MW-5	8/17/2016	0.477	61	16.4	0.225(J)	6.72	3.63	325	Non-Detect	0.369	0.397	Non-Detect	Non-Detect	Non-Detect	0.0169	2.28	0.225(J)	Non-Detect	0.093	Non-Detect	0.0033(J)	Non-Detect	Non-Detect
GC-AP-MW-5	10/11/2016	0.489	61.3	15.2	0.19(J)	6.69	15.6	333	Non-Detect	0.378	0.485	Non-Detect	Non-Detect	Non-Detect	0.0157	1.83	0.19(J)	Non-Detect	0.0928	Non-Detect	0.0041(J)	Non-Detect	Non-Detect
GC-AP-MW-5	1/24/2017	0.475	61	15.1	n/a	6.61	28.9	336	0.000728(J)	0.386	0.472	Non-Detect	Non-Detect	Non-Detect	0.00858(J)	1.92	n/a	Non-Detect	0.094	Non-Detect	0.00336(J)	Non-Detect	Non-Detect
GC-AP-MW-5	3/14/2017	n/a	n/a	n/a	0.22	6.55	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-5	5/9/2017	0.479	61.7	17	0.21	6.65	25	317	Non-Detect	0.406	0.512	Non-Detect	Non-Detect	Non-Detect	0.00755(J)	3.05	0.21	Non-Detect	0.0865	Non-Detect	0.0031(J)	Non-Detect	Non-Detect
GC-AP-MW-5	6/28/2017	0.448	66.1	17	0.21	6.66	45	373	Non-Detect	0.353	0.48	Non-Detect	Non-Detect	Non-Detect	0.0069(J)	2.24	0.21	Non-Detect	0.0879	Non-Detect	0.00356(J)	Non-Detect	Non-Detect
GC-AP-MW-5	8/30/2017	0.407	78.9	17	0.25	6.66	96	432	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.25	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-5	2/27/2018	n/a	n/a	n/a	0.23	6.73	n/a	n/a	Non-Detect	0.425	0.269	Non-Detect	Non-Detect	Non-Detect	0.00471(J)	1.01	0.23	Non-Detect	0.113	Non-Detect	0.0042(J)	Non-Detect	Non-Detect
GC-AP-MW-5	6/5/2018	0.489	64.8	15	0.24	6.63	36	347	Non-Detect	0.454	0.27	Non-Detect	Non-Detect	Non-Detect	0.00481(J)	1.39	0.24	Non-Detect	0.101	Non-Detect	0.00293(J)	Non-Detect	Non-Detect
GC-AP-MW-5	9/11/2018	n/a	72.2	14	n/a	6.65	48	370	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-5	11/6/2018	0.508	78.9	13	0.22	6.65	93	409	Non-Detect	0.432	0.306	Non-Detect	Non-Detect	Non-Detect	0.00545	1.72	0.22	Non-Detect	0.116	Non-Detect	0.00318(J)	Non-Detect	Non-Detect
GC-AP-MW-5	3/27/2019	0.502	69.1	16.1	0.208	6.59	33.4	328	Non-Detect	0.455	0.251	Non-Detect	Non-Detect	Non-Detect	0.00614	1.56	0.208	Non-Detect	0.0988	Non-Detect	0.00284(J)	Non-Detect	Non-Detect
GC-AP-MW-5	9/11/2019	0.595	90.8	11.6	0.2	6.36	149	455	Non-Detect	0.406	0.323	Non-Detect	Non-Detect	Non-Detect	0.00767	1.46	0.2	Non-Detect	0.117	Non-Detect	0.00328(J)	Non-Detect	Non-Detect
GC-AP-MW-5	4/21/2020	0.72	93	12.3	0.224	6.5	163	494	Non-Detect	0.42	0.138	Non-Detect	Non-Detect	Non-Detect	0.00601	0.882	0.224	Non-Detect	0.13	Non-Detect	0.00255(J)	Non-Detect	Non-Detect
GC-AP-MW-5	8/12/2020	0.695	92.2	13	0.221	6.36	132	433	Non-Detect	0.415	0.134	Non-Detect	Non-Detect	Non-Detect	0.00678	2.08	0.221	Non-Detect	0.132	Non-Detect	0.00292(J)	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-6	2/17/2016	2.12	128	31.8	0.17(J)	6.46	132	640	Non-Detect	Non-Detect	0.0455	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.17(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.000639(J)
GC-AP-MW-6	4/12/2016	2.06	115	28.9	0.203(J)	6.45	130	610	Non-Detect	Non-Detect	0.0455	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.203(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	5/31/2016	1.97	118	28.7	0.212(J)	6.51	111	626	Non-Detect	Non-Detect	0.0407	Non-Detect	Non-Detect	Non-Detect	0.00389(J)	0.453(U)	0.212(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	8/17/2016	2.01	120	32.2	0.19(J)	6.54	95.8	628	Non-Detect	Non-Detect	0.0434	Non-Detect	Non-Detect	Non-Detect	0.00234(J)	0.381(U)	0.19(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	10/11/2016	1.91	119	34.2	0.15(J)	6.53	101	636	Non-Detect	Non-Detect	0.0514	Non-Detect	Non-Detect	Non-Detect	0.00202(J)	0.139(U)	0.15(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	1/24/2017	1.62	110	38.1	n/a	6.44	129	696	0.000792(J)	Non-Detect	0.0476	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.496	n/a	Non-Detect	0.0591	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	3/14/2017	n/a	n/a	n/a	0.18	6.4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.18	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-6	5/10/2017	1.62	104	41	0.19	6.4	120	687	Non-Detect	Non-Detect	0.0543	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.278(U)	0.19	Non-Detect	0.0519	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	6/28/2017	1.71	98	36	0.18	6.46	100	622	Non-Detect	Non-Detect	0.0402	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.724	0.18	Non-Detect	0.0403(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	8/29/2017	1.7	108	35	0.22	6.47	95	616	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-6	2/27/2018	n/a	n/a	n/a	0.22	6.53	n/a	n/a	Non-Detect	Non-Detect	0.0463	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.214(U)	0.22	Non-Detect	0.0201(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	6/5/2018	1.56	121	32	0.23	6.49	98	582	Non-Detect	Non-Detect	0.051	Non-Detect	Non-Detect	Non-Detect	0.00237(J)	0.176(U)	0.23	Non-Detect	0.0218(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	9/11/2018	n/a	119	36	n/a	6.48	100	616	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-6	11/7/2018	1.6	124	30	0.22	6.48	97	576	Non-Detect	Non-Detect	0.0527	Non-Detect	Non-Detect	Non-Detect	0.00258(J)	1.39	0.22	Non-Detect	0.0141(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	3/26/2019	1.63	148	31.9	0.253	6.54	120	682	0.00141(J)	Non-Detect	0.0682	Non-Detect	Non-Detect	Non-Detect	0.00223(J)	0.904	0.253	Non-Detect	0.0192(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	9/10/2019	1.83	164	27.3	0.227	6.55	140	744	Non-Detect	Non-Detect	0.0789	Non-Detect	Non-Detect	Non-Detect	0.00306(J)	1.14	0.227	Non-Detect	0.0267	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	4/21/2020	1.77	142	37.4	0.218	6.54	153	742	Non-Detect	Non-Detect	0.0728	Non-Detect	Non-Detect	Non-Detect	0.00228(J)	0.679(U)	0.218	Non-Detect	0.0518	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-6	8/19/2020	1.86	162	39.6	0.223	6.49	163	788	Non-Detect	Non-Detect	0.0784	Non-Detect	Non-Detect	Non-Detect	0.00278(J)	0.96	0.223	Non-Detect	0.0197(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-7	2/17/2016	0.503	158	62.7	0.07(J)	6.45	311	892	Non-Detect	Non-Detect	0.0772	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00042(J)
GC-AP-MW-7	4/13/2016	0.478	151	57.8	0.081(J)	6.49	330	1010	Non-Detect	Non-Detect	0.0886	Non-Detect	Non-Detect	Non-Detect	0.00218(J)	<3	0.081(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	5/31/2016	0.452	158	55.6	0.103(J)	6.43	324	1100	Non-Detect	Non-Detect	0.0823	Non-Detect	Non-Detect	Non-Detect	0.00328(J)	0.658	0.103(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	8/17/2016	0.492	152	53.3	0.078(J)	6.43	306	1070	Non-Detect	Non-Detect	0.0789	Non-Detect	Non-Detect	Non-Detect	0.00217(J)	0.936	0.078(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	10/12/2016	0.487	150	51.2	0.041(J)	6.46	296	1040	Non-Detect	Non-Detect	0.0883	Non-Detect	Non-Detect	Non-Detect	0.00225(J)	0.668	0.041(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	1/25/2017	0.529	137	44.8	n/a	6.43	243	972	0.000839(J)	Non-Detect	0.067	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.718	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	3/14/2017	n/a	n/a	n/a	0.07(J)	6.41	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.07(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-7	5/10/2017	0.533	111	44	0.09(J)	6.41	210	740	Non-Detect	Non-Detect	0.0644	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.56	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	6/28/2017	0.501	108	45	0.08(J)	6.46	210	914	Non-Detect	Non-Detect	0.0582	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.526	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	8/29/2017	0.51	113	43	0.09(J)	6.46	220	924	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.09(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-7	2/27/2018	n/a	n/a	n/a	0.08(J)	6.45	n/a	n/a	Non-Detect	Non-Detect	0.0669	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.803	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	6/5/2018	0.605	186	49	0.08(J)	6.36	390	1060	Non-Detect	Non-Detect	0.0672	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.577	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	9/11/2018	n/a	209	52	n/a	6.38	360	1020	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-7	11/7/2018	0.677	175	58	0.08(J)	6.37	390	1050	Non-Detect	Non-Detect	0.0739	Non-Detect	Non-Detect	Non-Detect	0.00277(J)	1.51	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	3/26/2019	0.727	193	71	0.106	6.39	430	1100	Non-Detect	Non-Detect	0.0796	Non-Detect	Non-Detect	Non-Detect	0.0024(J)	0.841	0.106	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	9/10/2019	0.764	188	67	0.086(J)	6.39	409	1100	Non-Detect	Non-Detect	0.0887	Non-Detect	Non-Detect	Non-Detect	0.0034(J)	0.569(U)	0.086(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	4/21/2020	0.793	155	66.2	0.0951(J)	6.39	318	1010	Non-Detect	Non-Detect	0.0762	Non-Detect	Non-Detect	Non-Detect	0.00206(J)	0.549(U)	0.0951(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-7	8/19/2020	0.561	147	123	0.103	6.14	296	1050	Non-Detect	Non-Detect	0.0816	Non-Detect	Non-Detect	Non-Detect	0.0046(J)	1.04	0.103	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-8	2/16/2016	1.54	75.9	67.9	0.08(J)	6.16	49.4	656	Non-Detect	Non-Detect	0.117	Non-Detect	Non-Detect	Non-Detect	0.0129	<3	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	4/13/2016	1.56	74.1	64.1	0.088(J)	6.29	51.7	634	Non-Detect	Non-Detect	0.113	Non-Detect	Non-Detect	Non-Detect	0.0139	<3	0.088(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	6/1/2016	1.49	76.4	66.3	0.109(J)	6.33	51.2	672	Non-Detect	Non-Detect	0.105	Non-Detect	Non-Detect	Non-Detect	0.0139	0.884	0.109(J)	Non-Detect	0.0101(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	8/17/2016	1.57	74.2	56.7	0.089(J)	6.27	42.9	624	Non-Detect	Non-Detect	0.105	Non-Detect	Non-Detect	Non-Detect	0.0138	1.06	0.089(J)	Non-Detect	0.0143(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	10/12/2016	1.65	75.7	56.1	0.048(J)	6.3	39.5	586	Non-Detect	Non-Detect	0.111	Non-Detect	Non-Detect	Non-Detect	0.0138	0.269(U)	0.048(J)	Non-Detect	0.0166(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	1/25/2017	1.89	76.1	53.6	n/a	6.27	31.3	596	0.000833(J)	Non-Detect	0.0963	Non-Detect	Non-Detect	Non-Detect	0.0115	1.12	n/a	Non-Detect	0.0272(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	3/15/2017	n/a	n/a	n/a	0.08(J)	6.27	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.08(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-8	5/10/2017	1.94	78.6	48	0.1	6.25	30	576	Non-Detect	Non-Detect	0.103	Non-Detect	Non-Detect	Non-Detect	0.0125	0.887	0.1	Non-Detect	0.0436(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	6/28/2017	1.72	76.4	49	0.09(J)	6.25	35	612	Non-Detect	Non-Detect	0.0935	Non-Detect	Non-Detect	Non-Detect	0.0137	0.908	0.09(J)	Non-Detect	0.0401(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	8/29/2017	1.63	74.1	52	0.11	6.32	40	640	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.11	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-8	2/27/2018	n/a	n/a	n/a	0.11	6.36	n/a	n/a	Non-Detect	Non-Detect	0.0808	Non-Detect	Non-Detect	Non-Detect	0.00698(J)	n/a	0.11	Non-Detect	0.0309(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	2/28/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.131(U)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-8	6/5/2018	1.73	58	38	0.11	6.3	25	474	Non-Detect	Non-Detect	0.0789	Non-Detect	Non-Detect	Non-Detect	0.00478(J)	0.564	0.11	Non-Detect	0.0286(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	9/11/2018	n/a	64.9	37	n/a	6.36	23	496	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-8	11/7/2018	1.8	68.1	41	0.11	6.31	30	514	Non-Detect	Non-Detect	0.0855	Non-Detect	Non-Detect	Non-Detect	0.00651	0.34(U)	0.11	Non-Detect	0.0371	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	3/26/2019	1.81	72	39.7	0.162	6.32	21.6	546	Non-Detect	Non-Detect	0.0911	Non-Detect	Non-Detect	Non-Detect	0.00445(J)	0.507	0.162	Non-Detect	0.0537	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	9/10/2019	1.82	91	56.1	0.113	6.31	37.4	602	Non-Detect	Non-Detect	0.11	Non-Detect	Non-Detect	Non-Detect	0.0108	0.898	0.113	Non-Detect	0.0928	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	4/21/2020	1.89	84.8	69.5	0.114	6.06	43.3	638	Non-Detect	Non-Detect	0.116	Non-Detect	Non-Detect	Non-Detect	0.0111	1.09	0.114	Non-Detect	0.0582	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-8	8/19/2020	1.94	98.6	70.5	0.116	6.06	44.5	658	Non-Detect	Non-Detect	0.119	Non-Detect	Non-Detect	Non-Detect	0.00975	0.6(U)	0.116	Non-Detect	0.0511	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-9	2/16/2016	0.412	33.9	15.6	0.16(J)	6.5	45.2	226	Non-Detect	0.00507	0.0637	Non-Detect	Non-Detect	Non-Detect	0.00869(J)	<3	0.16(J)	Non-Detect	0.0359(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	4/13/2016	0.376	32.5	14.3	0.15(J)	6.32	43.9	202	Non-Detect	0.00556	0.0552	Non-Detect	Non-Detect	Non-Detect	0.00936(J)	<3	0.15(J)	Non-Detect	0.0276(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	6/1/2016	0.338	33.9	12.6	0.19(J)	6.43	32	224	Non-Detect	0.00625	0.0555	Non-Detect	Non-Detect	Non-Detect	0.00976(J)	0.532	0.19(J)	Non-Detect	0.0296(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	8/17/2016	0.412	50.3	14.4	0.171(J)	6.46	31.9	290	Non-Detect	0.00648	0.0745	Non-Detect	Non-Detect	Non-Detect	0.012	1.07	0.171(J)	Non-Detect	0.0398(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	10/12/2016	0.46	53.3	16.4	0.137(J)	6.53	39.6	315	Non-Detect	0.00772	0.0897	Non-Detect	Non-Detect	Non-Detect	0.0127	1.07	0.137(J)	Non-Detect	0.0433(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	1/25/2017	0.586	59.9	20	n/a	6.45	44	332	0.000847(J)	0.00728	0.0864	Non-Detect	Non-Detect	Non-Detect	0.0109	1.46	n/a	Non-Detect	0.0366(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	3/15/2017	n/a	n/a	n/a	0.15	6.39	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.15	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-9	5/10/2017	0.661	66.5	24	0.17	6.39	32	361	Non-Detect	0.00818	0.105	Non-Detect	Non-Detect	Non-Detect	0.0129	1.21	0.17	Non-Detect	0.039(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	6/28/2017	0.673	69.8	25	0.16	6.4	34	396	Non-Detect	0.00718	0.0897	Non-Detect	Non-Detect	Non-Detect	0.0125	0.821	0.16	Non-Detect	0.0345(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	8/29/2017	0.723	72	25	0.19	6.47	34	402	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.19	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-9	2/27/2018	n/a	n/a	n/a	0.19	6.54	n/a	n/a	Non-Detect	0.00946	0.118	Non-Detect	Non-Detect	Non-Detect	0.013	n/a	0.19	Non-Detect	0.0349(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	2/28/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.232(U)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-9	6/5/2018	0.954	95.1	25	0.19	6.47	22	448	Non-Detect	0.00921	0.111	Non-Detect	Non-Detect	Non-Detect	0.0113	0.722	0.19	Non-Detect	0.0338(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	9/11/2018	n/a	122	26	n/a	6.53	33	462	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-9	11/7/2018	1.11	107	25	0.2	6.49	76	506	Non-Detect	0.0098	0.141	Non-Detect	Non-Detect	Non-Detect	0.0145	0.82	0.2	Non-Detect	0.0616	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	3/26/2019	1.14	132	25.3	0.223	6.47	138	586	Non-Detect	0.00969	0.175	Non-Detect	Non-Detect	Non-Detect	0.0167	1.49	0.223	Non-Detect	0.0931	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	9/10/2019	1.23	116	28	0.178	6.43	115	586	Non-Detect	0.0108	0.206	Non-Detect	Non-Detect	Non-Detect	0.0177	1.75	0.178	Non-Detect	0.128	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	4/21/2020	1.27	111	24.2	0.181	6.25	133	578	Non-Detect	0.0102	0.175	Non-Detect	Non-Detect	Non-Detect	0.0166	1.31	0.181	Non-Detect	0.0693	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-9	8/18/2020	1.24	109	31.4	0.177	6.21	115	542	Non-Detect	0.0108	0.165	Non-Detect	Non-Detect	Non-Detect	0.0164	1.59	0.177	Non-Detect	0.0591	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-10	2/16/2016	1.44	76.3	18.4	0.23(J)	6.29	9.03	312	0.000786(J)	0.0123	0.179	Non-Detect	Non-Detect	Non-Detect	0.0135	<3	0.23(J)	Non-Detect	0.115	Non-Detect	0.0101	Non-Detect	Non-Detect
GC-AP-MW-10	4/13/2016	0.373	30.5	19	0.236(J)	6.21	10.7	324	Non-Detect	0.0143	0.185	Non-Detect	Non-Detect	Non-Detect	0.0155	<3	0.236(J)	Non-Detect	0.135	Non-Detect	0.0127	Non-Detect	Non-Detect
GC-AP-MW-10	5/31/2016	1.26	65.9	19.2	0.255(J)	6.45	10.2	333	Non-Detect	0.0125	0.158	Non-Detect	Non-Detect	Non-Detect	0.0146	0.899	0.255(J)	Non-Detect	0.127	Non-Detect	0.0106	Non-Detect	Non-Detect
GC-AP-MW-10	8/16/2016	1.34	65.6	17.7	0.238(J)	6.58	9.1	327	Non-Detect	0.0128	0.16	Non-Detect	Non-Detect	Non-Detect	0.016	0.82	0.238(J)	Non-Detect	0.124	Non-Detect	0.00991(J)	Non-Detect	Non-Detect
GC-AP-MW-10	10/12/2016	1.34	63.4	16.8	0.198(J)	6.6	7.24	312	Non-Detect	0.0145	0.17	Non-Detect	Non-Detect	Non-Detect	0.0154	0.92	0.198(J)	Non-Detect	0.101	Non-Detect	0.00919(J)	Non-Detect	Non-Detect
GC-AP-MW-10	1/25/2017	1.38	64.2	18.6	n/a	6.47	9.71	286	0.00128(J)	0.0122	0.156	Non-Detect	Non-Detect	Non-Detect	0.0139	1.2	n/a	Non-Detect	0.109	Non-Detect	0.0101	Non-Detect	Non-Detect
GC-AP-MW-10	3/15/2017	n/a	n/a	n/a	0.22	6.54	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-10	5/10/2017	1.23	62.6	22	0.25	6.53	11	326	Non-Detect	0.0135	0.169	Non-Detect	Non-Detect	Non-Detect	0.0144	0.665	0.25	Non-Detect	0.101	Non-Detect	0.00984(J)	Non-Detect	Non-Detect
GC-AP-MW-10	6/28/2017	1.05	60.8	20	0.09(J)	6.49	10	304	Non-Detect	0.0131	0.144	Non-Detect	Non-Detect	Non-Detect	0.0134	0.29(U)	0.09(J)	Non-Detect	0.0954	Non-Detect	0.0102	Non-Detect	Non-Detect
GC-AP-MW-10	8/29/2017	1.17	61.4	20	0.26	6.49	14	348	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.26	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-10	2/27/2018	n/a	n/a	n/a	0.26	6.59	n/a	n/a	Non-Detect	0.0146	0.172	Non-Detect	Non-Detect	Non-Detect	0.0148	n/a	0.26	Non-Detect	0.111	Non-Detect	0.011	Non-Detect	Non-Detect
GC-AP-MW-10	2/28/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.558	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-10	6/5/2018	1.31	65.5	18	0.24	6.52	39	346	Non-Detect	0.0233	0.173	Non-Detect	Non-Detect	Non-Detect	0.0139	0.698	0.24	Non-Detect	0.104	Non-Detect	0.00752(J)	Non-Detect	Non-Detect
GC-AP-MW-10	9/11/2018	n/a	66.1	19	n/a	6.53	29	335	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-10	11/7/2018	1.26	68.5	19	0.25	6.51	45	342	Non-Detect	0.0152	0.171	Non-Detect	Non-Detect	Non-Detect	0.015	0.568	0.25	Non-Detect	0.11	Non-Detect	0.00748(J)	Non-Detect	Non-Detect
GC-AP-MW-10	3/27/2019	1.11	71.8	17.1	0.206	6.53	66.2	347	Non-Detect	0.014	0.167	Non-Detect	Non-Detect	Non-Detect	0.014	0.988	0.206	Non-Detect	0.115	Non-Detect	0.00778(J)	Non-Detect	Non-Detect
GC-AP-MW-10	9/10/2019	1.27	69.3	16.5	0.226	6.33	50.5	351	Non-Detect	0.0132	0.199	Non-Detect	Non-Detect	Non-Detect	0.0191	1.1	0.226	Non-Detect	0.112	Non-Detect	0.00757(J)	Non-Detect	Non-Detect
GC-AP-MW-10	4/22/2020	1.23	62.9	17.6	0.224	6.44	63.2	338	Non-Detect	0.0121	0.186	Non-Detect	Non-Detect	Non-Detect	0.0233	1.11	0.224	Non-Detect	0.123	Non-Detect	0.00747(J)	Non-Detect	Non-Detect
GC-AP-MW-10	8/18/2020	1.37	74.4	21.3	0.203	6.33	58.6	376	Non-Detect	0.0121	0.223	Non-Detect	Non-Detect	Non-Detect	0.0287	1.08	0.203	Non-Detect	0.124	Non-Detect	0.00808(J)	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-11	2/17/2016	0.581	18.6	16.6	0.11(J)	6.04	40.2	158	Non-Detect	0.00437(J)	0.105	Non-Detect	Non-Detect	Non-Detect	0.0504	<3	0.11(J)	Non-Detect	0.0777	Non-Detect	0.00651(J)	Non-Detect	0.000869(J)
GC-AP-MW-11	4/13/2016	0.61	17.8	17	0.119(J)	6.07	33.1	161	Non-Detect	0.00695	0.106	Non-Detect	Non-Detect	Non-Detect	0.0448	<3	0.119(J)	Non-Detect	0.073	Non-Detect	0.00646(J)	Non-Detect	Non-Detect
GC-AP-MW-11	5/31/2016	0.615	17.7	19	0.134(J)	6.03	28.1	173	Non-Detect	0.0063	0.0907	Non-Detect	Non-Detect	Non-Detect	0.0405	0.145(U)	0.134(J)	Non-Detect	0.0721	Non-Detect	0.00546(J)	Non-Detect	Non-Detect
GC-AP-MW-11	8/16/2016	0.554	18.4	17	0.116(J)	6.09	38.5	173	Non-Detect	0.0068	0.0989	Non-Detect	Non-Detect	Non-Detect	0.0464	0.521(U)	0.116(J)	Non-Detect	0.075	Non-Detect	0.00582(J)	Non-Detect	Non-Detect
GC-AP-MW-11	10/12/2016	0.537	17.3	16.2	0.076(J)	6.06	38.3	173	Non-Detect	0.00709	0.113	Non-Detect	Non-Detect	Non-Detect	0.0489	0.669(U)	0.076(J)	Non-Detect	0.0703	Non-Detect	0.00589(J)	Non-Detect	Non-Detect
GC-AP-MW-11	1/25/2017	0.562	16.6	18	n/a	5.94	32	161	0.000896(J)	0.00718	0.103	Non-Detect	Non-Detect	Non-Detect	0.0417	0.789	n/a	Non-Detect	0.0683	Non-Detect	0.00556(J)	Non-Detect	Non-Detect
GC-AP-MW-11	3/14/2017	n/a	n/a	n/a	0.09(J)	6.08	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.09(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-11	5/9/2017	0.528	18	23	0.11	6.07	44	195	Non-Detect	0.00819	0.125	Non-Detect	Non-Detect	Non-Detect	0.0471	0.647	0.11	Non-Detect	0.0646	Non-Detect	0.0058(J)	Non-Detect	Non-Detect
GC-AP-MW-11	6/28/2017	0.313	22.6	24	0.17	6.02	88	227	Non-Detect	0.00664	0.103	Non-Detect	Non-Detect	Non-Detect	0.0664	0.415	0.17	Non-Detect	0.109	Non-Detect	0.00616(J)	Non-Detect	Non-Detect
GC-AP-MW-11	8/29/2017	0.241	23.9	15	0.14	6.19	110	229	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.14	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-11	2/27/2018	n/a	n/a	n/a	0.14	6.21	n/a	n/a	Non-Detect	0.00733	0.0718	Non-Detect	Non-Detect	Non-Detect	0.0438	0.864	0.14	Non-Detect	0.11	Non-Detect	0.00962(J)	Non-Detect	Non-Detect
GC-AP-MW-11	6/5/2018	0.311	25.7	16	0.16	6.27	79	200	Non-Detect	0.00637	0.0643	Non-Detect	Non-Detect	Non-Detect	0.036	0.244(U)	0.16	Non-Detect	0.102	Non-Detect	0.00984(J)	Non-Detect	Non-Detect
GC-AP-MW-11	9/10/2018	n/a	27.2	13	n/a	6.33	80	183	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-11	11/5/2018	0.262	24.1	13	0.15	6.26	81	193	Non-Detect	0.00195(J)	0.0588	Non-Detect	Non-Detect	Non-Detect	0.0171	0.682	0.15	Non-Detect	0.0641	Non-Detect	0.00944(J)	Non-Detect	Non-Detect
GC-AP-MW-11	3/27/2019	0.298	31	14.2	0.104	6.37	83.2	211	Non-Detect	0.00573	0.0678	Non-Detect	Non-Detect	Non-Detect	0.0292	0.564	0.104	Non-Detect	0.119	Non-Detect	0.0151	Non-Detect	Non-Detect
GC-AP-MW-11	9/10/2019	0.141	27.7	8.88	0.191	5.91	87.2	201	Non-Detect	0.00378(J)	0.0651	Non-Detect	Non-Detect	Non-Detect	0.02	0.57	0.191	Non-Detect	0.124	Non-Detect	0.0205	Non-Detect	Non-Detect
GC-AP-MW-11	4/22/2020	0.447	36.7	20.5	0.167	6.26	58.7	249	Non-Detect	0.00616	0.0967	Non-Detect	Non-Detect	Non-Detect	0.0319	0.502(U)	0.167	Non-Detect	0.126	Non-Detect	0.0147	Non-Detect	Non-Detect
GC-AP-MW-11	8/18/2020	0.358	37.6	16.2	0.165	6	81.1	260	Non-Detect	0.00457(J)	0.0866	Non-Detect	Non-Detect	Non-Detect	0.0298	0.457(U)	0.165	Non-Detect	0.109	Non-Detect	0.0146	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-12	2/16/2016	0.273	34.6	10.8	0.16(J)	6.84	119	264	0.000933(J)	Non-Detect	0.0231	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.16(J)	Non-Detect	0.502	Non-Detect	0.107	Non-Detect	Non-Detect
GC-AP-MW-12	4/13/2016	0.276	32.2	8.2	0.163(J)	7.03	122	238	Non-Detect	Non-Detect	0.02	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.163(J)	Non-Detect	0.544	Non-Detect	0.101	Non-Detect	Non-Detect
GC-AP-MW-12	5/31/2016	0.291	28.8	7.74	0.19(J)	6.94	94.3	206	0.000834(J)	Non-Detect	0.0175	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.21(U)	0.19(J)	Non-Detect	0.47	Non-Detect	0.0915	Non-Detect	Non-Detect
GC-AP-MW-12	8/16/2016	0.268	24	12.5	0.219(J)	6.84	67.1	180	0.00118(J)	Non-Detect	0.0182	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.697	0.219(J)	Non-Detect	0.282	Non-Detect	0.127	Non-Detect	Non-Detect
GC-AP-MW-12	10/12/2016	0.252	27.8	15.7	0.163(J)	6.75	94.1	223	0.000899(J)	Non-Detect	0.0221	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.421(U)	0.163(J)	Non-Detect	0.217	Non-Detect	0.11	Non-Detect	Non-Detect
GC-AP-MW-12	1/25/2017	0.167	33.7	24.4	n/a	6.87	101	271	0.00136(J)	Non-Detect	0.0187	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.265(U)	n/a	Non-Detect	0.108	Non-Detect	0.0741	Non-Detect	Non-Detect
GC-AP-MW-12	3/15/2017	n/a	n/a	n/a	0.13	6.9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.13	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-12	5/9/2017	0.32	35.5	15	0.15	6.85	91	236	Non-Detect	Non-Detect	0.0232	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.132(U)	0.15	Non-Detect	0.132	Non-Detect	0.0883	Non-Detect	Non-Detect
GC-AP-MW-12	6/28/2017	0.231	28	12	0.17	6.85	71	198	0.000683(J)	Non-Detect	0.0178	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.493	0.17	Non-Detect	0.126	Non-Detect	0.109	Non-Detect	Non-Detect
GC-AP-MW-12	8/29/2017	0.191	26.4	10	0.22	6.86	80	187	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-12	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.89	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-12	2/28/2018	n/a	n/a	n/a	0.19	6.94	n/a	n/a	0.000656(J)	Non-Detect	0.0197	Non-Detect	Non-Detect	Non-Detect	Non-Detect	n/a	0.19	Non-Detect	0.0786	Non-Detect	0.0903	Non-Detect	Non-Detect
GC-AP-MW-12	6/6/2018	0.26	30.1	11	0.19	6.99	62	199	Non-Detect	Non-Detect	0.0204	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.114(U)	0.19	Non-Detect	0.067	Non-Detect	0.0757	Non-Detect	Non-Detect
GC-AP-MW-12	9/11/2018	n/a	27.4	12	n/a	6.87	63	184	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-12	11/5/2018	0.127	28.8	17	0.2	6.81	74	210	Non-Detect	Non-Detect	0.0255	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.048(U)	0.2	Non-Detect	0.0912	Non-Detect	0.0906	Non-Detect	Non-Detect
GC-AP-MW-12	3/26/2019	0.111	33.7	14.5	0.196	6.95	92.3	230	0.00121(J)	Non-Detect	0.0218	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.381	0.196	Non-Detect	0.0532	Non-Detect	0.11	Non-Detect	Non-Detect
GC-AP-MW-12	9/10/2019	0.153	30.5	10.9	0.26	6.69	89.3	218	Non-Detect	Non-Detect	0.0233	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.434(U)	0.26	Non-Detect	0.0598	Non-Detect	0.134	Non-Detect	Non-Detect
GC-AP-MW-12	4/21/2020	0.872	51	9.49	0.198	6.96	121	291	Non-Detect	Non-Detect	0.0325	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.0655(U)	0.198	Non-Detect	0.166	Non-Detect	0.0947	Non-Detect	Non-Detect
GC-AP-MW-12	8/18/2020	0.748	42.9	6.46	0.223	6.98	89	250	Non-Detect	Non-Detect	0.021	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.135(U)	0.223	Non-Detect	0.0892	Non-Detect	0.0938	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-13	2/16/2016	0.26	29.8	6.52	0.14(J)	6.4	113	242	0.000972(J)	0.0141	0.113	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.14(J)	Non-Detect	0.51	Non-Detect	0.0769	0.0227	Non-Detect
GC-AP-MW-13	4/12/2016	0.26	23.3	4.47	0.119(J)	6.41	86.7	176	Non-Detect	0.0144	0.0912	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.119(J)	Non-Detect	0.508	Non-Detect	0.0442	0.0701	Non-Detect
GC-AP-MW-13	5/31/2016	0.318	25.9	10.8	0.132(J)	6.22	83.1	189	0.000869(J)	0.00984	0.0963	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.313(U)	0.132(J)	Non-Detect	0.454	Non-Detect	0.0481	0.0129	0.000212(J)
GC-AP-MW-13	8/16/2016	0.322	25.5	16.6	0.177(J)	6.41	59.3	192	0.00128(J)	0.0126	0.0878	Non-Detect	Non-Detect	0.00381(J)	Non-Detect	0.435(U)	0.177(J)	Non-Detect	0.371	Non-Detect	0.0956	0.0208	0.000449(J)
GC-AP-MW-13	10/12/2016	0.244	29.5	18.5	0.149(J)	6.42	99.3	n/a	0.00114(J)	0.0117	0.112	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.0137(U)	0.149(J)	Non-Detect	0.282	Non-Detect	0.114	0.00431(J)	0.000532(J)
GC-AP-MW-13	11/1/2016	n/a	n/a	n/a	n/a	6.55	n/a	244	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	1/25/2017	0.188	33.6	22	n/a	6.76	113	274	0.00384	0.00316(J)	0.114	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.309(U)	n/a	Non-Detect	0.0904	Non-Detect	0.078	0.00779(J)	0.000309(J)
GC-AP-MW-13	3/15/2017	n/a	n/a	n/a	0.16	6.82	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.16	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	5/9/2017	0.281	30.4	10	0.18	6.7	74	191	0.00323	0.00393(J)	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.42	0.18	Non-Detect	0.144	Non-Detect	0.0484	0.00905(J)	0.00021(J)
GC-AP-MW-13	6/28/2017	0.153	26	9.4	0.18	6.58	71	176	0.00406	0.00406(J)	0.0874	Non-Detect	Non-Detect	0.00219(J)	Non-Detect	0.373	0.18	Non-Detect	0.146	Non-Detect	0.0598	0.0072(J)	0.000244(J)
GC-AP-MW-13	8/29/2017	0.112	22.3	9.3	0.19	6.4	72	163	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.19	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.25	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	2/28/2018	n/a	n/a	n/a	0.14	6.72	n/a	n/a	0.00199(J)	0.00278(J)	0.0984	Non-Detect	Non-Detect	Non-Detect	Non-Detect	n/a	0.14	Non-Detect	0.0738	Non-Detect	0.0346	0.00826(J)	Non-Detect
GC-AP-MW-13	6/6/2018	0.244	23.7	6.1	0.13	6.57	48	138	0.00261(J)	0.00352(J)	0.0951	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.258(U)	0.13	Non-Detect	0.148	Non-Detect	0.0253	0.00496(J)	0.000239(J)
GC-AP-MW-13	9/11/2018	n/a	26.8	14	n/a	6.64	62	185	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-13	11/5/2018	0.104	29.4	18	0.15	6.69	81	208	0.00275(J)	0.00497(J)	0.113	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.441(U)	0.15	Non-Detect	0.0914	Non-Detect	0.044	Non-Detect	0.000623(J)
GC-AP-MW-13	3/26/2019	0.213	34.1	4.7	0.0775(J)	6.54	92.4	198	0.00219(J)	0.00251(J)	0.109	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.471	0.0775(J)	Non-Detect	0.123	Non-Detect	0.0262	0.0239	0.000215(J)
GC-AP-MW-13	9/11/2019	0.535	53.9	12.3	0.118	6.22	128	316	0.00261(J)	0.00664	0.275	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.557(U)	0.118	Non-Detect	0.246	Non-Detect	0.0226	Non-Detect	0.00214
GC-AP-MW-13	4/20/2020	0.642	40.3	4.7	0.0844(J)	6.68	76.5	201	0.00338	0.00181(J)	0.104	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.256(U)	0.0844(J)	Non-Detect	0.201	Non-Detect	0.0924	0.0125	0.000433(J)
GC-AP-MW-13	8/18/2020	0.501	95.3	8.24	0.108	6.76	203	444	0.00388	0.00176(J)	0.199	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.568(U)	0.108	Non-Detect	0.42	Non-Detect	0.145	0.00416(J)	0.00114

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UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-14	2/16/2016	0.739	44.4	16.4	0.13(J)	6.21	108	340	Non-Detect	0.0202	0.0447	Non-Detect	Non-Detect	Non-Detect	0.00732(J)	<3	0.13(J)	Non-Detect	0.632	Non-Detect	0.00839(J)	Non-Detect	Non-Detect
GC-AP-MW-14	4/12/2016	0.733	43.2	15.9	0.137(J)	6.37	114	298	Non-Detect	0.0214	0.043	Non-Detect	Non-Detect	Non-Detect	0.00785(J)	<3	0.137(J)	Non-Detect	0.615	Non-Detect	0.00918(J)	Non-Detect	Non-Detect
GC-AP-MW-14	5/31/2016	0.603	43	13.6	0.149(J)	6.42	114	309	0.00062(J)	0.0156	0.0383	Non-Detect	Non-Detect	Non-Detect	0.00712(J)	0.624	0.149(J)	Non-Detect	0.613	Non-Detect	0.00877(J)	Non-Detect	Non-Detect
GC-AP-MW-14	8/17/2016	0.509	35.9	12.8	0.147(J)	6.42	85.4	269	Non-Detect	0.0153	0.0332	Non-Detect	Non-Detect	Non-Detect	0.00545(J)	0.49(U)	0.147(J)	Non-Detect	0.444	Non-Detect	0.0236	Non-Detect	Non-Detect
GC-AP-MW-14	10/12/2016	0.569	31.1	16.3	0.115(J)	6.38	53.5	n/a	Non-Detect	0.0254	0.0454	Non-Detect	Non-Detect	Non-Detect	0.00497(J)	-0.0237(U)	0.115(J)	Non-Detect	0.387	Non-Detect	0.0289	Non-Detect	Non-Detect
GC-AP-MW-14	11/1/2016	n/a	n/a	n/a	n/a	6.33	n/a	252	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-14	1/25/2017	0.671	42.7	16.4	n/a	6.37	75.4	259	0.00106(J)	0.0194	0.0567	Non-Detect	Non-Detect	Non-Detect	0.00454(J)	0.455(U)	n/a	Non-Detect	0.516	Non-Detect	0.00501(J)	Non-Detect	Non-Detect
GC-AP-MW-14	3/14/2017	n/a	n/a	n/a	0.11	6.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.11	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-14	5/9/2017	0.622	48.1	19	0.14	6.43	84	285	Non-Detect	0.0361	0.069	Non-Detect	Non-Detect	Non-Detect	0.00488(J)	0.451	0.14	Non-Detect	0.526	Non-Detect	0.0108	Non-Detect	Non-Detect
GC-AP-MW-14	6/28/2017	0.695	55	17	0.13	6.4	120	348	Non-Detect	0.022	0.0764	Non-Detect	Non-Detect	Non-Detect	0.00805(J)	0.63	0.13	Non-Detect	0.626	Non-Detect	0.00752(J)	Non-Detect	Non-Detect
GC-AP-MW-14	8/29/2017	1	83.6	17	0.14	6.32	180	528	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.14	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-14	2/27/2018	n/a	n/a	n/a	0.13	6.28	n/a	n/a	Non-Detect	0.0265	0.0908	Non-Detect	Non-Detect	Non-Detect	0.016	1.59	0.13	Non-Detect	0.562	Non-Detect	0.0121	Non-Detect	Non-Detect
GC-AP-MW-14	6/6/2018	1.01	167	14	0.15	6.25	450	932	Non-Detect	0.0372	0.064	Non-Detect	Non-Detect	Non-Detect	0.024	0.943	0.15	Non-Detect	1.06	Non-Detect	0.0101	Non-Detect	Non-Detect
GC-AP-MW-14	9/12/2018	n/a	109	14	n/a	6.42	200	180	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-14	11/7/2018	0.908	105	15	0.19	6.42	180	528	Non-Detect	0.0289	0.0575	Non-Detect	Non-Detect	Non-Detect	0.0124	0.888	0.19	Non-Detect	0.604	Non-Detect	0.0155	Non-Detect	Non-Detect
GC-AP-MW-14	3/27/2019	1.33	162	14.9	0.248	6.41	335	834	Non-Detect	0.0264	0.0768	Non-Detect	Non-Detect	Non-Detect	0.0303	1.1	0.248	Non-Detect	1.11	Non-Detect	0.0167	Non-Detect	Non-Detect
GC-AP-MW-14	9/10/2019	1.49	125	13.5	0.209	6.11	193	658	Non-Detect	0.0263	0.0685	Non-Detect	Non-Detect	Non-Detect	0.0278	0.852	0.209	Non-Detect	0.765	Non-Detect	0.0125	Non-Detect	Non-Detect
GC-AP-MW-14	4/21/2020	1.55	113	14.8	0.254	6.31	168	628	Non-Detect	0.0178	0.102	Non-Detect	Non-Detect	Non-Detect	0.0339	0.653	0.254	Non-Detect	0.672	Non-Detect	0.0141	Non-Detect	Non-Detect
GC-AP-MW-14	8/11/2020	1.44	118	12.7	0.278	6.02	242	688	Non-Detect	0.0207	0.0806	Non-Detect	Non-Detect	Non-Detect	0.0373	1.64	0.278	Non-Detect	0.712	Non-Detect	0.0117	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-15	2/17/2016	0.454	47.7	11.8	0.09(J)	6.02	187	408	Non-Detect	Non-Detect	0.022	Non-Detect	Non-Detect	Non-Detect	0.0169	<3	0.09(J)	Non-Detect	0.806	Non-Detect	Non-Detect	Non-Detect	0.000697(J)
GC-AP-MW-15	4/12/2016	0.444	44.4	12.6	0.107(J)	6.17	188	334	Non-Detect	Non-Detect	0.0242	Non-Detect	Non-Detect	Non-Detect	0.0158	<3	0.107(J)	Non-Detect	0.719	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	5/31/2016	0.424	45.3	12.9	0.145(J)	6.15	183	351	Non-Detect	Non-Detect	0.0224	Non-Detect	Non-Detect	Non-Detect	0.014	0.41(U)	0.145(J)	Non-Detect	0.735	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	8/16/2016	0.438	49.4	10.2	0.135(J)	6.21	196	367	Non-Detect	Non-Detect	0.0243	Non-Detect	Non-Detect	Non-Detect	0.0153	0.399(U)	0.135(J)	Non-Detect	0.699	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	10/11/2016	0.456	52.7	10.2	0.096(J)	6.14	216	n/a	Non-Detect	Non-Detect	0.0291	Non-Detect	Non-Detect	Non-Detect	0.0162	0.00389(U)	0.096(J)	Non-Detect	0.727	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	11/1/2016	n/a	n/a	n/a	n/a	6.15	n/a	372	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-15	1/24/2017	0.458	49.4	11.2	n/a	6.11	183	354	0.00111(J)	Non-Detect	0.0223	Non-Detect	Non-Detect	Non-Detect	0.0132	0.35(U)	n/a	Non-Detect	0.689	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	3/14/2017	n/a	n/a	n/a	0.09(J)	6.09	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.09(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-15	5/10/2017	0.486	47.4	14	0.11	6.11	160	332	Non-Detect	Non-Detect	0.0281	Non-Detect	Non-Detect	Non-Detect	0.014	0.0662(U)	0.11	Non-Detect	0.603	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	6/27/2017	0.454	44.9	14	0.1	6.09	150	331	Non-Detect	Non-Detect	0.0223	Non-Detect	Non-Detect	Non-Detect	0.0163	0.793	0.1	Non-Detect	0.558	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	8/30/2017	0.441	44.4	14	0.13	6.1	160	317	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.13	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-15	2/28/2018	n/a	n/a	n/a	0.09(J)	6.11	n/a	n/a	Non-Detect	Non-Detect	0.0271	Non-Detect	Non-Detect	Non-Detect	0.0157	3.99	0.09(J)	Non-Detect	0.571	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	6/5/2018	0.543	45.1	13	0.13	6.05	160	318	Non-Detect	Non-Detect	0.0269	Non-Detect	Non-Detect	Non-Detect	0.0148	-0.365(U)	0.13	Non-Detect	0.492	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	9/11/2018	n/a	48.5	14	n/a	6.18	140	321	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-15	11/6/2018	0.614	49.2	14	0.12	6.09	160	331	Non-Detect	Non-Detect	0.0271	Non-Detect	Non-Detect	Non-Detect	0.0158	0.391(U)	0.12	Non-Detect	0.547	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	3/26/2019	0.697	54	13	0.113	6.1	157	334	Non-Detect	Non-Detect	0.0282	Non-Detect	Non-Detect	Non-Detect	0.0184	0.535	0.113	Non-Detect	0.57	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	9/10/2019	0.73	57.2	12.8	0.122	5.82	150	358	Non-Detect	Non-Detect	0.0348	Non-Detect	Non-Detect	Non-Detect	0.0201	0.3(U)	0.122	Non-Detect	0.6	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	4/20/2020	0.791	61	12	0.14	6.16	142	369	Non-Detect	Non-Detect	0.0338	Non-Detect	Non-Detect	Non-Detect	0.0189	0.693	0.14	Non-Detect	0.604	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-15	8/12/2020	0.813	72.2	11.4	0.147	6.1	160	401	Non-Detect	Non-Detect	0.0352	Non-Detect	Non-Detect	Non-Detect	0.0184	0.983	0.147	Non-Detect	0.594	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-16	2/17/2016	1.47	57	12.5	0.2(J)	6.18	87.4	310	Non-Detect	0.0788	0.0368	Non-Detect	Non-Detect	Non-Detect	0.016	<3	0.2(J)	Non-Detect	0.626	Non-Detect	Non-Detect	Non-Detect	0.000687(J)
GC-AP-MW-16	4/13/2016	1.48	62.5	13.6	0.173(J)	6.28	92.7	372	Non-Detect	0.0759	0.044	Non-Detect	Non-Detect	Non-Detect	0.0139	<3	0.173(J)	Non-Detect	0.594	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-16	6/1/2016	1.22	54.4	14.2	0.253(J)	6.36	111	360	Non-Detect	0.292	0.0357	Non-Detect	Non-Detect	Non-Detect	0.0117	0.515	0.253(J)	Non-Detect	0.556	Non-Detect	Non-Detect	Non-Detect	0.000272(J)
GC-AP-MW-16	8/15/2016	1.31	56.2	13.6	0.224(J)	6.37	98.3	366	Non-Detect	0.105	0.0377	Non-Detect	Non-Detect	Non-Detect	0.0133	0.843	0.224(J)	Non-Detect	0.557	Non-Detect	Non-Detect	Non-Detect	0.000278(J)
GC-AP-MW-16	10/12/2016	1.37	56.6	13.8	0.187(J)	6.32	99.3	n/a	Non-Detect	0.0831	0.0431	Non-Detect	Non-Detect	Non-Detect	0.0147	0.397(U)	0.187(J)	Non-Detect	0.589	Non-Detect	Non-Detect	Non-Detect	0.000322(J)
GC-AP-MW-16	11/2/2016	n/a	n/a	n/a	n/a	6.33	n/a	374	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-16	1/24/2017	1.38	59.1	14.2	n/a	6.29	85.4	380	0.000935(J)	0.0472	0.0418	Non-Detect	Non-Detect	Non-Detect	0.0122	0.269(U)	n/a	Non-Detect	0.522	Non-Detect	Non-Detect	Non-Detect	0.000265(J)
GC-AP-MW-16	3/14/2017	n/a	n/a	n/a	0.23	6.27	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.23	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-16	5/10/2017	1.41	62.5	18	0.23	6.3	74	381	Non-Detect	0.0814	0.0449	Non-Detect	Non-Detect	Non-Detect	0.0133	0.454	0.23	Non-Detect	0.552	Non-Detect	Non-Detect	Non-Detect	0.000327(J)
GC-AP-MW-16	6/27/2017	1.43	63.6	17	0.22	6.28	75	404	Non-Detect	0.0693	0.042	Non-Detect	Non-Detect	Non-Detect	0.0141	1.25	0.22	Non-Detect	0.523	Non-Detect	Non-Detect	Non-Detect	0.000301(J)
GC-AP-MW-16	8/30/2017	1.36	65.7	16	0.28	6.34	87	420	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.28	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-16	2/28/2018	n/a	n/a	n/a	0.23	6.33	n/a	n/a	Non-Detect	0.0852	0.0595	Non-Detect	Non-Detect	Non-Detect	0.014	1.17	0.23	Non-Detect	0.544	Non-Detect	Non-Detect	Non-Detect	0.000321(J)
GC-AP-MW-16	6/5/2018	1.36	66.8	15	0.28	6.29	87	408	Non-Detect	0.0648	0.0471	Non-Detect	Non-Detect	Non-Detect	0.0114	0.337(U)	0.28	Non-Detect	0.49	Non-Detect	Non-Detect	Non-Detect	0.000288(J)
GC-AP-MW-16	9/12/2018	n/a	76.3	17	n/a	6.36	63	415	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-16	11/6/2018	1.47	77.4	15	0.24	6.37	97	447	Non-Detect	0.0701	0.0574	Non-Detect	Non-Detect	Non-Detect	0.0141	0.661	0.24	Non-Detect	0.54	Non-Detect	Non-Detect	Non-Detect	0.000354(J)
GC-AP-MW-16	3/26/2019	1.38	90	9.27	0.316	6.34	123	481	Non-Detect	0.0952	0.0626	Non-Detect	Non-Detect	Non-Detect	0.0177	1.18	0.316	Non-Detect	0.558	Non-Detect	Non-Detect	Non-Detect	0.00041(J)
GC-AP-MW-16	9/10/2019	1.69	86.3	12.7	0.267	6.35	68	453	Non-Detect	0.0786	0.0754	Non-Detect	Non-Detect	Non-Detect	0.0162	0.516(U)	0.267	Non-Detect	0.581	Non-Detect	Non-Detect	Non-Detect	0.000396(J)
GC-AP-MW-16	4/20/2020	1.83	90.8	12.1	0.245	6.43	49.6	461	Non-Detect	0.105	0.0921	Non-Detect	Non-Detect	Non-Detect	0.0146	0.493(U)	0.245	Non-Detect	0.62	Non-Detect	Non-Detect	Non-Detect	0.00032(J)
GC-AP-MW-16	8/11/2020	1.93	101	12.1	0.294	6.7	55	482	Non-Detect	0.0698	0.0948	Non-Detect	Non-Detect	Non-Detect	0.0148	1.48	0.294	Non-Detect	0.599	Non-Detect	Non-Detect	Non-Detect	0.000329(J)

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-17	2/17/2016	1.66	30.7	14.6	0.53	6.32	72.3	328	Non-Detect	0.177	0.0402	Non-Detect	Non-Detect	Non-Detect	0.0101	<3	0.53	Non-Detect	0.612	Non-Detect	0.066	Non-Detect	0.00067(J)
GC-AP-MW-17	4/13/2016	1.64	39.5	14.9	0.437	6.44	123	373	Non-Detect	0.271	0.0637	Non-Detect	Non-Detect	Non-Detect	0.0109	<3	0.437	Non-Detect	0.694	Non-Detect	0.0835	Non-Detect	Non-Detect
GC-AP-MW-17	6/1/2016	1.66	47.7	15.9	0.376	6.24	144	442	Non-Detect	0.251	0.0786	Non-Detect	Non-Detect	Non-Detect	0.0134	0.972	0.376	Non-Detect	0.675	Non-Detect	0.0835	Non-Detect	Non-Detect
GC-AP-MW-17	8/15/2016	1.83	45.6	19.5	0.362	6.34	50.1	392	Non-Detect	0.253	0.0634	Non-Detect	Non-Detect	Non-Detect	0.0134	1.43	0.362	Non-Detect	0.571	Non-Detect	0.0838	Non-Detect	Non-Detect
GC-AP-MW-17	10/12/2016	2.12	57.6	18.5	0.377	6.42	72.6	n/a	Non-Detect	0.243	0.0995	Non-Detect	Non-Detect	Non-Detect	0.0204	0.246(U)	0.377	Non-Detect	0.622	Non-Detect	0.111	Non-Detect	Non-Detect
GC-AP-MW-17	11/2/2016	n/a	n/a	n/a	n/a	6.48	n/a	469	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-17	1/24/2017	1.94	69.4	19	n/a	6.53	63.4	464	0.000997(J)	0.363	0.117	Non-Detect	Non-Detect	Non-Detect	0.0157	0.918	n/a	Non-Detect	0.752	Non-Detect	0.111	Non-Detect	Non-Detect
GC-AP-MW-17	3/14/2017	n/a	n/a	n/a	0.41	6.43	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.41	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-17	5/10/2017	1.99	66.2	24	0.36	6.33	82	492	Non-Detect	0.499	0.158	Non-Detect	Non-Detect	Non-Detect	0.0179	1.27	0.36	Non-Detect	0.622	Non-Detect	0.0566	Non-Detect	Non-Detect
GC-AP-MW-17	6/27/2017	2.18	63.8	24	0.38	6.38	44	516	Non-Detect	0.489	0.139	Non-Detect	Non-Detect	Non-Detect	0.0166	1.51	0.38	Non-Detect	0.597	Non-Detect	0.0702	Non-Detect	Non-Detect
GC-AP-MW-17	8/30/2017	1.71	75.1	18	0.38	6.31	230	646	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.38	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-17	2/28/2018	n/a	n/a	n/a	0.58	6.57	n/a	n/a	Non-Detect	0.532	0.199	Non-Detect	Non-Detect	Non-Detect	0.0251	1.05	0.58	Non-Detect	0.73	Non-Detect	0.0957	Non-Detect	Non-Detect
GC-AP-MW-17	6/5/2018	1.76	77.4	15	0.41	6.21	230	644	Non-Detect	0.382	0.149	Non-Detect	Non-Detect	Non-Detect	0.0456	1.07	0.41	Non-Detect	0.531	Non-Detect	0.0363	Non-Detect	Non-Detect
GC-AP-MW-17	9/12/2018	n/a	58.9	23	n/a	6.43	33	476	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-17	11/6/2018	1.74	81.6	11	0.45	6.47	220	634	Non-Detect	0.299	0.202	Non-Detect	Non-Detect	Non-Detect	0.0321	1.05	0.45	Non-Detect	0.583	Non-Detect	0.0418	Non-Detect	Non-Detect
GC-AP-MW-17	3/26/2019	1.74	84.7	9.52	0.573	6.52	161	516	0.000897(J)	0.32	0.242	Non-Detect	Non-Detect	Non-Detect	0.0192	1.57	0.573	Non-Detect	0.595	Non-Detect	0.062	Non-Detect	Non-Detect
GC-AP-MW-17	9/9/2019	2.33	66.4	15.4	0.477	5.84	57.3	500	Non-Detect	0.356	0.319	Non-Detect	Non-Detect	Non-Detect	0.0121	1.29	0.477	Non-Detect	0.571	Non-Detect	0.0681	Non-Detect	Non-Detect
GC-AP-MW-17	4/21/2020	1.97	74.4	11.1	0.565	6.61	78	490	Non-Detect	0.689	0.306	Non-Detect	Non-Detect	Non-Detect	0.0158	0.859	0.565	Non-Detect	0.629	Non-Detect	0.0694	Non-Detect	Non-Detect
GC-AP-MW-17	8/11/2020	2.03	73	15.4	0.515	6.71	46.7	522	Non-Detect	0.581	0.29	Non-Detect	Non-Detect	Non-Detect	0.0122	2.14	0.515	Non-Detect	0.552	Non-Detect	0.0506	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-18	2/17/2016	1.94	89.6	22.3	0.15(J)	6.23	60.2	464	Non-Detect	0.133	0.12	Non-Detect	Non-Detect	Non-Detect	0.0227	<3	0.15(J)	Non-Detect	0.67	Non-Detect	Non-Detect	Non-Detect	0.000404(J)
GC-AP-MW-18	4/12/2016	2.03	96.2	22.1	0.168(J)	6.3	68.2	491	Non-Detect	0.134	0.131	Non-Detect	Non-Detect	Non-Detect	0.0209	<3	0.168(J)	Non-Detect	0.655	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	6/1/2016	1.74	90.2	22	0.178(J)	6.24	61.4	468	Non-Detect	0.11	0.114	Non-Detect	Non-Detect	Non-Detect	0.02	1.55	0.178(J)	Non-Detect	0.666	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	8/15/2016	1.66	84.4	22.4	0.149(J)	6.25	56	454	Non-Detect	0.116	0.113	Non-Detect	Non-Detect	Non-Detect	0.0225	1.85	0.149(J)	Non-Detect	0.558	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	10/12/2016	1.77	82.9	22.1	0.12(J)	6.26	36.6	n/a	Non-Detect	0.109	0.126	Non-Detect	Non-Detect	Non-Detect	0.0206	0.481	0.12(J)	Non-Detect	0.56	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	11/2/2016	n/a	n/a	n/a	n/a	6.3	n/a	422	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	1/24/2017	1.49	76.4	23.2	n/a	6.3	12.3	408	0.000984(J)	0.0825	0.126	Non-Detect	Non-Detect	Non-Detect	0.015	0.889	n/a	Non-Detect	0.374	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	3/14/2017	n/a	n/a	n/a	0.17	6.31	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.17	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	5/10/2017	1.65	77.4	26	0.17	6.34	10	358	Non-Detect	0.0776	0.138	Non-Detect	Non-Detect	Non-Detect	0.0141	1.01	0.17	Non-Detect	0.443	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	6/27/2017	1.66	75.4	25	0.18	6.32	9.7	382	Non-Detect	0.0672	0.12	Non-Detect	Non-Detect	Non-Detect	0.0144	1.17	0.18	Non-Detect	0.451	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	8/30/2017	1.53	78	25	0.21	6.38	7.8	392	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.21	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.702	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	2/28/2018	n/a	n/a	n/a	0.17	6.31	n/a	n/a	Non-Detect	0.063	0.143	Non-Detect	Non-Detect	Non-Detect	0.0136	n/a	0.17	Non-Detect	0.343	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	6/5/2018	1.36	66.3	25	0.17	6.16	13	352	Non-Detect	0.0661	0.128	Non-Detect	Non-Detect	Non-Detect	0.0138	0.999	0.17	Non-Detect	0.353	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	9/12/2018	n/a	67.8	23	n/a	6.29	28	339	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-18	11/6/2018	1.48	72.7	26	0.17	6.31	11	368	Non-Detect	0.0509	0.109	Non-Detect	Non-Detect	Non-Detect	0.0158	0.913	0.17	Non-Detect	0.369	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	3/26/2019	1.63	91.5	25.4	0.192	6.3	21.3	406	Non-Detect	0.0477	0.117	Non-Detect	Non-Detect	Non-Detect	0.0161	1.35	0.192	Non-Detect	0.378	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	9/9/2019	1.73	83.2	25.6	0.157	6.28	17.8	406	Non-Detect	0.0498	0.101	Non-Detect	Non-Detect	Non-Detect	0.0174	1.08	0.157	Non-Detect	0.408	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	4/21/2020	1.51	81.8	26.3	0.171	6.31	19.2	429	Non-Detect	0.0478	0.0926	Non-Detect	Non-Detect	Non-Detect	0.0173	0.888	0.171	Non-Detect	0.386	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-18	8/12/2020	1.53	85.9	24.5	0.198	6.62	13.8	390	Non-Detect	0.0485	0.0815	Non-Detect	Non-Detect	Non-Detect	0.0152	1.17	0.198	Non-Detect	0.326	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-21	2/16/2016	0.286	40.4	9.95	0.18(J)	7.15	125	264	Non-Detect	Non-Detect	0.0379	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.18(J)	Non-Detect	0.513	Non-Detect	0.0433	Non-Detect	Non-Detect
GC-AP-MW-21	4/13/2016	0.26	32.2	7.33	0.191(J)	7.1	119	226	Non-Detect	Non-Detect	0.0291	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.191(J)	Non-Detect	0.532	Non-Detect	0.0567	Non-Detect	Non-Detect
GC-AP-MW-21	6/1/2016	0.283	29.3	6.97	0.201(J)	6.76	99.2	231	Non-Detect	Non-Detect	0.0254	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.126(U)	0.201(J)	Non-Detect	0.513	Non-Detect	0.0565	Non-Detect	Non-Detect
GC-AP-MW-21	8/16/2016	0.292	25.4	12	0.218(J)	6.99	71.9	181	Non-Detect	Non-Detect	0.0385	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.477	0.218(J)	Non-Detect	0.301	Non-Detect	0.0791	Non-Detect	Non-Detect
GC-AP-MW-21	10/12/2016	0.254	30.7	15.4	0.171(J)	6.89	93.9	225	Non-Detect	Non-Detect	0.0486	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.137(U)	0.171(J)	Non-Detect	0.22	Non-Detect	0.0767	Non-Detect	Non-Detect
GC-AP-MW-21	1/25/2017	0.133	36.8	24.7	n/a	6.84	103	277	0.00107(J)	Non-Detect	0.0371	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.55	n/a	Non-Detect	0.107	Non-Detect	0.0398	Non-Detect	Non-Detect
GC-AP-MW-21	3/15/2017	n/a	n/a	n/a	0.16	6.78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.16	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-21	5/9/2017	0.304	36.1	17	0.17	6.83	100	255	Non-Detect	Non-Detect	0.0454	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.182(U)	0.17	Non-Detect	0.113	Non-Detect	0.0467	Non-Detect	Non-Detect
GC-AP-MW-21	6/28/2017	0.243	26.9	11	0.18	6.98	69	175	Non-Detect	Non-Detect	0.0352	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.228(U)	0.18	Non-Detect	0.0962	Non-Detect	0.0833	Non-Detect	Non-Detect
GC-AP-MW-21	8/29/2017	0.249	29.4	12	0.23	6.8	77	218	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.23	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-21	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.293(U)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-21	2/28/2018	n/a	n/a	n/a	0.2	6.87	n/a	n/a	Non-Detect	Non-Detect	0.0376	Non-Detect	Non-Detect	Non-Detect	Non-Detect	n/a	0.2	Non-Detect	0.0594	Non-Detect	0.0643	Non-Detect	Non-Detect
GC-AP-MW-21	6/6/2018	0.245	30.2	9.7	0.19	6.94	81	207	Non-Detect	Non-Detect	0.0355	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.056(U)	0.19	Non-Detect	0.0469(J)	Non-Detect	0.0579	Non-Detect	Non-Detect
GC-AP-MW-21	9/10/2018	n/a	28.8	12	n/a	6.74	64	197	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-21	11/5/2018	0.151	29.7	16	0.22	6.66	68	200	Non-Detect	Non-Detect	0.0509	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.637	0.22	Non-Detect	0.0902	Non-Detect	0.0548	Non-Detect	Non-Detect
GC-AP-MW-21	3/26/2019	0.0834(J)	32.4	17.2	0.219	6.84	92	218	0.000964(J)	Non-Detect	0.047	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.405	0.219	Non-Detect	0.0531	Non-Detect	0.071	Non-Detect	Non-Detect
GC-AP-MW-21	9/10/2019	0.16	28.4	11	0.194	6.58	63.1	198	Non-Detect	Non-Detect	0.0568	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0889(U)	0.194	Non-Detect	0.0862	Non-Detect	0.0609	Non-Detect	Non-Detect
GC-AP-MW-21	4/21/2020	0.586	43.1	10.1	0.173	6.81	99	265	Non-Detect	Non-Detect	0.0763	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.271	0.173	Non-Detect	0.0782	Non-Detect	0.0562	Non-Detect	Non-Detect
GC-AP-MW-21	8/18/2020	0.211	25.5	5.54	0.18	6.31	63.4	179	Non-Detect	Non-Detect	0.0517	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.0105(U)	0.18	Non-Detect	0.0718	Non-Detect	0.0505	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-23	2/17/2016	0.0271(J)	38.7	1.54	0.08(J)	6.8	14.7	142	Non-Detect	Non-Detect	0.0285	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.000364(J)
GC-AP-MW-23	4/12/2016	Non-Detect	42.7	1.51	0.077(J)	6.54	20	155	Non-Detect	Non-Detect	0.035	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.077(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00205(J)	Non-Detect
GC-AP-MW-23	6/1/2016	Non-Detect	41.8	1.46	0.101(J)	6.49	20.1	148	Non-Detect	Non-Detect	0.0328	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.044(U)	0.101(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	8/16/2016	Non-Detect	40.9	1.5	0.093(J)	6.57	19.1	132	Non-Detect	Non-Detect	0.033	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.213(U)	0.093(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	10/11/2016	0.024(J)	38.1	1.52	0.059(J)	6.54	18.4	n/a	Non-Detect	Non-Detect	0.0352	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.184(U)	0.059(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	11/2/2016	n/a	n/a	n/a	n/a	6.54	n/a	115	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-23	1/24/2017	0.0333(J)	27.7	1.38	n/a	6.42	15	107	0.000886(J)	Non-Detect	0.0286	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.251(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	3/14/2017	n/a	n/a	n/a	0.07(J)	6.59	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.07(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-23	5/9/2017	Non-Detect	29.3	2.4	0.08(J)	6.42	14	80.7	Non-Detect	Non-Detect	0.0257	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.631	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	6/27/2017	Non-Detect	28.6	2.1	0.08(J)	6.44	14	96.7	Non-Detect	Non-Detect	0.0246	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.145(U)	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	8/29/2017	Non-Detect	32.3	2.4	0.1	6.43	16	120	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.1	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-23	2/27/2018	n/a	n/a	n/a	0.08(J)	6.49	n/a	n/a	Non-Detect	Non-Detect	0.0287	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.402(U)	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	6/5/2018	Non-Detect	34.5	1.7(J)	0.09(J)	6.43	14	113	Non-Detect	Non-Detect	0.0279	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.313(U)	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	9/11/2018	n/a	32	1.5(J)	n/a	6.35	13	108	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-23	11/7/2018	Non-Detect	30.3	1.4(J)	0.08(J)	6.37	14	96.7	Non-Detect	Non-Detect	0.0281	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.496(U)	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	3/26/2019	Non-Detect	31.3	1.23	0.123	6.46	12.3	103	Non-Detect	Non-Detect	0.0295	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.315(U)	0.123	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	9/10/2019	Non-Detect	30.7	1.38	0.0914(J)	5.85	12.4	107	Non-Detect	Non-Detect	0.0338	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.219(U)	0.0914(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	4/21/2020	Non-Detect	30.8	1.08	0.095(J)	6.26	10.2	107	Non-Detect	Non-Detect	0.0296	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.166(U)	0.095(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-23	8/12/2020	Non-Detect	28	1.28	0.0867(J)	6.03	10.2	96	Non-Detect	Non-Detect	0.0311	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.986	0.0867(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-24	2/17/2016	Non-Detect	6.54	3.3	0.02(J)	5.39	10.4	53	Non-Detect	Non-Detect	0.0305	Non-Detect	Non-Detect	Non-Detect	0.000219(J)	<3	0.02(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00039(J)
GC-AP-MW-24	4/12/2016	Non-Detect	6.15	3.25	0.026(J)	5.29	11.3	38.7	Non-Detect	Non-Detect	0.0312	Non-Detect	Non-Detect	Non-Detect	Non-Detect	<3	0.026(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	6/1/2016	Non-Detect	5.7	3.55	0.057(J)	5.39	10.4	46	Non-Detect	Non-Detect	0.0298	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.407	0.057(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	8/16/2016	Non-Detect	6.77	3.45	0.046(J)	5.51	12.2	48	Non-Detect	Non-Detect	0.0308	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.547(U)	0.046(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	10/11/2016	Non-Detect	8.84	3.78	Non-Detect	5.44	19.8	n/a	Non-Detect	Non-Detect	0.042	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.845	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	11/2/2016	n/a	n/a	n/a	n/a	5.49	n/a	66.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-24	1/24/2017	Non-Detect	12.8	4.61	n/a	5.44	30.7	78.7	0.000858(J)	Non-Detect	0.0446	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.403(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	3/14/2017	n/a	n/a	n/a	Non-Detect	5.48	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-24	5/10/2017	Non-Detect	12.4	5.9	Non-Detect	5.43	33	92.7	Non-Detect	Non-Detect	0.0568	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.645	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	6/28/2017	Non-Detect	17.9	5.7	Non-Detect	5.49	56	118	Non-Detect	Non-Detect	0.0663	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.93	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00268(J)	Non-Detect
GC-AP-MW-24	8/29/2017	Non-Detect	19	6.8	0.04(J)	5.46	61	128	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-24	2/27/2018	n/a	n/a	n/a	Non-Detect	5.48	n/a	n/a	Non-Detect	Non-Detect	0.101	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.88	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00281(J)	Non-Detect
GC-AP-MW-24	6/5/2018	Non-Detect	30	7.9	0.04(J)	5.31	97	171	Non-Detect	Non-Detect	0.108	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.13	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00294(J)	Non-Detect
GC-AP-MW-24	9/11/2018	n/a	28.7	6.1	n/a	5.36	83	170	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-24	11/7/2018	Non-Detect	30.7	5.2	Non-Detect	5.34	91	163	Non-Detect	Non-Detect	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.72	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	3/26/2019	Non-Detect	32.3	6.92	Non-Detect	5.32	103	174	Non-Detect	Non-Detect	0.0978	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.21	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00208(J)	Non-Detect
GC-AP-MW-24	9/10/2019	Non-Detect	32.8	4.39	0.0545(J)	4.9	83.4	167	Non-Detect	Non-Detect	0.0967	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.21	0.0545(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	4/22/2020	Non-Detect	31.4	2.75	Non-Detect	5.3	84.7	162	Non-Detect	Non-Detect	0.0738	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.791	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-24	8/12/2020	Non-Detect	35.8	4.14	Non-Detect	5.04	82.2	165	Non-Detect	Non-Detect	0.0788	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.919	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-25	2/17/2016	0.0922(J)	10.2	22.9	0.02(J)	5.36	28.7	144	Non-Detect	Non-Detect	0.0895	Non-Detect	Non-Detect	Non-Detect	0.00683(J)	<3	0.02(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.000232(J)
GC-AP-MW-25	4/12/2016	0.0935(J)	10	22.2	0.021(J)	5.31	32.5	140	Non-Detect	Non-Detect	0.0966	Non-Detect	Non-Detect	Non-Detect	0.00656(J)	<3	0.021(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	6/1/2016	0.0826(J)	9.87	22.3	0.051(J)	5.35	31.9	139	Non-Detect	Non-Detect	0.0872	Non-Detect	Non-Detect	Non-Detect	0.00637(J)	0.1(U)	0.051(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	8/17/2016	0.092(J)	8.88	22.1	0.037(J)	5.38	30.5	142	Non-Detect	Non-Detect	0.0875	Non-Detect	Non-Detect	Non-Detect	0.00659(J)	0.372(U)	0.037(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	10/11/2016	0.0976(J)	9.22	21.8	Non-Detect	5.31	32.3	n/a	Non-Detect	Non-Detect	0.1	0.000715(J)	Non-Detect	Non-Detect	0.00687(J)	0.277(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	11/2/2016	n/a	n/a	n/a	n/a	5.39	n/a	128	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	1/24/2017	0.0877(J)	8.72	21.8	n/a	5.29	33.5	124	0.00111(J)	Non-Detect	0.0856	Non-Detect	Non-Detect	Non-Detect	0.00522(J)	0.585	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	3/14/2017	n/a	n/a	n/a	Non-Detect	5.19	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	5/9/2017	0.0953(J)	8.56	23	Non-Detect	5.29	33	136	Non-Detect	Non-Detect	0.093	Non-Detect	Non-Detect	Non-Detect	0.00646(J)	0.489	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	6/28/2017	0.0835(J)	7.16	22	0.04(J)	5.27	35	145	Non-Detect	Non-Detect	0.0829	Non-Detect	Non-Detect	Non-Detect	0.00721(J)	0.333	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	8/29/2017	0.0914(J)	8.32	22	Non-Detect	5.27	37	139	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	2/27/2018	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.08	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	2/28/2018	n/a	n/a	n/a	Non-Detect	5.28	n/a	n/a	Non-Detect	Non-Detect	0.0958	Non-Detect	Non-Detect	Non-Detect	0.00771(J)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	6/6/2018	0.102	9.05	20	Non-Detect	5.21	47	153	Non-Detect	Non-Detect	0.0892	Non-Detect	Non-Detect	Non-Detect	0.00712(J)	0.016(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	9/12/2018	n/a	8.98	20	n/a	5.23	41	156	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-25	11/6/2018	0.0995(J)	9.21	21	Non-Detect	5.28	48	153	Non-Detect	Non-Detect	0.0807	Non-Detect	Non-Detect	Non-Detect	0.00791	0.0751(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	3/27/2019	0.113	9.77	18.4	Non-Detect	5.27	62.4	178	Non-Detect	Non-Detect	0.0901	Non-Detect	Non-Detect	Non-Detect	0.0114	0.309(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	9/10/2019	0.105	9.28	17.7	Non-Detect	5.15	66	182	Non-Detect	Non-Detect	0.101	Non-Detect	Non-Detect	Non-Detect	0.0127	0.578	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	4/22/2020	0.104	11.3	17.1	Non-Detect	5.26	76.1	195	Non-Detect	Non-Detect	0.11	Non-Detect	Non-Detect	Non-Detect	0.0133	0.218(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-25	8/11/2020	0.11	10.7	16.7	Non-Detect	4.81	79.5	193	Non-Detect	Non-Detect	0.111	Non-Detect	Non-Detect	Non-Detect	0.0126	0.511(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-26	8/17/2016	Non-Detect	5.88	2.44	0.159(J)	5.85	16.2	64	Non-Detect	0.0017(J)	0.0476	0.00161(J)	Non-Detect	Non-Detect	0.0167	0.66	0.159(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	9/20/2016	Non-Detect	5.95	2.54	0.126(J)	5.82	14.9	60	Non-Detect	0.00283(J)	0.0436	0.00155(J)	Non-Detect	Non-Detect	0.0122	0.582	0.126(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	10/12/2016	Non-Detect	6.1	2.67	0.1(J)	5.76	12.4	54.7	Non-Detect	0.00218(J)	0.0397	0.00138(J)	Non-Detect	Non-Detect	0.00839(J)	-0.183(U)	0.1(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	11/15/2016	Non-Detect	6.28	2.94	0.016(J)	5.79	8.6	n/a	Non-Detect	0.00124(J)	0.0369	0.00109(J)	Non-Detect	Non-Detect	0.00562(J)	0.262(U)	0.016(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	11/29/2016	n/a	n/a	n/a	n/a	5.73	n/a	42	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-26	1/4/2017	Non-Detect	4.97	2.92	Non-Detect	5.69	12.2	56	Non-Detect	0.0028(J)	0.0518	0.00141(J)	Non-Detect	Non-Detect	0.00655(J)	0.255(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	1/23/2017	0.0217(J)	5.17	3.21	n/a	5.45	16	50.7	0.001(J)	0.00257(J)	0.0662	0.00171(J)	Non-Detect	Non-Detect	0.0116	0.871	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00247(J)	Non-Detect
GC-AP-MW-26	3/13/2017	n/a	n/a	n/a	0.31	4.8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.31	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-26	5/9/2017	Non-Detect	15.7	2.5	0.25	4.82	55	126	Non-Detect	0.00138(J)	0.0691	0.00226(J)	0.000706(J)	Non-Detect	0.0167	0.575	0.25	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0072(J)	Non-Detect
GC-AP-MW-26	6/27/2017	Non-Detect	14.2	3	0.22	5.27	45	93.3	Non-Detect	Non-Detect	0.0603	0.0017(J)	0.000429(J)	Non-Detect	0.0109	0.459	0.22	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00443(J)	Non-Detect
GC-AP-MW-26	8/29/2017	Non-Detect	11.1	3.6	0.22	5.28	37	84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.22	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-26	2/27/2018	n/a	n/a	n/a	0.08(J)	5.11	n/a	n/a	Non-Detect	Non-Detect	0.0386	0.00147(J)	Non-Detect	Non-Detect	0.00278(J)	1.3	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	6/5/2018	Non-Detect	3.93	2.2	0.07(J)	5.24	9.3	38.7	Non-Detect	Non-Detect	0.0356	0.000821(J)	Non-Detect	Non-Detect	0.00223(J)	0.269(U)	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	9/11/2018	n/a	3.76	1.5(J)	n/a	5.28	7.8	35.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-26	11/6/2018	Non-Detect	4.81	2.5	0.07(J)	5.54	6	40.7	Non-Detect	Non-Detect	0.0387	0.000757(J)	Non-Detect	Non-Detect	0.00202(J)	0.328(U)	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	3/26/2019	Non-Detect	3.18	2	Non-Detect	5.4	6.86	36.7	Non-Detect	Non-Detect	0.0419	0.00092(J)	Non-Detect	Non-Detect	Non-Detect	0.571	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	9/11/2019	Non-Detect	3.98	2.34	0.0716(J)	5.53	5.29	40.7	Non-Detect	Non-Detect	0.0468	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.561	0.0716(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	4/21/2020	Non-Detect	3.83	2.04	Non-Detect	5.3	6.28	39.3	Non-Detect	Non-Detect	0.0439	0.000756(J)	Non-Detect	Non-Detect	Non-Detect	0.215(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-26	8/18/2020	Non-Detect	4.58	2.16	Non-Detect	4.79	9.57	42	Non-Detect	Non-Detect	0.0409	0.000828(J)	Non-Detect	Non-Detect	0.00279(J)	2.3	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-27	8/17/2016	Non-Detect	1.1	1.78	0.039(J)	5.47	0.928(J)	36.7	Non-Detect	Non-Detect	0.0803	Non-Detect	0.000211(J)	Non-Detect	0.00692(J)	0.386(U)	0.039(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	9/20/2016	Non-Detect	0.771	1.61	0.01	5.22	0.478(J)	25.3	Non-Detect	Non-Detect	0.0679	Non-Detect	Non-Detect	Non-Detect	0.00232(J)	0.794	0.01	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	10/12/2016	0.02(J)	0.711	1.51	Non-Detect	5.1	0.727(J)	Non-Detect	Non-Detect	Non-Detect	0.0644	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.81	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	11/15/2016	Non-Detect	0.641	1.5	Non-Detect	5.07	0.448(J)	n/a	Non-Detect	Non-Detect	0.0628	Non-Detect	0.000216(J)	Non-Detect	Non-Detect	0.366(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	11/29/2016	n/a	n/a	n/a	n/a	5.1	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-27	1/4/2017	Non-Detect	0.797	1.53	Non-Detect	5.3	0.627(J)	27.3	Non-Detect	Non-Detect	0.0477	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.356(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	1/23/2017	0.0287(J)	0.655	1.62	n/a	5.12	1.34	Non-Detect	0.00083(J)	Non-Detect	0.0482	Non-Detect	0.000231(J)	Non-Detect	0.00203(J)	0.429(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	3/14/2017	n/a	n/a	n/a	Non-Detect	4.74	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-27	5/9/2017	Non-Detect	0.538	2.2	Non-Detect	4.83	Non-Detect	28.7	Non-Detect	Non-Detect	0.0611	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.62	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	6/27/2017	Non-Detect	0.413(J)	1.9(J)	Non-Detect	4.87	Non-Detect	27.3	Non-Detect	Non-Detect	0.0492	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.319(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	8/29/2017	Non-Detect	0.504	2	Non-Detect	4.71	Non-Detect	30.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-27	2/27/2018	n/a	n/a	n/a	Non-Detect	4.96	n/a	n/a	Non-Detect	Non-Detect	0.0463	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.271(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	6/5/2018	Non-Detect	0.339(J)	1.9(J)	Non-Detect	5	2.1(J)	26	Non-Detect	Non-Detect	0.0298	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.391	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	9/11/2018	n/a	0.776	Non-Detect	n/a	4.94	Non-Detect	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-27	11/6/2018	Non-Detect	0.746	1.9(J)	Non-Detect	4.9	Non-Detect	26	Non-Detect	Non-Detect	0.0582	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.646	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	3/26/2019	Non-Detect	0.526	2.18	Non-Detect	4.96	1.66	Non-Detect	0.00137(J)	Non-Detect	0.0499	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.498	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	9/11/2019	Non-Detect	0.638	1.7	Non-Detect	4.85	1.29	27.3	Non-Detect	Non-Detect	0.0574	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.368(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	4/21/2020	Non-Detect	1.15	1.9	Non-Detect	4.29	2.21	30.7	Non-Detect	Non-Detect	0.0827	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.55	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-27	8/18/2020	Non-Detect	0.884	1.63	Non-Detect	4.75	1.57	27.3	Non-Detect	Non-Detect	0.0734	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.504(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-28	8/17/2016	Non-Detect	7.74	1.77	0.055(J)	6.15	6.46	65.3	Non-Detect	Non-Detect	0.336	Non-Detect	0.000742(J)	Non-Detect	0.00599(J)	1.47	0.055(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	9/20/2016	Non-Detect	2.43	1.56	0.021	4.99	8.3	44	Non-Detect	Non-Detect	0.341	Non-Detect	0.000857(J)	Non-Detect	0.00466(J)	1.24	0.021	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	10/12/2016	Non-Detect	2.46	1.54	Non-Detect	4.88	8.36	n/a	Non-Detect	Non-Detect	0.347	Non-Detect	0.000912(J)	Non-Detect	0.00394(J)	0.899	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	10/31/2016	n/a	n/a	n/a	n/a	4.87	n/a	38.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	11/15/2016	Non-Detect	2.28	1.53	Non-Detect	4.81	8.75	n/a	Non-Detect	Non-Detect	0.332	Non-Detect	0.000821(J)	Non-Detect	0.00296(J)	0.933	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	11/29/2016	n/a	n/a	n/a	n/a	4.84	n/a	34	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	1/4/2017	Non-Detect	2.7	1.58	Non-Detect	4.88	7.85	42	Non-Detect	Non-Detect	0.299	Non-Detect	0.000718(J)	Non-Detect	0.00448(J)	1.54	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	1/24/2017	0.0331(J)	4.19	1.71	n/a	5.4	6.62	45.3	0.00096(J)	Non-Detect	0.264	Non-Detect	0.000716(J)	Non-Detect	0.00259(J)	0.868	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	3/14/2017	n/a	n/a	n/a	Non-Detect	5.13	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	5/9/2017	Non-Detect	3.28	2.1	Non-Detect	4.96	5.6	49.3	Non-Detect	Non-Detect	0.322	Non-Detect	0.000746(J)	Non-Detect	Non-Detect	1.22	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	6/27/2017	Non-Detect	3.76	2	Non-Detect	5.34	5.3	46	Non-Detect	Non-Detect	0.278	Non-Detect	0.00065(J)	Non-Detect	Non-Detect	0.925	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	8/30/2017	Non-Detect	2.31	1.5(J)	Non-Detect	4.69	8.2	38.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	2/27/2018	n/a	n/a	n/a	Non-Detect	4.91	n/a	n/a	Non-Detect	Non-Detect	0.312	Non-Detect	0.000752(J)	Non-Detect	Non-Detect	0.0271(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	6/5/2018	Non-Detect	2.76	1.2(J)	Non-Detect	4.87	8.3	34.7	Non-Detect	Non-Detect	0.243	Non-Detect	0.000731(J)	Non-Detect	Non-Detect	0.792	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	9/11/2018	n/a	2.04	Non-Detect	n/a	4.65	8.9	34.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-28	11/6/2018	Non-Detect	2	Non-Detect	Non-Detect	4.67	8.6	36	Non-Detect	Non-Detect	0.249	Non-Detect	0.000646(J)	Non-Detect	Non-Detect	0.926	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	3/26/2019	Non-Detect	2.13	1.2	Non-Detect	4.92	10.1	30	0.000975(J)	Non-Detect	0.232	Non-Detect	0.000582(J)	Non-Detect	Non-Detect	1.08	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	9/11/2019	Non-Detect	1.98	1.26	0.0649(J)	4.33	10.6	40	Non-Detect	Non-Detect	0.246	Non-Detect	0.000573(J)	Non-Detect	Non-Detect	0.995	0.0649(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	4/21/2020	Non-Detect	2.41	1.32	Non-Detect	4.07	9.4	36	Non-Detect	Non-Detect	0.219	Non-Detect	0.00052(J)	Non-Detect	Non-Detect	0.307(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-28	8/18/2020	Non-Detect	2.23	1.38	Non-Detect	4.59	10.3	35.3	Non-Detect	Non-Detect	0.211	Non-Detect	0.000476(J)	Non-Detect	Non-Detect	0.797	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-29	8/16/2016	Non-Detect	2.02	2.21	0.05(J)	6.21	0.894(J)	41.3	Non-Detect	0.00199(J)	0.0527	Non-Detect	Non-Detect	Non-Detect	0.0122	0.522	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	9/20/2016	Non-Detect	1.22	2.12	0.015(J)	6.05	Non-Detect	42.7	Non-Detect	0.00155(J)	0.0698	Non-Detect	Non-Detect	Non-Detect	0.012	0.746	0.015(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	10/11/2016	Non-Detect	1.48	2.24	Non-Detect	6.2	Non-Detect	n/a	Non-Detect	0.00231(J)	0.0799	Non-Detect	Non-Detect	Non-Detect	0.0135	0.819	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	10/31/2016	n/a	n/a	n/a	n/a	6.61	n/a	140	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	11/15/2016	0.0229(J)	1.36	6.65	Non-Detect	6.64	1.19	n/a	Non-Detect	0.0044(J)	0.0479	Non-Detect	Non-Detect	Non-Detect	0.00938(J)	0.516	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00308(J)	Non-Detect	Non-Detect
GC-AP-MW-29	11/29/2016	n/a	n/a	n/a	n/a	6.39	n/a	78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	1/4/2017	Non-Detect	1.11	2.15	Non-Detect	6.06	Non-Detect	34	Non-Detect	0.00123(J)	0.0513	Non-Detect	Non-Detect	Non-Detect	0.00859(J)	0.648(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	1/26/2017	Non-Detect	1.03	2.31	n/a	6.02	0.6(J)	32.7	0.00092(J)	0.00169(J)	0.0674	Non-Detect	0.000228(J)	Non-Detect	0.0104	0.852	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	3/13/2017	n/a	n/a	n/a	Non-Detect	5.68	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	5/9/2017	Non-Detect	0.289(J)	2.3	Non-Detect	5.05	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0836	Non-Detect	0.000277(J)	Non-Detect	0.0119	0.148(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	6/27/2017	Non-Detect	0.292(J)	2.1	Non-Detect	4.9	Non-Detect	30.7	Non-Detect	Non-Detect	0.0661	Non-Detect	Non-Detect	Non-Detect	0.0106	0.393	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	8/30/2017	Non-Detect	0.336(J)	2.8	Non-Detect	4.73	Non-Detect	25.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	2/27/2018	n/a	n/a	n/a	Non-Detect	4.87	n/a	n/a	Non-Detect	Non-Detect	0.05	Non-Detect	Non-Detect	Non-Detect	0.0027(J)	0.695	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	6/5/2018	Non-Detect	0.2(J)	1.8(J)	Non-Detect	4.89	1.4(J)	Non-Detect	Non-Detect	Non-Detect	0.0433	Non-Detect	Non-Detect	Non-Detect	0.00317(J)	0.145(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	9/11/2018	n/a	0.171(J)	Non-Detect	n/a	4.88	Non-Detect	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-29	11/6/2018	Non-Detect	0.193(J)	Non-Detect	Non-Detect	4.86	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0379	Non-Detect	Non-Detect	Non-Detect	0.00367(J)	0.513(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	3/26/2019	Non-Detect	0.223(J)	1.07	Non-Detect	4.97	0.594(J)	Non-Detect	Non-Detect	Non-Detect	0.0348	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.598	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	9/11/2019	Non-Detect	0.158(J)	1.19	Non-Detect	3.96	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0404	Non-Detect	Non-Detect	Non-Detect	0.00265(J)	0.237(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	4/21/2020	Non-Detect	0.287(J)	1.09	Non-Detect	3.9	0.694(J)	Non-Detect	Non-Detect	Non-Detect	0.0542	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.201(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-29	8/18/2020	Non-Detect	0.231(J)	1.05	Non-Detect	4.22	0.608(J)	Non-Detect	Non-Detect	Non-Detect	0.0442	Non-Detect	Non-Detect	Non-Detect	0.00224(J)	3.88	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-30	8/16/2016	Non-Detect	1.24	2.54	0.036(J)	5.39	0.702(J)	Non-Detect	Non-Detect	Non-Detect	0.0376	Non-Detect	Non-Detect	Non-Detect	0.00548(J)	0.434(U)	0.036(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	9/20/2016	Non-Detect	1.11	2.51	Non-Detect	5.37	Non-Detect	26.7	Non-Detect	Non-Detect	0.0348	Non-Detect	Non-Detect	Non-Detect	0.0026(J)	0.51	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	10/11/2016	Non-Detect	1.22	2.34	Non-Detect	5.39	Non-Detect	n/a	Non-Detect	Non-Detect	0.0396	Non-Detect	Non-Detect	Non-Detect	0.00214(J)	0.166(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	10/31/2016	n/a	n/a	n/a	n/a	5.36	n/a	25.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	11/15/2016	Non-Detect	1.34	2.1	Non-Detect	5.33	Non-Detect	n/a	Non-Detect	Non-Detect	0.0359	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.589	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	11/29/2016	n/a	n/a	n/a	n/a	5.33	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	1/4/2017	Non-Detect	2.39	2.44	Non-Detect	5.49	Non-Detect	34.7	Non-Detect	Non-Detect	0.0238	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.659	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	1/23/2017	Non-Detect	1.83	2.37	n/a	5.48	0.493(J)	33.3	0.000701(J)	Non-Detect	0.029	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.227(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	3/14/2017	n/a	n/a	n/a	Non-Detect	5.17	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	5/9/2017	Non-Detect	0.823	2.8	Non-Detect	5.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0409	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.436(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	6/27/2017	Non-Detect	0.956	2.1	Non-Detect	5.29	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0303	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.197(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	8/30/2017	Non-Detect	1.04	3	Non-Detect	5.09	Non-Detect	28	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	2/27/2018	n/a	n/a	n/a	Non-Detect	5.25	n/a	n/a	Non-Detect	Non-Detect	0.0383	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.896	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	6/5/2018	Non-Detect	1.18	2.3	Non-Detect	5.12	Non-Detect	28.7	Non-Detect	Non-Detect	0.0633	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.342(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	9/11/2018	n/a	1.5	1.5(J)	n/a	5.19	Non-Detect	29.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-30	11/6/2018	Non-Detect	1.64	1.4(J)	Non-Detect	5.12	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0463	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.928	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	3/26/2019	Non-Detect	1.33	2.42	Non-Detect	5.16	Non-Detect	Non-Detect	0.000854(J)	Non-Detect	0.101	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.3	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	9/11/2019	Non-Detect	0.925	3.72	Non-Detect	4.11	Non-Detect	34	Non-Detect	Non-Detect	0.0855	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.995	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	4/21/2020	Non-Detect	0.864	3.89	Non-Detect	4.44	Non-Detect	26.7	Non-Detect	Non-Detect	0.0485	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00976(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-30	8/18/2020	Non-Detect	0.926	3.8	Non-Detect	4.76	Non-Detect	30	Non-Detect	Non-Detect	0.0529	Non-Detect	Non-Detect	Non-Detect	Non-Detect	3.33	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-31	8/16/2016	Non-Detect	39.5	5.32	0.087(J)	7.13	1.78	142	Non-Detect	0.00185(J)	0.0226	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.34	0.087(J)	Non-Detect	Non-Detect	Non-Detect	0.00201(J)	Non-Detect	Non-Detect
GC-AP-MW-31	9/19/2016	Non-Detect	34.5	5.29	0.045(J)	6.94	2.06	121	Non-Detect	0.00121(J)	0.0202	Non-Detect	Non-Detect	Non-Detect	0.00242(J)	0.561(U)	0.045(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	10/11/2016	Non-Detect	32.4	5.26	0.034(J)	6.82	2.33	n/a	Non-Detect	0.00111(J)	0.0219	Non-Detect	Non-Detect	Non-Detect	0.0024(J)	0.118(U)	0.034(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	11/1/2016	n/a	n/a	n/a	n/a	6.71	n/a	103	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	11/14/2016	Non-Detect	26.5	5.28	Non-Detect	6.57	2.31	n/a	Non-Detect	Non-Detect	0.0215	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.984	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	11/28/2016	n/a	n/a	n/a	n/a	6.57	n/a	84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	1/3/2017	Non-Detect	22.6	5.18	Non-Detect	6.56	2.81	89.3	Non-Detect	Non-Detect	0.019	Non-Detect	Non-Detect	Non-Detect	0.00217(J)	0.473(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	1/24/2017	0.0282(J)	19.5	5.41	n/a	6.41	3.34	83.3	0.000928(J)	Non-Detect	0.0167	Non-Detect	Non-Detect	Non-Detect	0.000239(J)	-0.422(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	3/14/2017	n/a	n/a	n/a	Non-Detect	6.37	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	5/10/2017	Non-Detect	15.7	5.8	0.05(J)	6.41	2.9(J)	31.3	Non-Detect	Non-Detect	0.0246	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.706	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	6/27/2017	Non-Detect	13.8	5.4	0.05(J)	6.14	3.4(J)	67.3	Non-Detect	Non-Detect	0.0238	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.412	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	8/30/2017	Non-Detect	11.1	6	Non-Detect	6.08	3.7(J)	64	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	2/27/2018	n/a	n/a	n/a	Non-Detect	5.99	n/a	n/a	Non-Detect	Non-Detect	0.0231	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.314(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	6/5/2018	Non-Detect	9.12	5.2	Non-Detect	5.93	3.7(J)	50	Non-Detect	Non-Detect	0.0228	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.218(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	9/11/2018	n/a	7.5	5.5	n/a	5.86	2.2(J)	53.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-31	11/6/2018	Non-Detect	7.39	5.1	Non-Detect	5.89	3.1(J)	66	Non-Detect	Non-Detect	0.0211	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.566(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	3/27/2019	Non-Detect	7.65	5.26	Non-Detect	5.95	3.55	48.7	Non-Detect	Non-Detect	0.025	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.29(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	9/11/2019	Non-Detect	6.96	5.31	Non-Detect	5.85	3.83	52.7	Non-Detect	Non-Detect	0.0267	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.28(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	4/22/2020	Non-Detect	5.92	5.37	Non-Detect	5.75	3.78	49.3	Non-Detect	Non-Detect	0.0285	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0983(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-31	8/11/2020	Non-Detect	7.46	5.45	Non-Detect	5.63	4.33	52	Non-Detect	Non-Detect	0.0264	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.767	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-32	8/16/2016	Non-Detect	9.33	4.24	0.054(J)	6	2.06	49.3	Non-Detect	Non-Detect	0.0134	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.951	0.054(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	9/19/2016	Non-Detect	9.26	4.13	0.023(J)	6	1.44	44.7	Non-Detect	Non-Detect	0.0125	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.242(U)	0.023(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	10/11/2016	Non-Detect	9.31	4.07	0.011(J)	6.02	1.38	n/a	Non-Detect	Non-Detect	0.0128	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.34(U)	0.011(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	11/1/2016	n/a	n/a	n/a	n/a	5.97	n/a	48	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	11/14/2016	Non-Detect	9.17	4.08	Non-Detect	5.98	1.15	n/a	Non-Detect	Non-Detect	0.0129	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.447(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	11/28/2016	n/a	n/a	n/a	n/a	6	n/a	40.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	1/3/2017	Non-Detect	9.66	4.06	Non-Detect	6.03	1.57	49.3	Non-Detect	Non-Detect	0.0116	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.729	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	1/24/2017	Non-Detect	9.67	4.4	n/a	5.9	2.06	48.7	0.00091(J)	Non-Detect	0.0118	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.184(U)	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	3/14/2017	n/a	n/a	n/a	Non-Detect	6.07	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	5/10/2017	Non-Detect	9.81	4.4	0.05(J)	6	2.1(J)	46.7	Non-Detect	Non-Detect	0.0142	Non-Detect	Non-Detect	Non-Detect	Non-Detect	n/a	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	5/31/2017	n/a	n/a	n/a	n/a	6.02	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.454	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	6/27/2017	Non-Detect	9.88	4	0.04(J)	6.05	2.7(J)	55.3	Non-Detect	Non-Detect	0.0127	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.111(U)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	8/30/2017	Non-Detect	10.3	4.8	0.04(J)	6.13	2.6(J)	57.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.04(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	2/27/2018	n/a	n/a	n/a	0.04(J)	6.1	n/a	n/a	Non-Detect	Non-Detect	0.0135	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.146(U)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	6/5/2018	Non-Detect	11.4	3.8	0.04(J)	6.05	3.1(J)	52.7	Non-Detect	Non-Detect	0.0126	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.128(U)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	9/11/2018	n/a	10.5	4.1	n/a	6.07	1.6(J)	60	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-32	11/5/2018	Non-Detect	10.5	3.9	Non-Detect	6.01	2.4(J)	53.3	Non-Detect	Non-Detect	0.0123	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0946(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	3/27/2019	Non-Detect	11.6	3.9	Non-Detect	6.15	3.24	46.7	Non-Detect	Non-Detect	0.0134	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.5	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	9/11/2019	Non-Detect	9.95	4.21	0.0518(J)	5.87	2.66	55.3	Non-Detect	Non-Detect	0.0147	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.464(U)	0.0518(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	4/22/2020	Non-Detect	9.87	4	Non-Detect	5.92	2.51	52.7	Non-Detect	Non-Detect	0.0133	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.474(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-32	8/12/2020	Non-Detect	9.48	4.17	Non-Detect	5.84	2.54	49.3	Non-Detect	Non-Detect	0.0127	Non-Detect	Non-Detect	Non-Detect	Non-Detect	3.18	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-33	8/16/2016	0.0268(J)	5.54	4.88	0.061(J)	6.34	9.33	101	Non-Detect	0.00122(J)	0.0304	Non-Detect	Non-Detect	Non-Detect	0.00923(J)	0.534(U)	0.061(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	9/19/2016	0.0225(J)	3.01	4.45	0.018(J)	6.11	11.2	80	Non-Detect	Non-Detect	0.0215	Non-Detect	Non-Detect	Non-Detect	0.00539(J)	0.238(U)	0.018(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	10/11/2016	0.0304(J)	2.74	4.36	Non-Detect	5.99	12.6	n/a	Non-Detect	Non-Detect	0.0236	Non-Detect	Non-Detect	Non-Detect	0.00506(J)	0.158(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	11/1/2016	n/a	n/a	n/a	n/a	5.84	n/a	78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	11/14/2016	0.0355(J)	2.47	4.42	Non-Detect	5.83	12.4	n/a	Non-Detect	Non-Detect	0.0206	Non-Detect	Non-Detect	Non-Detect	0.00399(J)	0.641	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	11/28/2016	n/a	n/a	n/a	n/a	5.79	n/a	68.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	1/3/2017	0.0304(J)	2.94	5.18	Non-Detect	5.39	14.3	60.7	Non-Detect	Non-Detect	0.0409	Non-Detect	Non-Detect	Non-Detect	0.0037(J)	0.834	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	1/25/2017	Non-Detect	2.91	5.66	n/a	5.09	15.2	54.7	0.00112(J)	Non-Detect	0.0455	Non-Detect	Non-Detect	Non-Detect	0.0077(J)	0.605	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	3/14/2017	n/a	n/a	n/a	Non-Detect	4.99	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Non-Detect	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	5/10/2017	Non-Detect	2.27	8	0.06(J)	4.63	12	60.7	Non-Detect	Non-Detect	0.0798	Non-Detect	Non-Detect	Non-Detect	0.00291(J)	0.563	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	6/27/2017	Non-Detect	2.2	7.2	0.07(J)	4.76	13	58	Non-Detect	Non-Detect	0.0679	Non-Detect	Non-Detect	Non-Detect	0.00247(J)	0.937	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	8/30/2017	Non-Detect	2.26	6.9	0.08(J)	4.85	15	66.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.08(J)	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	2/27/2018	n/a	n/a	n/a	0.07(J)	4.69	n/a	n/a	Non-Detect	Non-Detect	0.0856	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.475	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	6/5/2018	Non-Detect	2.97	4.2	0.1	4.62	17	71.3	Non-Detect	Non-Detect	0.0875	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.65	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	9/11/2018	n/a	2.6	4.2	n/a	4.79	16	66.7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-33	11/6/2018	Non-Detect	2.42	4.5	0.08(J)	4.62	15	61.3	Non-Detect	Non-Detect	0.0726	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.55	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	3/27/2019	Non-Detect	2.75	4.33	Non-Detect	4.68	15.1	65.3	Non-Detect	Non-Detect	0.0912	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.83	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	9/11/2019	Non-Detect	2.17	4.16	Non-Detect	4.57	14.5	69.3	Non-Detect	Non-Detect	0.0824	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.02	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	4/22/2020	Non-Detect	3.15	5.66	Non-Detect	4.71	9.64	62.7	Non-Detect	Non-Detect	0.102	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.08	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-33	8/12/2020	Non-Detect	1.78	4.46	Non-Detect	4.65	13.6	62	Non-Detect	Non-Detect	0.0601	Non-Detect	Non-Detect	Non-Detect	Non-Detect	3.41	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Analytical Data Summary
Plant Greene County Ash Pond
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		APPENDIX III							APPENDIX IV														
WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-PZ-4	9/12/2018	n/a	172	12	n/a	6.13	400	714	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-PZ-4	3/27/2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.69	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-PZ-4	9/10/2019	0.293	160	10.9	0.0831(J)	5.79	499	854	Non-Detect	0.00176(J)	0.0787	Non-Detect	Non-Detect	Non-Detect	0.146	1.89	0.0831(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-PZ-4	4/20/2020	0.308	147	9.87	0.132	5.99	482	824	Non-Detect	0.0029(J)	0.0801	Non-Detect	Non-Detect	Non-Detect	0.157	1.59	0.132	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00237(J)	Non-Detect
GC-AP-PZ-4	8/17/2020	0.344	153	9.78	0.0959(J)	5.94	493	826	Non-Detect	0.00191(J)	0.0718	Non-Detect	Non-Detect	Non-Detect	0.148	1.16	0.0959(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-19	9/12/2018	n/a	155	24	n/a	6.6	160	538	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GC-AP-MW-34HA	1/17/2019	Non-Detect	25.3	7.87	Non-Detect	5.65	47.9	156	Non-Detect	Non-Detect	0.0714	Non-Detect	Non-Detect	Non-Detect	0.033	0.628	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-34HA	9/10/2019	Non-Detect	12.8	5.54	Non-Detect	4.87	27.1	112	Non-Detect	Non-Detect	0.0554	Non-Detect	Non-Detect	Non-Detect	0.0131	0.656	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-34HA	4/22/2020	Non-Detect	12	7.6	Non-Detect	5.45	26.8	114	Non-Detect	Non-Detect	0.0578	Non-Detect	Non-Detect	Non-Detect	0.00675	0.473	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-34HA	8/12/2020	Non-Detect	9.68	2.07	Non-Detect	4.78	13.5	66	Non-Detect	Non-Detect	0.0467	Non-Detect	Non-Detect	Non-Detect	0.00222(J)	2.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-35H	1/16/2019	0.0284(J)	19.6	3.1	Non-Detect	5.99	34.9	85.3	Non-Detect	Non-Detect	0.0492	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0207(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00367(J)	Non-Detect
GC-AP-MW-35H	9/11/2019	Non-Detect	22.2	1.15	0.082(J)	5.6	30	100	Non-Detect	Non-Detect	0.0369	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.734	0.082(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00404(J)	Non-Detect
GC-AP-MW-35H	4/21/2020	Non-Detect	47.3	3.62	0.16	6.54	44.5	176	Non-Detect	Non-Detect	0.0473	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.423	0.16	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00451(J)	Non-Detect
GC-AP-MW-35H	8/18/2020	Non-Detect	22.9	1.12	0.0766(J)	6.03	28.8	100	Non-Detect	Non-Detect	0.033	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.636(U)	0.0766(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00268(J)	Non-Detect
GC-AP-MW-36H	1/30/2019	0.164	2.85	3.04	0.264	7.87	11	184	Non-Detect	0.0034(J)	0.00776(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.479(U)	0.264	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-36H	9/11/2019	0.147	1.16	3.95	0.289	7.2	11	182	Non-Detect	0.00222(J)	0.00323(J)	Non-Detect	Non-Detect	0.0155	Non-Detect	0.412(U)	0.289	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-36H	4/22/2020	0.143	0.941	4.4	0.279	7.72	10.9	199	Non-Detect	0.00168(J)	0.0027(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.103	0.279	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-36H	8/11/2020	0.145	1.06	3.28	0.325	7.69	8.73	184	Non-Detect	0.00223(J)	0.00393(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.223(U)	0.325	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-37H	1/15/2019	0.224	231	13.4	0.0512(J)	5.88	780	1210	Non-Detect	Non-Detect	0.0454	Non-Detect	Non-Detect	Non-Detect	0.0407	0.354(U)	0.0512(J)	Non-Detect	0.0141(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-37H	4/22/2020	0.186	175	10.3	0.197	6.23	510	977	Non-Detect	0.00768	0.0248	Non-Detect	Non-Detect	Non-Detect	0.0327	0.273	0.197	Non-Detect	0.0134(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-37H	8/19/2020	0.229	143	13.9	0.141	5.95	402	834	Non-Detect	0.00618	0.0591	Non-Detect	Non-Detect	Non-Detect	0.0176	0.994	0.141	Non-Detect	0.0108(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-38H	1/14/2019	0.148	123	37.9	0.0841(J)	6.56	103	381	Non-Detect	Non-Detect	0.0814	Non-Detect	Non-Detect	0.0117	Non-Detect	0.359(U)	0.0841(J)	Non-Detect	Non-Detect	Non-Detect	0.00574(J)	0.018	Non-Detect
GC-AP-MW-38H	9/11/2019	0.175	84	3.82	0.142	6.55	60.5	280	Non-Detect	Non-Detect	0.0581	Non-Detect	Non-Detect	Non-Detect	0.00363(J)	1.22	0.142	Non-Detect	Non-Detect	Non-Detect	0.00203(J)	0.0155	Non-Detect
GC-AP-MW-38H	4/22/2020	0.118	83.9	2.25	0.135	6.66	66.5	290	Non-Detect	Non-Detect	0.0607	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.413	0.135	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0111	Non-Detect
GC-AP-MW-38H	8/19/2020	0.135	96	3.4	0.149	6.57	70	308	Non-Detect	Non-Detect	0.0678	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.347(U)	0.149	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0108	Non-Detect
GC-AP-MW-39H	1/15/2019	1.68	97.6	14.3	0.465	6.4	48.5	597	Non-Detect	0.0514	0.185	Non-Detect	Non-Detect	Non-Detect	0.0173	0.901	0.465	Non-Detect	0.399	Non-Detect	0.00419(J)	Non-Detect	0.00092(J)
GC-AP-MW-39H	9/11/2019	1.67	91.6	14.1	0.443	6.17	44.1	454	Non-Detect	0.053	0.173	Non-Detect	Non-Detect	Non-Detect	0.0194	1.16	0.443	Non-Detect	0.45	Non-Detect	0.00338(J)	Non-Detect	0.000983(J)
GC-AP-MW-39H	4/22/2020	1.89	102	12.9	0.446	6.42	31.7	512	Non-Detect	0.0533	0.192	Non-Detect	Non-Detect	Non-Detect	0.0192	1.48	0.446	Non-Detect	0.41	Non-Detect	0.00246(J)	Non-Detect	0.0008(J)
GC-AP-MW-39H	8/11/2020	1.84	111	7.85	0.494	6.7	51.7	526	Non-Detect	0.0635	0.177	Non-Detect	Non-Detect	Non-Detect	0.0176	2.02	0.494	Non-Detect	0.47	Non-Detect	0.00401(J)	Non-Detect	0.000814(J)
GC-AP-MW-40H	1/15/2019	0.702	60.7	13	0.0981(J)	5.7	224	392	Non-Detect	Non-Detect	0.0361	Non-Detect	Non-Detect	Non-Detect	0.0203	0.387(U)	0.0981(J)	Non-Detect	0.407	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-40H	9/10/2019	0.734	97.5	10.5	0.18	5.61	291	576	Non-Detect	Non-Detect	0.0294	Non-Detect	Non-Detect	Non-Detect	0.0139	0.519(U)	0.18	Non-Detect	0.545	Non-Detect	Non-Detect	Non-Detect	0.000223(J)
GC-AP-MW-40H	4/20/2020	0.821	88.2	10.8	0.0952(J)	5.63	247	534	Non-Detect	Non-Detect	0.0282	Non-Detect	Non-Detect	Non-Detect	0.0132	0.66	0.0952(J)	Non-Detect	0.628	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-40H	8/12/2020	0.807	115	8.34	0.145	5.83	285	588	Non-Detect	Non-Detect	0.0295	Non-Detect	Non-Detect	Non-Detect	0.00717	0.928	0.145	Non-Detect	0.669	Non-Detect	Non-Detect	Non-Detect	0.000208(J)
GC-AP-MW-41H	1/15/2019	0.762	115	16.6	0.0859(J)	6.71	96	433	Non-Detect	0.002(J)	0.13	Non-Detect	Non-Detect	Non-Detect	0.0044(J)	0.839	0.0859(J)	Non-Detect	0.0411(NONE)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-41H	9/11/2019	0.758	72.1	16.5	0.0609(J)	5.96	79.1	334	Non-Detect	0.00208(J)	0.1	Non-Detect	Non-Detect	Non-Detect	0.00897	0.13(U)	0.0609(J)	Non-Detect	0.0396	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-41H	4/29/2020	0.699	70.8	16.1	0.0857(J)	6.37	77.2	317	Non-Detect	0.00182(J)	0.0998	Non-Detect	Non-Detect	Non-Detect	0.00777	0.684	0.0857(J)	Non-Detect	0.041	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-41H	8/18/2020	0.689	66.7	15.9	0.092(J)	5.93	76.6	299	Non-Detect	0.00171(J)	0.0879	Non-Detect	Non-Detect	Non-Detect	0.00814	0.742	0.092(J)	Non-Detect	0.039	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-42H	1/15/2019	1.73	70	19.9	Non-Detect	6.29	9.73	334	Non-Detect	0.00372(J)	0.162	Non-Detect	Non-Detect	Non-Detect	0.0281	0.739	Non-Detect	Non-Detect	0.0146(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-42H	9/11/2019	1.88	57.2	20.7	0.063(J)	6.2	9.43	299	Non-Detect	0.00583	0.123	Non-Detect	Non-Detect	0.00325(J)	0.0449	0.195(U)	0.063(J)	Non-Detect	0.0169(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-42H	4/21/2020	1.76	56.5	19.9	0.0701(J)	6.01	12.4	299	Non-Detect	0.00417(J)	0.108	Non-Detect	Non-Detect	Non-Detect	0.0359	0.678	0.0701(J)	Non-Detect	0.0174(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-42H	8/19/2020	1.26	59.3	18.2	0.077(J)	6.27	55.7	371	Non-Detect	0.00445(J)	0.119	Non-Detect	Non-Detect	Non-Detect	0.037	0.687	0.077(J)	Non-Detect	0.0168(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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WELL	SAMPLE DATE	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Combined Radium 226 + 228	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Thallium
UNITS		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
GC-AP-MW-43H	1/16/2019	0.835	54.9	26.1	0.0888(J)	6.48	74	345	Non-Detect	0.00816	0.12	Non-Detect	Non-Detect	Non-Detect	0.0131	0.426(U)	0.0888(J)	Non-Detect	0.178	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-43H	9/11/2019	1.07	60.7	31.4	0.127	6.52	45.7	368	Non-Detect	0.0124	0.127	Non-Detect	Non-Detect	Non-Detect	0.0143	0.558(U)	0.127	Non-Detect	0.254	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-43H	4/21/2020	1.08	81.4	40.4	0.147	6.18	59.7	463	Non-Detect	0.0101	0.156	Non-Detect	Non-Detect	Non-Detect	0.0162	1.89	0.147	Non-Detect	0.376	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-43H	8/19/2020	1.15	99.7	46.9	0.154	6.18	71.8	534	Non-Detect	0.0103	0.168	Non-Detect	Non-Detect	Non-Detect	0.0173	1.99	0.154	Non-Detect	0.336	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-44H	1/16/2019	0.173	174	12.3	0.0727(J)	6.39	394	706	Non-Detect	Non-Detect	0.131	Non-Detect	Non-Detect	Non-Detect	0.106	0.422(U)	0.0727(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-44H	9/11/2019	0.199	179	11.8	0.0783(J)	6.11	409	1570	Non-Detect	0.00269(J)	0.0797	Non-Detect	Non-Detect	Non-Detect	0.106	0.637(U)	0.0783(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-44H	4/20/2020	0.2	167	12	0.0638(J)	6.11	429	790	Non-Detect	0.00215(J)	0.0594	Non-Detect	Non-Detect	Non-Detect	0.324	0.386	0.0638(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-44H	8/12/2020	0.197	173	10.8	0.0867(J)	6.27	415	728	Non-Detect	0.00197(J)	0.0589	Non-Detect	Non-Detect	Non-Detect	0.273	4.07	0.0867(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-45H	4/20/2020	0.426	64.9	10.9	0.176	7.14	157	369	Non-Detect	0.00153(J)	0.0898	Non-Detect	Non-Detect	Non-Detect	0.00451(J)	0.529	0.176	Non-Detect	0.148	Non-Detect	0.0703	Non-Detect	Non-Detect
GC-AP-MW-45H	8/17/2020	0.57	57.2	8.99	0.195	6.94	128	305	Non-Detect	Non-Detect	0.0632	Non-Detect	Non-Detect	Non-Detect	0.00458(J)	1.16	0.195	Non-Detect	0.212	Non-Detect	0.0737	Non-Detect	Non-Detect
GC-AP-MW-48H	4/21/2020	0.172	28.9	12.3	Non-Detect	6.5	90.2	208	Non-Detect	0.0021(J)	0.028	Non-Detect	Non-Detect	Non-Detect	0.00236(J)	0.251	Non-Detect	Non-Detect	0.0924	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-48H	8/17/2020	0.218	27.6	11.9	Non-Detect	6.24	78	181	Non-Detect	Non-Detect	0.027	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.11	Non-Detect	Non-Detect	0.108	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-49H	4/21/2020	0.272	36.8	11.3	0.075(J)	6.28	90.8	222	Non-Detect	Non-Detect	0.0437	Non-Detect	Non-Detect	Non-Detect	0.00799	0.594	0.075(J)	Non-Detect	0.0733	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-49H	8/19/2020	0.213	27.4	7.53	0.0823(J)	6.14	70.7	171	Non-Detect	Non-Detect	0.0394	Non-Detect	0.000334(J)	Non-Detect	0.00853	0.0107(U)	0.0823(J)	Non-Detect	0.0511	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-53H	4/20/2020	0.309	93.1	23.9	0.154	6.17	14.7	441	Non-Detect	0.0806	0.278	Non-Detect	Non-Detect	Non-Detect	0.119	1.13	0.154	Non-Detect	0.0107(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-53H	8/11/2020	0.493	92.8	21.2	0.133	5.8	12.6	434	Non-Detect	0.0869	0.246	Non-Detect	Non-Detect	Non-Detect	0.0859	1.56	0.133	Non-Detect	0.0125(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-54H	4/20/2020	0.626	98.8	9.74	0.25	6.58	242	545	Non-Detect	0.41	0.259	Non-Detect	Non-Detect	Non-Detect	0.0203	1	0.25	Non-Detect	0.101	Non-Detect	0.00223(J)	Non-Detect	Non-Detect
GC-AP-MW-54H	8/12/2020	0.76	101	10.8	0.275	6.67	180	497	Non-Detect	0.467	0.221	Non-Detect	Non-Detect	Non-Detect	0.0272	2.14	0.275	Non-Detect	0.105	Non-Detect	0.00278(J)	Non-Detect	Non-Detect
GC-AP-MW-57H	4/20/2020	0.252	69.5	7.88	0.189	6.12	252	502	Non-Detect	0.0375	0.0771	Non-Detect	Non-Detect	Non-Detect	0.0862	1.5	0.189	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GC-AP-MW-57H	8/12/2020	0.338	79.1	6.3	0.165	6.48	274	491	Non-Detect	0.0467	0.0796	Non-Detect	Non-Detect	Non-Detect	0.0857	0.991	0.165	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Appendix D

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

2020 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).

Heavy recent flooding in the area left standing water up to the well casing for MW-14 and it is possible that the well was submerged under flood waters for a period of time.

Light rain was present when pumping and sampling well MW-31.

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

Alabama Power

Sample Group : WMWGREAP_1275

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 : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

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

Alabama Power

May 15, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between April 22, 2020 and April 30, 2020. 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, 2020

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2020.05.18 10:36:39 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2020.05.18 11:13:15 -05'00'

NELAP ACCREDITED TNI LABORATORY

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.

Alabama Power Lab & Field SERVICES

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

Case Narrative

Alabama Power

Metals ICP

Greene County Ash Pond

WMWGREAP_1275

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA07484	671610	WMWGREAP_1275
BA07485	671610	WMWGREAP_1275
BA07486	671610	WMWGREAP_1275
BA07487	671610	WMWGREAP_1275
BA07488	671610	WMWGREAP_1275
BA07489	671610	WMWGREAP_1275
BA07490	671610	WMWGREAP_1275
BA07491	671610	WMWGREAP_1275
BA07492	671610	WMWGREAP_1275
BA07493	671610	WMWGREAP_1275
BA07494	671611	WMWGREAP_1275
BA07495	671611	WMWGREAP_1275
BA07496	671611	WMWGREAP_1275
BA07497	671611	WMWGREAP_1275
BA07498	671611	WMWGREAP_1275
BA07499	671611	WMWGREAP_1275
BA07500	671611	WMWGREAP_1275
BA07501	671611	WMWGREAP_1275
BA07502	671611	WMWGREAP_1275
BA07503	671611	WMWGREAP_1275
BA07504	671612	WMWGREAP_1275
BA07505	671612	WMWGREAP_1275
BA07506	671612	WMWGREAP_1275
BA07507	671612	WMWGREAP_1275
BA07508	671612	WMWGREAP_1275
BA07509	671612	WMWGREAP_1275
BA07510	671612	WMWGREAP_1275
BA07511	671612	WMWGREAP_1275
BA07512	671612	WMWGREAP_1275
BA07513	671612	WMWGREAP_1275
BA07514	671613	WMWGREAP_1275

BA07515	671613	WMWGREAP_1275
BA07516	671613	WMWGREAP_1275
BA07517	671613	WMWGREAP_1275
BA07518	671613	WMWGREAP_1275
BA07519	671613	WMWGREAP_1275
BA07520	671613	WMWGREAP_1275
BA07521	671613	WMWGREAP_1275
BA07522	671613	WMWGREAP_1275
BA07523	671613	WMWGREAP_1275
BA07524	671634	WMWGREAP_1275
BA07525	671634	WMWGREAP_1275
BA07720	671634	WMWGREAP_1275
BA07721	671634	WMWGREAP_1275
BA07722	671634	WMWGREAP_1275
BA07723	671634	WMWGREAP_1275
BA07724	671634	WMWGREAP_1275
BA07725	671634	WMWGREAP_1275
BA07726	671634	WMWGREAP_1275
BA07727	671634	WMWGREAP_1275
BA07728	671635	WMWGREAP_1275
BA07729	671635	WMWGREAP_1275
BA07730	671635	WMWGREAP_1275
BA07731	671635	WMWGREAP_1275
BA07732	671635	WMWGREAP_1275
BA07733	671635	WMWGREAP_1275
BA07734	671635	WMWGREAP_1275
BA07735	671635	WMWGREAP_1275
BA08042	672559	WMWGREAP_1275

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 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.
- 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:
    - BA07513, BA07735, & BA08042 MS/MSD spike levels for calcium were less than 30% of the sample nominal 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:

Sample ID	Analyte	Dilution Factor
BA07484	Calcium	10.15
BA07485	Calcium	10.15
BA07486	Calcium	10.15
BA07487	Calcium	10.15
BA07488	Calcium	10.15
BA07491	Calcium	10.15
BA07492	Calcium	10.15
BA07494	Calcium	10.15
BA07495	Calcium	10.15
BA07496	Calcium	10.15
BA07497	Calcium	10.15
BA07498	Calcium	10.15
BA07499	Calcium	10.15
BA07500	Calcium	10.15
BA07501	Calcium	10.15
BA07502	Calcium	10.15
BA07503	Calcium	10.15
BA07504	Calcium	10.15
BA07506	Calcium	10.15
BA07507	Calcium	10.15
BA07508	Calcium	10.15
BA07511	Calcium	10.15
BA07512	Calcium	10.15
BA07514	Calcium	10.15
BA07515	Calcium	10.15
BA07516	Calcium	10.15
BA07518	Calcium	10.15
BA07519	Calcium	10.15
BA07520	Calcium	10.15
BA07725	Calcium	10.15
BA07732	Calcium	10.15
BA07733	Calcium	10.15
BA07735	Calcium	10.15
BA08042	Calcium	10.15

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

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

Case Narrative

Alabama Power

Metals ICPMS

Greene County Ash Pond

WMWGREAP_1275

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA07484	672535	WMWGREAP_1275
BA07485	672535	WMWGREAP_1275
BA07486	672535	WMWGREAP_1275
BA07487	672535	WMWGREAP_1275
BA07488	672535	WMWGREAP_1275
BA07489	672535	WMWGREAP_1275
BA07490	672535	WMWGREAP_1275
BA07491	672535	WMWGREAP_1275
BA07492	672535	WMWGREAP_1275
BA07493	672535	WMWGREAP_1275
BA07494	672536	WMWGREAP_1275
BA07495	672536	WMWGREAP_1275
BA07496	672536	WMWGREAP_1275
BA07497	672536	WMWGREAP_1275
BA07498	672536	WMWGREAP_1275
BA07499	672536	WMWGREAP_1275
BA07500	672536	WMWGREAP_1275
BA07501	672536	WMWGREAP_1275
BA07502	672536	WMWGREAP_1275
BA07503	672536	WMWGREAP_1275
BA07504	672537	WMWGREAP_1275
BA07505	672537	WMWGREAP_1275
BA07506	672537	WMWGREAP_1275
BA07507	672537	WMWGREAP_1275
BA07508	672537	WMWGREAP_1275
BA07509	672537	WMWGREAP_1275
BA07510	672537	WMWGREAP_1275
BA07511	672537	WMWGREAP_1275
BA07512	672537	WMWGREAP_1275
BA07513	672537	WMWGREAP_1275
BA07514	672538	WMWGREAP_1275

BA07515	672538	WMWGREAP_1275
BA07516	672538	WMWGREAP_1275
BA07517	672538	WMWGREAP_1275
BA07518	672538	WMWGREAP_1275
BA07519	672538	WMWGREAP_1275
BA07520	672538	WMWGREAP_1275
BA07521	672538	WMWGREAP_1275
BA07522	672538	WMWGREAP_1275
BA07523	672538	WMWGREAP_1275
BA07524	672539	WMWGREAP_1275
BA07525	672539	WMWGREAP_1275
BA07720	672539	WMWGREAP_1275
BA07721	672539	WMWGREAP_1275
BA07722	672539	WMWGREAP_1275
BA07723	672539	WMWGREAP_1275
BA07724	672539	WMWGREAP_1275
BA07725	672539	WMWGREAP_1275
BA07726	672539	WMWGREAP_1275
BA07727	672539	WMWGREAP_1275
BA07728	672540	WMWGREAP_1275
BA07729	672540	WMWGREAP_1275
BA07730	672540	WMWGREAP_1275
BA07731	672540	WMWGREAP_1275
BA07732	672540	WMWGREAP_1275
BA07733	672540	WMWGREAP_1275
BA07734	672540	WMWGREAP_1275
BA07735	672540	WMWGREAP_1275
BA08042	672758	WMWGREAP_1275

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 except for the following:
    - BA08042 CCV for Cobalt on initial analysis. All samples were re-analyzed for Cobalt on a different instrument with passing results.
- 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.

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. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

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

Case Narrative

Alabama Power

Mercury

Greene County Ash Pond

WMWGREAP_1275

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA07484	671636	WMWGREAP_1275
BA07485	671636	WMWGREAP_1275
BA07486	671636	WMWGREAP_1275
BA07487	671636	WMWGREAP_1275
BA07488	671636	WMWGREAP_1275
BA07489	671636	WMWGREAP_1275
BA07490	671636	WMWGREAP_1275
BA07491	671636	WMWGREAP_1275
BA07492	671636	WMWGREAP_1275
BA07493	671636	WMWGREAP_1275
BA07494	671637	WMWGREAP_1275
BA07495	671637	WMWGREAP_1275
BA07496	671637	WMWGREAP_1275
BA07497	671637	WMWGREAP_1275
BA07498	671637	WMWGREAP_1275
BA07499	671637	WMWGREAP_1275
BA07500	671637	WMWGREAP_1275
BA07501	671637	WMWGREAP_1275
BA07502	671637	WMWGREAP_1275
BA07503	671637	WMWGREAP_1275
BA07504	671638	WMWGREAP_1275
BA07505	671638	WMWGREAP_1275
BA07506	671638	WMWGREAP_1275
BA07507	671638	WMWGREAP_1275
BA07508	671638	WMWGREAP_1275
BA07509	671638	WMWGREAP_1275
BA07510	671638	WMWGREAP_1275
BA07511	671638	WMWGREAP_1275
BA07512	671638	WMWGREAP_1275
BA07513	671638	WMWGREAP_1275
BA07514	671639	WMWGREAP_1275

BA07515	671639	WMWGREAP_1275
BA07516	671639	WMWGREAP_1275
BA07517	671639	WMWGREAP_1275
BA07518	671639	WMWGREAP_1275
BA07519	671639	WMWGREAP_1275
BA07520	671639	WMWGREAP_1275
BA07521	671639	WMWGREAP_1275
BA07522	671639	WMWGREAP_1275
BA07523	671639	WMWGREAP_1275
BA07524	671640	WMWGREAP_1275
BA07525	671640	WMWGREAP_1275
BA07720	671640	WMWGREAP_1275
BA07721	671640	WMWGREAP_1275
BA07722	671640	WMWGREAP_1275
BA07723	671640	WMWGREAP_1275
BA07724	671640	WMWGREAP_1275
BA07725	671640	WMWGREAP_1275
BA07726	671640	WMWGREAP_1275
BA07727	671640	WMWGREAP_1275
BA07728	671641	WMWGREAP_1275
BA07729	671641	WMWGREAP_1275
BA07730	671641	WMWGREAP_1275
BA07731	671641	WMWGREAP_1275
BA07732	671641	WMWGREAP_1275
BA07733	671641	WMWGREAP_1275
BA07734	671641	WMWGREAP_1275
BA07735	671641	WMWGREAP_1275
BA08042	672596	WMWGREAP_1275

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 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, except for the following:
    - BA07727 precision for Mercury is out of specification limit.

7. All samples were analyzed without a dilution.
8. The raw data results are shown with dilution factors included.

Case Narrative

TDS

Greene County Ash Pond

WMWGREAP_1275

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA07484	671726	WMWGREAP_1275
BA07485	671726	WMWGREAP_1275
BA07486	671726 & 672170	WMWGREAP_1275
BA07487	671726	WMWGREAP_1275
BA07488	671726	WMWGREAP_1275
BA07489	671726	WMWGREAP_1275
BA07490	671726	WMWGREAP_1275
BA07491	671847	WMWGREAP_1275
BA07492	671847	WMWGREAP_1275
BA07493	671847	WMWGREAP_1275
BA07494	671642	WMWGREAP_1275
BA07495	671642	WMWGREAP_1275
BA07496	671642	WMWGREAP_1275
BA07497	671642	WMWGREAP_1275
BA07498	671642	WMWGREAP_1275
BA07499	671644	WMWGREAP_1275
BA07500	671644	WMWGREAP_1275
BA07501	671644	WMWGREAP_1275
BA07502	671726	WMWGREAP_1275
BA07503	671727	WMWGREAP_1275
BA07504	671727	WMWGREAP_1275
BA07505	671727	WMWGREAP_1275
BA07506	671727	WMWGREAP_1275
BA07507	671727	WMWGREAP_1275
BA07508	671847	WMWGREAP_1275
BA07509	671847	WMWGREAP_1275
BA07510	671847	WMWGREAP_1275
BA07511	671644	WMWGREAP_1275
BA07512	671644	WMWGREAP_1275
BA07513	671644	WMWGREAP_1275
BA07514	671644	WMWGREAP_1275

BA07515	671644	WMWGREAP_1275
BA07516	671644	WMWGREAP_1275
BA07517	671644	WMWGREAP_1275
BA07518	671727	WMWGREAP_1275
BA07519	671727	WMWGREAP_1275
BA07520	671727	WMWGREAP_1275
BA07521	671727	WMWGREAP_1275
BA07522	671727	WMWGREAP_1275
BA07523	671847	WMWGREAP_1275
BA07524	671847	WMWGREAP_1275
BA07525	671847	WMWGREAP_1275
BA07720	671847	WMWGREAP_1275
BA07721	671916	WMWGREAP_1275
BA07722	671916	WMWGREAP_1275
BA07723	671916	WMWGREAP_1275
BA07724	671916	WMWGREAP_1275
BA07725	671916	WMWGREAP_1275
BA07726	671916	WMWGREAP_1275
BA07727	671916	WMWGREAP_1275
BA07728	671916	WMWGREAP_1275
BA07729	671916	WMWGREAP_1275
BA07730	671916	WMWGREAP_1275
BA07731	672170	WMWGREAP_1275
BA07732	672170	WMWGREAP_1275
BA07733	672170	WMWGREAP_1275
BA07734	672170	WMWGREAP_1275
BA07735	672170	WMWGREAP_1275
BA08042	672445	WMWGREAP_1275

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were analyzed within the established hold times, except for the following:
    a. BA07486 was originally run within hold time but did not meet the residue limit due to error during prep of sample aliquot. Sample was re-prepped one day out of hold time with customer approval.
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. RPD/2 was less than 5%.
- 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:
    - BA07490
    - BA07493
    - BA07510
    - BA07517
    - BA07722
    - BA07727
    - BA07734

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

Case Narrative

Alabama Power

Anions

Greene County Ash Pond

WMWGREAP_1275

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA07484	672190, 672196, & 671720	WMWGREAP_1275
BA07485	672190, 672196, & 671720	WMWGREAP_1275
BA07486	672190, 672196, & 671720	WMWGREAP_1275
BA07487	672190, 672196, & 671720	WMWGREAP_1275
BA07488	672190, 672196, & 671720	WMWGREAP_1275
BA07489	672190, 672196, & 671720	WMWGREAP_1275
BA07490	672190, 672196, & 671720	WMWGREAP_1275
BA07491	672190, 672196, & 671720	WMWGREAP_1275
BA07492	672190, 672196, & 671720	WMWGREAP_1275
BA07493	672190, 672196, & 671720	WMWGREAP_1275
BA07494	672191, 672197, & 671721	WMWGREAP_1275
BA07495	672191, 672197, & 671721	WMWGREAP_1275
BA07496	672191, 672197, & 671721	WMWGREAP_1275
BA07497	672191, 672197, & 671721	WMWGREAP_1275
BA07498	672191, 672197, & 671721	WMWGREAP_1275
BA07499	672191, 672197, & 671721	WMWGREAP_1275
BA07500	672191, 672197, & 671721	WMWGREAP_1275
BA07501	672191, 672197, & 671721	WMWGREAP_1275
BA07502	672191, 672197, & 671721	WMWGREAP_1275
BA07503	672191, 672197, & 671721	WMWGREAP_1275
BA07504	672192, 672198, & 671722	WMWGREAP_1275
BA07505	672192, 672198, & 671722	WMWGREAP_1275
BA07506	672192, 672198, & 671722	WMWGREAP_1275
BA07507	672192, 672198, & 671722	WMWGREAP_1275
BA07508	672192, 672198, & 671722	WMWGREAP_1275
BA07509	672192, 672198, & 671722	WMWGREAP_1275
BA07510	672192, 672198, & 671722	WMWGREAP_1275
BA07511	672192, 672198, & 671722	WMWGREAP_1275
BA07512	672192, 672198, & 671722	WMWGREAP_1275
BA07513	672192, 672198, & 671722	WMWGREAP_1275
BA07514	672193, 672199, & 671723	WMWGREAP_1275

BA07515	672193, 672199, & 671723	WMWGREAP_1275
BA07516	672193, 672199, & 671723	WMWGREAP_1275
BA07517	672193, 672199, & 671723	WMWGREAP_1275
BA07518	672193, 672199, & 671723	WMWGREAP_1275
BA07519	672193, 672199, & 671723	WMWGREAP_1275
BA07520	672193, 672199, & 671723	WMWGREAP_1275
BA07521	672193, 672199, & 671723	WMWGREAP_1275
BA07522	672193, 672199, & 671723	WMWGREAP_1275
BA07523	672193, 672199, & 671723	WMWGREAP_1275
BA07524	672194, 672200, & 671724	WMWGREAP_1275
BA07525	672194, 672200, & 671724	WMWGREAP_1275
BA07720	672194, 672200, & 671724	WMWGREAP_1275
BA07721	672194, 672200, & 671724	WMWGREAP_1275
BA07722	672194, 672200, & 671724	WMWGREAP_1275
BA07723	672194, 672200, & 671724	WMWGREAP_1275
BA07724	672194, 672200, & 671724	WMWGREAP_1275
BA07725	672194, 672200, & 671724	WMWGREAP_1275
BA07726	672194, 672200, & 671724	WMWGREAP_1275
BA07727	672194, 672200, & 671724	WMWGREAP_1275
BA07728	672195, 672201, & 671725	WMWGREAP_1275
BA07729	672195, 672201, & 671725	WMWGREAP_1275
BA07730	672195, 672201, & 671725	WMWGREAP_1275
BA07731	672195, 672201, & 671725	WMWGREAP_1275
BA07732	672195, 672201, & 671725	WMWGREAP_1275
BA07733	672195, 672201, & 671725	WMWGREAP_1275
BA07734	672195, 672201, & 671725	WMWGREAP_1275
BA07735	672195, 672201, & 671725	WMWGREAP_1275
BA08042	672459, 672461, & 672586	WMWGREAP_1275

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met, except for the following:
    - BA07503 & BA08042 precisions were outside of the acceptance criteria for Fluoride. However, both the sample and duplicate results were less than the reporting limit.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BA07484	Chloride & Sulfate	5 & 8
BA07485	Chloride & Sulfate	8 & 16
BA07486	Chloride & Sulfate	8 & 16
BA07487	Chloride & Sulfate	8 & 2
BA07488	Chloride & Sulfate	2 & 8
BA07491	Sulfate	8
BA07492	Sulfate	2
BA07494	Chloride	2

BA07495	Sulfate	16
BA07496	Sulfate	16
BA07497	Sulfate	16
BA07498	Sulfate	20
BA07499	Sulfate	20
BA07500	Chloride	2
BA07501	Sulfate	20
BA07502	Sulfate	32
BA07503	Sulfate	40
BA07504	Sulfate	5
BA07505	Sulfate	4
BA07506	Sulfate	4
BA07507	Chloride & Sulfate	4 & 3
BA07509	Sulfate	4
BA07511	Sulfate	8
BA07512	Sulfate	8
BA07513	Sulfate	8
BA07514	Sulfate	16
BA07515	Sulfate	8
BA07516	Sulfate	2
BA07518	Chloride	2
BA07519	Sulfate	4
BA07520	Sulfate	10
BA07725	Sulfate	2
BA07726	Chloride & Sulfate	2 & 2
BA07728	Sulfate	4
BA07729	Sulfate	5
BA07730	Sulfate	5
BA07732	Sulfate	4
BA07735	Sulfate	40
BA08042	Sulfate	5

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

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 4/21/20 08:35
Customer ID:
Submittal Date: 4/22/20 13:46

Laboratory ID Number: BA07484

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:26		1.015	1.77	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:27		10.15	142	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 11:26		1.015	0.0518	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:21		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 10:21		1.015	0.0728	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 10:21		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:21		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:21		1.015	0.00228	mg/L	0.002	0.005	J
* Lead, Total	4/28/20 08:00	4/30/20 10:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 10:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 10:21		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 10:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	742	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:36	4/27/20 09:36		5	37.4	mg/L	2.50	5	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 12:59	4/27/20 12:59		1	0.218	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:02	4/23/20 14:02		8	153	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/21/20 08:31	4/21/20 08:31			1179.31	uS/cm			FA
pH	4/21/20 08:31	4/21/20 08:31			6.54	SU			FA
Temperature	4/21/20 08:31	4/21/20 08:31			19.84	C			FA
Turbidity	4/21/20 08:31	4/21/20 08:31			2.06	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 08:35
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BA07484

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 08:35
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BA07484

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07502	Solids, Dissolved	mg/L	0.0000	25			1510	50.0	40 to 60			0.658	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 4/21/20 09:25
Customer ID:
Submittal Date: 4/22/20 13:46

Laboratory ID Number: BA07485

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:29		1.015	0.793	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:29		10.15	155	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 11:29		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:24		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 10:24		1.015	0.0762	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 10:24		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:24		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:24		1.015	0.00206	mg/L	0.002	0.005	J
* Lead, Total	4/28/20 08:00	4/30/20 10:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 10:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 10:24		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 10:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	1010	mg/L		83.3	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:37	4/27/20 09:37		8	66.2	mg/L	4.00	8	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:00	4/27/20 13:00		1	0.0951	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:03	4/23/20 14:03		16	318	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/21/20 09:23	4/21/20 09:23			1484.22	uS/cm			FA
pH	4/21/20 09:23	4/21/20 09:23			6.39	SU			FA
Temperature	4/21/20 09:23	4/21/20 09:23			19.63	C			FA
Turbidity	4/21/20 09:23	4/21/20 09:23			2.08	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:25
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BA07485

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:25
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BA07485

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07502	Solids, Dissolved	mg/L	0.0000	25			1510	50.0	40 to 60			0.658	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-7 DUP

Location Code: WMWGREAP
Collected: 4/21/20 09:25
Customer ID:
Submittal Date: 4/22/20 13:46

Laboratory ID Number: BA07486

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:32		1.015	0.803	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:32		10.15	156	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 11:32		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:26		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 10:26		1.015	0.0759	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 10:26		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:26		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:26		1.015	0.00207	mg/L	0.002	0.005	J
* Lead, Total	4/28/20 08:00	4/30/20 10:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 10:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 10:26		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 10:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/29/20 09:46	4/30/20 15:04		1	1030	mg/L		83.3	HT
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:38	4/27/20 09:38		8	64.1	mg/L	4.00	8	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:01	4/27/20 13:01		1	0.0985	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:04	4/23/20 14:04		16	316	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/21/20 09:23	4/21/20 09:23			1484.22	uS/cm			FA
pH	4/21/20 09:23	4/21/20 09:23			6.39	SU			FA
Temperature	4/21/20 09:23	4/21/20 09:23			19.63	C			FA
Turbidity	4/21/20 09:23	4/21/20 09:23			2.08	NTU			FA

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

Comments: TDS originally run within hold time, but did not meet the residue limit due to error during prep of sample aliquot. Sample was re-prepped one day out of hold time with customer approval. LBM 5/1/2020

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:25
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-7 DUP

Laboratory ID Number: BA07486

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20

Comments: TDS originally run within hold time, but did not meet the residue limit due to error during prep of sample aliquot. Sample was re-prepped one day out of hold time with customer approval. LBM 5/1/2020

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:25
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-7 DUP

Laboratory ID Number: BA07486

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07735	Solids, Dissolved	mg/L	2.00	25			957	51.0	40 to 60			1.03	5
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07502	Solids, Dissolved	mg/L	0.0000	25			1510	50.0	40 to 60			0.658	5

Comments: TDS originally run within hold time, but did not meet the residue limit due to error during prep of sample aliquot. Sample was re-prepped one day out of hold time with customer approval. LBM 5/1/2020

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 4/21/20 10:28
Customer ID:
Submittal Date: 4/22/20 13:46

Laboratory ID Number: BA07487

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:35		1.015	1.89	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:35		10.15	84.8	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 11:35		1.015	0.0582	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:29		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:29		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 10:29		1.015	0.116	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 10:29		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:29		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:29		1.015	0.0111	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 10:29		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 10:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 10:29		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 10:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	638	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:40	4/27/20 09:40		8	69.5	mg/L	4.00	8	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:02	4/27/20 13:02		1	0.114	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:05	4/23/20 14:05		2	43.3	mg/L	1.00	2	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/21/20 10:23	4/21/20 10:23			1070.25	uS/cm			FA
pH	4/21/20 10:23	4/21/20 10:23			6.06	SU			FA
Temperature	4/21/20 10:23	4/21/20 10:23			19.47	C			FA
Turbidity	4/21/20 10:23	4/21/20 10:23			2.06	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 10:28
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BA07487

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 10:28
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BA07487

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07502	Solids, Dissolved	mg/L	0.0000	25			1510	50.0	40 to 60			0.658	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 4/21/20 11:22
Customer ID:
Submittal Date: 4/22/20 13:46

Laboratory ID Number: BA07488

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:38		1.015	1.27	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:38		10.15	111	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 11:38		1.015	0.0693	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:32		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:32		1.015	0.0102	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 10:32		1.015	0.175	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 10:32		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:32		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:32		1.015	0.0166	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 10:32		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 10:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 10:32		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 10:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	578	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:41	4/27/20 09:41		2	24.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:03	4/27/20 13:03		1	0.181	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:06	4/23/20 14:06		8	133	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/21/20 11:18	4/21/20 11:18			922.09	uS/cm			FA
pH	4/21/20 11:18	4/21/20 11:18			6.25	SU			FA
Temperature	4/21/20 11:18	4/21/20 11:18			20.12	C			FA
Turbidity	4/21/20 11:18	4/21/20 11:18			2.08	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 11:22
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BA07488

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 11:22
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BA07488

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07502	Solids, Dissolved	mg/L	0.0000	25			1510	50.0	40 to 60			0.658	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 4/21/20 13:17
Customer ID:
Submittal Date: 4/22/20 13:46

Laboratory ID Number: BA07489

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:41		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 11:41		1.015	0.864	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 11:41		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 10:34		1.015	0.0485	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 10:34		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 10:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	26.7	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:42	4/27/20 09:42		1	3.89	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:05	4/27/20 13:05		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:08	4/23/20 14:08		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/21/20 13:14	4/21/20 13:14			29.29	uS/cm			FA
pH	4/21/20 13:14	4/21/20 13:14			4.44	SU			FA
Temperature	4/21/20 13:14	4/21/20 13:14			18.51	C			FA
Turbidity	4/21/20 13:14	4/21/20 13:14			2.46	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 13:17
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BA07489

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 13:17
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BA07489

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07502	Solids, Dissolved	mg/L	0.0000	25			1510	50.0	40 to 60			0.658	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 4/21/20 13:58
Customer ID:
Submittal Date: 4/22/20 13:46

Laboratory ID Number: BA07490

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:44		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 11:44		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	4/24/20 11:20	4/27/20 11:44		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 10:37		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 10:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:43	4/27/20 09:43		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:06	4/27/20 13:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:09	4/23/20 14:09		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 4/21/20 13:58
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07490

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 4/21/20 13:58
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07490

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07502	Solids, Dissolved	mg/L	0.0000	25			1510	50.0	40 to 60			0.658	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 4/21/20 14:18
Customer ID:
Submittal Date: 4/22/20 13:46

Laboratory ID Number: BA07491

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:47		1.015	0.720	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:41		10.15	93.0	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 11:47		1.015	0.130	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:40		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:40		1.015	0.420	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 10:40		1.015	0.138	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 10:40		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:40		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:40		1.015	0.00601	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 10:40		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:40		1.015	0.00255	mg/L	0.002	0.01	J
* Selenium, Total	4/28/20 08:00	4/30/20 10:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 10:40		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	494	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:44	4/27/20 09:44		1	12.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:07	4/27/20 13:07		1	0.224	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:10	4/23/20 14:10		8	163	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/21/20 14:15	4/21/20 14:15			763.59	uS/cm			FA
pH	4/21/20 14:15	4/21/20 14:15			6.50	SU			FA
Temperature	4/21/20 14:15	4/21/20 14:15			20.31	C			FA
Turbidity	4/21/20 14:15	4/21/20 14:15			3.38	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 14:18
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BA07491

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 14:18
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BA07491

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP
Collected: 4/21/20 15:28
Customer ID:
Submittal Date: 4/22/20 13:46

Laboratory ID Number: BA07492

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:50		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 12:44		10.15	47.3	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 11:50		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:42		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 10:42		1.015	0.0473	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 10:42		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:42		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:42		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 10:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 10:42		1.015	0.00451	mg/L	0.002	0.01	J
* Thallium, Total	4/28/20 08:00	4/30/20 10:42		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	176	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:46	4/27/20 09:46		1	3.62	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:08	4/27/20 13:08		1	0.160	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:11	4/23/20 14:11		2	44.5	mg/L	1.00	2	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/21/20 15:24	4/21/20 15:24			274.51	uS/cm			FA
pH	4/21/20 15:24	4/21/20 15:24			6.54	SU			FA
Temperature	4/21/20 15:24	4/21/20 15:24			19.58	C			FA
Turbidity	4/21/20 15:24	4/21/20 15:24			2.62	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 15:28
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BA07492

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 15:28
Customer ID:
Delivery Date: 4/22/20 13:46

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BA07492

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank

Location Code: WMWGREAPEB
Collected: 4/21/20 16:05
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07493

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 11:53		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 11:53		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	4/24/20 11:20	4/27/20 11:53		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 10:45		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 09:47	4/27/20 09:47		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:09	4/27/20 13:09		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:12	4/23/20 14:12		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 4/21/20 16:05
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: BA07493

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07493	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0965	0.0975	0.0992	0.085 to 0.115	96.5	70 to 130	1.03	20
BA07493	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0991	0.0976	0.0999	0.085 to 0.115	99.1	70 to 130	1.53	20
BA07493	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.102	0.103	0.101	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA07493	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.102	0.103	0.102	0.085 to 0.115	102	70 to 130	0.976	20
BA07493	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.197	0.197	0.203	0.17 to 0.23	98.5	70 to 130	0.00	20
BA07493	Calcium, Total	mg/L	-0.0111	0.1518	5.00	5.00	5.01	5.11	4.25 to 5.75	100	70 to 130	0.200	20
BA07493	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0998	0.100	0.103	0.085 to 0.115	99.8	70 to 130	0.200	20
BA07493	Mercury, Total by CVAA	mg/L	0.0000768	0.0005	0.004	0.00417	0.00425	0.00402	0.0034 to 0.0046	104	70 to 130	1.90	20
BA07493	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.0992	0.0977	0.0986	0.085 to 0.115	99.2	70 to 130	1.52	20
BA07493	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.100	0.102	0.102	0.085 to 0.115	100	70 to 130	1.98	20
BA07493	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.102	0.102	0.101	0.085 to 0.115	102	70 to 130	0.00	20
BA07493	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.108	0.104	0.104	0.085 to 0.115	108	70 to 130	3.77	20
BA07493	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.100	0.0972	0.0941	0.085 to 0.115	100	70 to 130	2.84	20
BA07493	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.03	1.03	1.05	0.85 to 1.15	103	70 to 130	0.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 4/21/20 16:05
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: BA07493

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07493	Chloride	mg/L	-0.0135	0.50	10.0	10.1	0.158	10.5	9 to 11	101	80 to 120	0.00	20
BA07493	Sulfate	mg/L	-0.498	0.50	20.0	19.6	-0.485	19.2	18 to 22	98.0	80 to 120	0.00	20
BA07493	Fluoride	mg/L	0.0231	0.05	2.50	2.60	0.0248	2.70	2.25 to 2.75	104	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP
Collected: 4/20/20 12:07
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07494

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:07		1.015	0.309	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:47		10.15	93.1	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:07		1.015	0.0107	mg/L	0.01	0.02	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:01		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:01		1.015	0.0806	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 11:01		1.015	0.278	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:01		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:01		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:01		1.015	0.119	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:01		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	441	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:09	4/27/20 10:09		2	23.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:37	4/27/20 13:37		1	0.154	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:51	4/23/20 14:51		1	14.7	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/20/20 12:04	4/20/20 12:04			695.21	uS/cm			FA
pH	4/20/20 12:04	4/20/20 12:04			6.17	SU			FA
Temperature	4/20/20 12:04	4/20/20 12:04			18.88	C			FA
Turbidity	4/20/20 12:04	4/20/20 12:04			5.45	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 12:07
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BA07494

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 12:07
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BA07494

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20
BA07498	Solids, Dissolved	mg/L	0.0000	25			790	51.0	40 to 60			0.00	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP
Collected: 4/20/20 13:06
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07495

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:10		1.015	0.626	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:50		10.15	98.8	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:10		1.015	0.101	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:03		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:03		1.015	0.410	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 11:03		1.015	0.259	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:03		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:03		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:03		1.015	0.0203	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:03		1.015	0.00223	mg/L	0.002	0.01	J
* Selenium, Total	4/28/20 08:00	4/30/20 11:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:03		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	545	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:00	4/27/20 10:00		1	9.74	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:38	4/27/20 13:38		1	0.250	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:52	4/23/20 14:52		16	242	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/20/20 13:03	4/20/20 13:03			746.90	uS/cm			FA
pH	4/20/20 13:03	4/20/20 13:03			6.58	SU			FA
Temperature	4/20/20 13:03	4/20/20 13:03			18.17	C			FA
Turbidity	4/20/20 13:03	4/20/20 13:03			6.88	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 13:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BA07495

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 13:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BA07495

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20
BA07498	Solids, Dissolved	mg/L	0.0000	25			790	51.0	40 to 60			0.00	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-54H DUP

Location Code: WMWGREAP
Collected: 4/20/20 13:06
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07496

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:13		1.015	0.629	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:53		10.15	100	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:13		1.015	0.101	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:06		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:06		1.015	0.414	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 11:06		1.015	0.264	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:06		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:06		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:06		1.015	0.0202	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:06		1.015	0.00223	mg/L	0.002	0.01	J
* Selenium, Total	4/28/20 08:00	4/30/20 11:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:06		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	550	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:01	4/27/20 10:01		1	9.78	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:39	4/27/20 13:39		1	0.244	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:53	4/23/20 14:53		16	234	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/20/20 13:03	4/20/20 13:03			746.90	uS/cm			FA
pH	4/20/20 13:03	4/20/20 13:03			6.58	SU			FA
Temperature	4/20/20 13:03	4/20/20 13:03			18.17	C			FA
Turbidity	4/20/20 13:03	4/20/20 13:03			6.88	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 13:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-54H DUP

Laboratory ID Number: BA07496

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 13:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-54H DUP

Laboratory ID Number: BA07496

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07498	Solids, Dissolved	mg/L	0.0000	25			790	51.0	40 to 60			0.00	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP
Collected: 4/20/20 14:10
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07497

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:16		1.015	0.252	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:08		10.15	69.5	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:16		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:08		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:08		1.015	0.0375	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 11:08		1.015	0.0771	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:08		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:08		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:08		1.015	0.0862	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:08		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:08		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	502	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:02	4/27/20 10:02		1	7.88	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:40	4/27/20 13:40		1	0.189	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:54	4/23/20 14:54		16	252	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/20/20 14:06	4/20/20 14:06			661.52	uS/cm			FA
pH	4/20/20 14:06	4/20/20 14:06			6.12	SU			FA
Temperature	4/20/20 14:06	4/20/20 14:06			17.48	C			FA
Turbidity	4/20/20 14:06	4/20/20 14:06			2.97	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 14:10
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BA07497

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 14:10
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BA07497

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07498	Solids, Dissolved	mg/L	0.0000	25			790	51.0	40 to 60			0.00	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 4/20/20 15:14
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07498

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:19		1.015	0.200	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:11		10.15	167	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:19		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:11		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:11		1.015	0.00215	mg/L	0.001	0.005	J
* Barium, Total	4/28/20 08:00	4/30/20 11:11		1.015	0.0594	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:11		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:11		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:11		1.015	0.324	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:11		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	790	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:03	4/27/20 10:03		1	12.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:42	4/27/20 13:42		1	0.0638	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:55	4/23/20 14:55		20	429	mg/L	10.00	20	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/20/20 15:12	4/20/20 15:12			913.74	uS/cm			FA
pH	4/20/20 15:12	4/20/20 15:12			6.11	SU			FA
Temperature	4/20/20 15:12	4/20/20 15:12			17.55	C			FA
Turbidity	4/20/20 15:12	4/20/20 15:12			5.72	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 15:14
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BA07498

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 15:14
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BA07498

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20
BA07498	Solids, Dissolved	mg/L	0.0000	25			790	51.0	40 to 60			0.00	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 4/20/20 16:25
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07499

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:22		1.015	0.308	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:14		10.15	147	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:22		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:14		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:14		1.015	0.00290	mg/L	0.001	0.005	J
* Barium, Total	4/28/20 08:00	4/30/20 11:14		1.015	0.0801	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:14		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:14		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:14		1.015	0.157	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:14		1.015	0.00237	mg/L	0.002	0.01	J
* Thallium, Total	4/28/20 08:00	4/30/20 11:14		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	824	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:05	4/27/20 10:05		1	9.87	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:43	4/27/20 13:43		1	0.132	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:57	4/23/20 14:57		20	482	mg/L	10.00	20	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/20/20 16:21	4/20/20 16:21			893.72	uS/cm			FA
pH	4/20/20 16:21	4/20/20 16:21			5.99	SU			FA
Temperature	4/20/20 16:21	4/20/20 16:21			21.41	C			FA
Turbidity	4/20/20 16:21	4/20/20 16:21			0.38	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 16:25
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BA07499

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 16:25
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BA07499

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP
Collected: 4/20/20 17:23
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07500

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:25		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 13:17		10.15	91.2	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:25		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:16		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:16		1.015	0.00751	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 11:16		1.015	0.109	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:16		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:16		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:16		1.015	0.00396	mg/L	0.002	0.005	J
* Lead, Total	4/28/20 08:00	4/30/20 11:16		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:16		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	371	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:11	4/27/20 10:11		2	24.5	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:44	4/27/20 13:44		1	0.112	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:58	4/23/20 14:58		1	10.5	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/20/20 17:20	4/20/20 17:20			485.37	uS/cm			FA
pH	4/20/20 17:20	4/20/20 17:20			6.40	SU			FA
Temperature	4/20/20 17:20	4/20/20 17:20			19.78	C			FA
Turbidity	4/20/20 17:20	4/20/20 17:20			0.68	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 17:23
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BA07500

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 17:23
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BA07500

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 4/21/20 08:17
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07501

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:28		1.015	0.140	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:20		10.15	133	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:28		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:19		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:19		1.015	0.0130	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 11:19		1.015	0.0335	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:19		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:19		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:19		1.015	0.0194	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:19		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	878	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:07	4/27/20 10:07		1	12.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:45	4/27/20 13:45		1	0.126	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 14:59	4/23/20 14:59		20	522	mg/L	10.00	20	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/21/20 08:14	4/21/20 08:14			1118.82	uS/cm			FA
pH	4/21/20 08:14	4/21/20 08:14			5.99	SU			FA
Temperature	4/21/20 08:14	4/21/20 08:14			19.54	C			FA
Turbidity	4/21/20 08:14	4/21/20 08:14			2.25	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 08:17
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BA07501

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 08:17
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BA07501

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP
Collected: 4/21/20 09:06
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07502

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:31		1.015	0.347	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:23		10.15	90.5	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:31		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:22		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:22		1.015	0.0219	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 11:22		1.015	0.0206	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:22		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:22		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:22		1.015	0.206	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:22		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	1530	mg/L		100	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:08	4/27/20 10:08		1	19.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:46	4/27/20 13:46		1	0.120	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 15:00	4/23/20 15:00		32	874	mg/L	16.00	32	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/21/20 09:03	4/21/20 09:03			1623.14	uS/cm			FA
pH	4/21/20 09:03	4/21/20 09:03			5.72	SU			FA
Temperature	4/21/20 09:03	4/21/20 09:03			19.11	C			FA
Turbidity	4/21/20 09:03	4/21/20 09:03			0.7	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BA07502

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BA07502

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07502	Solids, Dissolved	mg/L	0.0000	25			1510	50.0	40 to 60			0.658	5
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-1 DUP

Location Code: WMWGREAP
Collected: 4/21/20 09:06
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07503

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:34		1.015	0.348	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:26		10.15	84.8	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:34		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:24		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:24		1.015	0.0226	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 11:24		1.015	0.0203	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:24		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:24		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:24		1.015	0.196	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:24		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 11:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	1540	mg/L		100	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:12	4/27/20 10:12		1	19.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 13:48	4/27/20 13:48		1	0.0966	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/23/20 15:01	4/23/20 15:01		40	870	mg/L	20.00	40	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/21/20 09:03	4/21/20 09:03			1623.14	uS/cm			FA
pH	4/21/20 09:03	4/21/20 09:03			5.72	SU			FA
Temperature	4/21/20 09:03	4/21/20 09:03			19.11	C			FA
Turbidity	4/21/20 09:03	4/21/20 09:03			0.7	NTU			FA

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

Comments: Precision for Fluoride is invalid due to sample concentration. LBM 4/29/2020

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-1 DUP

Laboratory ID Number: BA07503

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07503	Molybdenum, Total	mg/L	0.00000647	0.0001474	0.10	0.0968	0.0954	0.102	0.085 to 0.115	96.8	70 to 130	1.46	20
BA07503	Beryllium, Total	mg/L	0.0000605	0.00088	0.10	0.0969	0.0957	0.0941	0.085 to 0.115	96.9	70 to 130	1.25	20
BA07503	Antimony, Total	mg/L	0.000269	0.00066	0.10	0.0992	0.0987	0.0992	0.085 to 0.115	99.2	70 to 130	0.505	20
BA07503	Arsenic, Total	mg/L	0.0000339	0.0001474	0.10	0.117	0.115	0.0986	0.085 to 0.115	94.4	70 to 130	1.72	20
BA07503	Barium, Total	mg/L	-0.00000587	0.0002	0.10	0.117	0.113	0.101	0.085 to 0.115	96.7	70 to 130	3.48	20
BA07503	Lithium, Total	mg/L	0.0000306	0.0154	0.20	0.226	0.226	0.203	0.17 to 0.23	113	70 to 130	0.00	20
BA07503	Lead, Total	mg/L	0.00000434	0.0001474	0.10	0.0981	0.0972	0.0999	0.085 to 0.115	98.1	70 to 130	0.922	20
BA07503	Calcium, Total	mg/L	-0.0111	0.1518	5.00	90.0	89.9	5.11	4.25 to 5.75	104	70 to 130	0.111	20
BA07503	Cadmium, Total	mg/L	0.00000401	0.0001474	0.10	0.0982	0.0961	0.103	0.085 to 0.115	98.2	70 to 130	2.16	20
BA07503	Thallium, Total	mg/L	0.00000239	0.0001474	0.10	0.110	0.109	0.104	0.085 to 0.115	110	70 to 130	0.913	20
BA07503	Boron, Total	mg/L	-0.00382	0.0650254	1.00	1.35	1.36	1.05	0.85 to 1.15	100	70 to 130	0.738	20
BA07503	Cobalt, Total	mg/L	-0.00000234	0.0001474	0.10	0.296	0.296	0.102	0.085 to 0.115	100	70 to 130	0.00	20
BA07503	Chromium, Total	mg/L	-0.0000523	0.00044	0.10	0.0958	0.0942	0.101	0.085 to 0.115	95.8	70 to 130	1.68	20
BA07503	Mercury, Total by CVAA	mg/L	0.0000738	0.0005	0.004	0.00383	0.00388	0.00397	0.0034 to 0.0046	95.8	70 to 130	1.30	20
BA07503	Selenium, Total	mg/L	0.0000114	0.00066	0.10	0.0927	0.0930	0.101	0.085 to 0.115	92.7	70 to 130	0.323	20

Comments: Precision for Fluoride is invalid due to sample concentration. LBM 4/29/2020

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-1 DUP

Laboratory ID Number: BA07503

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5
BA07503	Fluoride	mg/L	0.0298	0.05	2.50	2.67	0.0713	2.62	2.25 to 2.75	103	80 to 120	30.1	20
BA07503	Chloride	mg/L	-0.0494	0.50	10.0	28.3	19.4	10.5	9 to 11	87.0	80 to 120	1.03	20
BA07503	Sulfate	mg/L	-0.0485	0.50	800	1740	882	18.7	18 to 22	109	80 to 120	1.37	20

Comments: Precision for Fluoride is invalid due to sample concentration. LBM 4/29/2020

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 4/21/20 10:16
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07504

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:55		1.015	0.872	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:35		10.15	51.0	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 12:55		1.015	0.166	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:45		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:45		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 11:45		1.015	0.0325	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:45		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:45		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:45		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:45		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 11:45		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:45		1.015	0.0947	mg/L	0.002	0.01	
* Selenium, Total	4/28/20 08:00	4/30/20 11:45		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:45		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	291	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:23	4/27/20 10:23		1	9.49	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:00	4/27/20 14:00		1	0.198	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:32	4/24/20 09:32		5	121	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/21/20 10:13	4/21/20 10:13			464.27	uS/cm			FA
pH	4/21/20 10:13	4/21/20 10:13			6.96	SU			FA
Temperature	4/21/20 10:13	4/21/20 10:13			17.64	C			FA
Turbidity	4/21/20 10:13	4/21/20 10:13			0.6	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 10:16
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BA07504

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 10:16
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BA07504

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP
Collected: 4/21/20 11:06
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07505

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 12:58		1.015	0.172	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 12:58		1.015	28.9	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 12:58		1.015	0.0924	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:48		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:48		1.015	0.00210	mg/L	0.001	0.005	J
* Barium, Total	4/28/20 08:00	4/30/20 11:48		1.015	0.0280	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:48		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:48		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:48		1.015	0.00236	mg/L	0.002	0.005	J
* Lead, Total	4/28/20 08:00	4/30/20 11:48		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:48		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	208	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:24	4/27/20 10:24		1	12.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:01	4/27/20 14:01		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:33	4/24/20 09:33		4	90.2	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/21/20 11:03	4/21/20 11:03			335.16	uS/cm			FA
pH	4/21/20 11:03	4/21/20 11:03			6.50	SU			FA
Temperature	4/21/20 11:03	4/21/20 11:03			17.83	C			FA
Turbidity	4/21/20 11:03	4/21/20 11:03			2.41	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 11:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BA07505

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 11:06
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BA07505

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 4/21/20 12:08
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07506

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:01		1.015	0.586	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:38		10.15	43.1	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:01		1.015	0.0782	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:50		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:50		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 11:50		1.015	0.0763	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:50		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:50		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:50		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 11:50		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:50		1.015	0.0562	mg/L	0.002	0.01	
* Selenium, Total	4/28/20 08:00	4/30/20 11:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:50		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	265	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:26	4/27/20 10:26		1	10.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:03	4/27/20 14:03		1	0.173	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:34	4/24/20 09:34		4	99.0	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/21/20 12:05	4/21/20 12:05			421.26	uS/cm			FA
pH	4/21/20 12:05	4/21/20 12:05			6.81	SU			FA
Temperature	4/21/20 12:05	4/21/20 12:05			21.66	C			FA
Turbidity	4/21/20 12:05	4/21/20 12:05			0.86	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 12:08
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BA07506

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 12:08
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BA07506

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP
Collected: 4/21/20 13:37
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07507

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:04		1.015	1.08	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:40		10.15	81.4	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:04		1.015	0.376	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:53		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:53		1.015	0.0101	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 11:53		1.015	0.156	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:53		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:53		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:53		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:53		1.015	0.0162	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:53		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:53		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:53		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:53		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	463	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:38	4/27/20 10:38		4	40.4	mg/L	2.00	4	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:04	4/27/20 14:04		1	0.147	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:35	4/24/20 09:35		3	59.7	mg/L	1.50	3	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/21/20 13:33	4/21/20 13:33			775.26	uS/cm			FA
pH	4/21/20 13:33	4/21/20 13:33			6.18	SU			FA
Temperature	4/21/20 13:33	4/21/20 13:33			19.23	C			FA
Turbidity	4/21/20 13:33	4/21/20 13:33			4.92	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 13:37
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BA07507

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 13:37
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BA07507

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 4/21/20 15:00
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07508

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:07		1.015	1.76	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:53		10.15	56.5	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:07		1.015	0.0174	mg/L	0.01	0.02	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:56		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:56		1.015	0.00417	mg/L	0.001	0.005	J
* Barium, Total	4/28/20 08:00	4/30/20 11:56		1.015	0.108	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:56		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:56		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:56		1.015	0.0359	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:56		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:56		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	299	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:28	4/27/20 10:28		1	19.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:05	4/27/20 14:05		1	0.0701	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:37	4/24/20 09:37		1	12.4	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/21/20 14:56	4/21/20 14:56			504.29	uS/cm			FA
pH	4/21/20 14:56	4/21/20 14:56			6.01	SU			FA
Temperature	4/21/20 14:56	4/21/20 14:56			18.92	C			FA
Turbidity	4/21/20 14:56	4/21/20 14:56			6.56	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 15:00
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BA07508

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 15:00
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BA07508

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP
Collected: 4/21/20 16:37
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07509

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:10		1.015	0.272	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:10		1.015	36.8	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 13:10		1.015	0.0733	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 11:58		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 11:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 11:58		1.015	0.0437	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 11:58		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 11:58		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 11:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 11:58		1.015	0.00799	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 11:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 11:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 11:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 11:58		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	222	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:29	4/27/20 10:29		1	11.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:06	4/27/20 14:06		1	0.0750	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:38	4/24/20 09:38		4	90.8	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/21/20 16:34	4/21/20 16:34			361.92	uS/cm			FA
pH	4/21/20 16:34	4/21/20 16:34			6.28	SU			FA
Temperature	4/21/20 16:34	4/21/20 16:34			18.91	C			FA
Turbidity	4/21/20 16:34	4/21/20 16:34			4.16	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 16:37
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BA07509

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 16:37
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BA07509

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 4/21/20 16:56
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07510

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:13		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 13:13		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	4/24/20 11:20	4/27/20 13:13		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:01		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:30	4/27/20 10:30		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:07	4/27/20 14:07		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:39	4/24/20 09:39		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 4/21/20 16:56
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07510

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 4/21/20 16:56
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07510

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP
Collected: 4/20/20 12:50
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07511

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:16		1.015	0.426	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:56		10.15	64.9	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:16		1.015	0.148	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:04		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:04		1.015	0.00153	mg/L	0.001	0.005	J
* Barium, Total	4/28/20 08:00	4/30/20 12:04		1.015	0.0898	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:04		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:04		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:04		1.015	0.00451	mg/L	0.002	0.005	J
* Lead, Total	4/28/20 08:00	4/30/20 12:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:04		1.015	0.0703	mg/L	0.002	0.01	
* Selenium, Total	4/28/20 08:00	4/30/20 12:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:04		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	369	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:32	4/27/20 10:32		1	10.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:09	4/27/20 14:09		1	0.176	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:40	4/24/20 09:40		8	157	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/20/20 12:45	4/20/20 12:45			622.05	uS/cm			FA
pH	4/20/20 12:45	4/20/20 12:45			7.14	SU			FA
Temperature	4/20/20 12:45	4/20/20 12:45			21.02	C			FA
Turbidity	4/20/20 12:45	4/20/20 12:45			4.07	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 12:50
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BA07511

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 12:50
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BA07511

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-45H DUP

Location Code: WMWGREAP
Collected: 4/20/20 12:50
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07512

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:19		1.015	0.425	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:59		10.15	64.9	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:19		1.015	0.147	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:06		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:06		1.015	0.00142	mg/L	0.001	0.005	J
* Barium, Total	4/28/20 08:00	4/30/20 12:06		1.015	0.0877	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:06		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:06		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:06		1.015	0.00439	mg/L	0.002	0.005	J
* Lead, Total	4/28/20 08:00	4/30/20 12:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:06		1.015	0.0696	mg/L	0.002	0.01	
* Selenium, Total	4/28/20 08:00	4/30/20 12:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:06		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	371	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:33	4/27/20 10:33		1	10.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:10	4/27/20 14:10		1	0.187	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:41	4/24/20 09:41		8	144	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/20/20 12:45	4/20/20 12:45			622.05	uS/cm			FA
pH	4/20/20 12:45	4/20/20 12:45			7.14	SU			FA
Temperature	4/20/20 12:45	4/20/20 12:45			21.02	C			FA
Turbidity	4/20/20 12:45	4/20/20 12:45			4.07	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 12:50
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-45H DUP

Laboratory ID Number: BA07512

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 12:50
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-45H DUP

Laboratory ID Number: BA07512

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 4/20/20 14:10
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07513

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:22		1.015	0.642	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 13:22		1.015	40.3	mg/L	0.1	0.5	RA
* Lithium, Total	4/24/20 11:20	4/27/20 13:22		1.015	0.201	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:09		1.015	0.00338	mg/L	0.0008	0.003	
* Arsenic, Total	4/28/20 08:00	4/30/20 12:09		1.015	0.00181	mg/L	0.001	0.005	J
* Barium, Total	4/28/20 08:00	4/30/20 12:09		1.015	0.104	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:09		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:09		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:09		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 12:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:09		1.015	0.0924	mg/L	0.002	0.01	
* Selenium, Total	4/28/20 08:00	4/30/20 12:09		1.015	0.0125	mg/L	0.002	0.01	
* Thallium, Total	4/28/20 08:00	4/30/20 12:09		1.015	0.000433	mg/L	0.0002	0.001	J
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 07:37	4/24/20 12:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	201	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:34	4/27/20 10:34		1	4.70	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:11	4/27/20 14:11		1	0.0844	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 09:43	4/24/20 09:43		8	76.5	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/20/20 14:07	4/20/20 14:07			348.63	uS/cm			FA
pH	4/20/20 14:07	4/20/20 14:07			6.68	SU			FA
Temperature	4/20/20 14:07	4/20/20 14:07			17.24	C			FA
Turbidity	4/20/20 14:07	4/20/20 14:07			2.49	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 14:10
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BA07513

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0993	0.0980	0.0976	0.085 to 0.115	99.3	70 to 130	1.32	20
BA07513	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.100	0.0981	0.102	0.085 to 0.115	100	70 to 130	1.92	20
BA07513	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.101	0.0988	0.0985	0.085 to 0.115	99.2	70 to 130	2.20	20
BA07513	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.100	0.0988	0.102	0.085 to 0.115	100	70 to 130	1.21	20
BA07513	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.407	0.411	0.199	0.17 to 0.23	103	70 to 130	0.978	20
BA07513	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.113	0.115	0.103	0.085 to 0.115	100	70 to 130	1.75	20
BA07513	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.108	0.104	0.106	0.085 to 0.115	108	70 to 130	3.77	20
BA07513	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.66	1.68	1.04	0.85 to 1.15	102	70 to 130	1.20	20
BA07513	Calcium, Total	mg/L	-0.00833	0.1518	5.00	43.6	44.0	5.09	4.25 to 5.75	66.0	70 to 130	0.913	20
BA07513	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.191	0.189	0.101	0.085 to 0.115	98.6	70 to 130	1.05	20
BA07513	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.203	0.203	0.101	0.085 to 0.115	99.0	70 to 130	0.00	20
BA07513	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0992	0.0994	0.100	0.085 to 0.115	99.2	70 to 130	0.201	20
BA07513	Mercury, Total by CVAA	mg/L	0.0000721	0.0005	0.004	0.00407	0.00408	0.00404	0.0034 to 0.0046	102	70 to 130	0.245	20
BA07513	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0978	0.0975	0.0982	0.085 to 0.115	97.8	70 to 130	0.307	20
BA07513	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.101	0.0998	0.0978	0.085 to 0.115	97.6	70 to 130	1.20	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 14:10
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BA07513

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07513	Fluoride	mg/L	0.0306	0.05	2.50	2.64	0.102	2.64	2.25 to 2.75	102	80 to 120	18.9	20
BA07513	Sulfate	mg/L	-0.481	0.50	160	225	78.2	18.4	18 to 22	92.8	80 to 120	2.20	20
BA07513	Chloride	mg/L	-0.00898	0.50	10.0	15.1	4.77	10.5	9 to 11	104	80 to 120	1.48	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 4/20/20 15:30
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07514

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:36		1.015	0.821	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 14:11		10.15	88.2	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:36		1.015	0.628	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:25		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 12:25		1.015	0.0282	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:25		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:25		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:25		1.015	0.0132	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 12:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 12:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:25		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 12:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	534	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:49	4/27/20 10:49		1	10.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:22	4/27/20 14:22		1	0.0952	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:29	4/24/20 10:29		16	247	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/20/20 15:24	4/20/20 15:24			807.17	uS/cm			FA
pH	4/20/20 15:24	4/20/20 15:24			5.63	SU			FA
Temperature	4/20/20 15:24	4/20/20 15:24			18.01	C			FA
Turbidity	4/20/20 15:24	4/20/20 15:24			4.86	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 15:30
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BA07514

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 15:30
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BA07514

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 4/20/20 16:15
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07515

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:39		1.015	0.791	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 14:14		10.15	61.0	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:39		1.015	0.604	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:27		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 12:27		1.015	0.0338	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:27		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:27		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:27		1.015	0.0189	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 12:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 12:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:27		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 12:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	369	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:51	4/27/20 10:51		1	12.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:23	4/27/20 14:23		1	0.140	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:30	4/24/20 10:30		8	142	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/20/20 16:13	4/20/20 16:13			601.31	uS/cm			FA
pH	4/20/20 16:13	4/20/20 16:13			6.16	SU			FA
Temperature	4/20/20 16:13	4/20/20 16:13			19.02	C			FA
Turbidity	4/20/20 16:13	4/20/20 16:13			2.52	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 16:15
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BA07515

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 16:15
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BA07515

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 4/20/20 17:43
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07516

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:42		1.015	1.83	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 14:18		10.15	90.8	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:42		1.015	0.620	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:30		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:30		1.015	0.105	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 12:30		1.015	0.0921	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:30		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:30		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:30		1.015	0.0146	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 12:30		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 12:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:30		1.015	0.000320	mg/L	0.0002	0.001	J
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 12:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	461	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:52	4/27/20 10:52		1	12.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:24	4/27/20 14:24		1	0.245	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:31	4/24/20 10:31		2	49.6	mg/L	1.00	2	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/20/20 17:39	4/20/20 17:39			832.49	uS/cm			FA
pH	4/20/20 17:39	4/20/20 17:39			6.43	SU			FA
Temperature	4/20/20 17:39	4/20/20 17:39			19.30	C			FA
Turbidity	4/20/20 17:39	4/20/20 17:39			9.86	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/20/20 17:43
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BA07516

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/20/20 17:43
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BA07516

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 4/20/20 18:00
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07517

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:45		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 13:45		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	4/24/20 11:20	4/27/20 13:45		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:32		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/23/20 15:04	4/27/20 14:35		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:53	4/27/20 10:53		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:25	4/27/20 14:25		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:32	4/24/20 10:32		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 4/20/20 18:00
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07517

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 4/20/20 18:00
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07517

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20
BA07501	Solids, Dissolved	mg/L	0.0000	25			876	51.0	40 to 60			0.114	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 4/21/20 09:00
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07518

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:48		1.015	1.51	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 14:21		10.15	81.8	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:48		1.015	0.386	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:35		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:35		1.015	0.0478	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 12:35		1.015	0.0926	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:35		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:35		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:35		1.015	0.0173	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 12:35		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 12:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:35		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	429	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:00	4/27/20 11:00		2	26.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:27	4/27/20 14:27		1	0.171	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:34	4/24/20 10:34		1	19.2	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/21/20 08:56	4/21/20 08:56			798.13	uS/cm			FA
pH	4/21/20 08:56	4/21/20 08:56			6.31	SU			FA
Temperature	4/21/20 08:56	4/21/20 08:56			19.90	C			FA
Turbidity	4/21/20 08:56	4/21/20 08:56			4.91	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:00
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BA07518

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:00
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BA07518

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 4/21/20 09:55
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07519

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:51		1.015	1.97	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 14:24		10.15	74.4	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:51		1.015	0.629	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:38		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:38		1.015	0.689	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 12:38		1.015	0.306	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:38		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:38		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:38		1.015	0.0158	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 12:38		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:38		1.015	0.0694	mg/L	0.002	0.01	
* Selenium, Total	4/28/20 08:00	4/30/20 12:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:38		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	490	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:55	4/27/20 10:55		1	11.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:28	4/27/20 14:28		1	0.565	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:35	4/24/20 10:35		4	78.0	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/21/20 09:51	4/21/20 09:51			897.96	uS/cm			FA
pH	4/21/20 09:51	4/21/20 09:51			6.61	SU			FA
Temperature	4/21/20 09:51	4/21/20 09:51			20.12	C			FA
Turbidity	4/21/20 09:51	4/21/20 09:51			8.53	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:55
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BA07519

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 09:55
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BA07519

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 4/21/20 11:25
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07520

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:54		1.015	1.55	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 14:27		10.15	113	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 13:54		1.015	0.672	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:40		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:40		1.015	0.0178	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 12:40		1.015	0.102	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:40		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:40		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:40		1.015	0.0339	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 12:40		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:40		1.015	0.0141	mg/L	0.002	0.01	
* Selenium, Total	4/28/20 08:00	4/30/20 12:40		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:40		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	628	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:57	4/27/20 10:57		1	14.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:29	4/27/20 14:29		1	0.254	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:36	4/24/20 10:36		10	168	mg/L	5.00	10	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/21/20 11:23	4/21/20 11:23			1037.01	uS/cm			FA
pH	4/21/20 11:23	4/21/20 11:23			6.31	SU			FA
Temperature	4/21/20 11:23	4/21/20 11:23			19.66	C			FA
Turbidity	4/21/20 11:23	4/21/20 11:23			9.33	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 11:25
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BA07520

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 11:25
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BA07520

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP
Collected: 4/21/20 13:00
Customer ID:
Submittal Date: 4/22/20 13:47

Laboratory ID Number: BA07521

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 13:57		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 13:57		1.015	0.287	mg/L	0.1	0.5	J
* Lithium, Total	4/24/20 11:20	4/27/20 13:57		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 12:43		1.015	0.0542	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:43		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:58	4/27/20 10:58		1	1.09	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:30	4/27/20 14:30		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:37	4/24/20 10:37		1	0.694	mg/L	0.50	1	J
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/21/20 12:55	4/21/20 12:55			19.68	uS/cm			FA
pH	4/21/20 12:55	4/21/20 12:55			3.90	SU			FA
Temperature	4/21/20 12:55	4/21/20 12:55			18.11	C			FA
Turbidity	4/21/20 12:55	4/21/20 12:55			4.04	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 13:00
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BA07521

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 13:00
Customer ID:
Delivery Date: 4/22/20 13:47

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BA07521

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 4/21/20 13:55
Customer ID:
Submittal Date: 4/22/20 13:48

Laboratory ID Number: BA07522

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:00		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:00		1.015	2.41	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 14:00		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:46		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 12:46		1.015	0.219	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:46		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:46		1.015	0.000520	mg/L	0.0003	0.001	J
* Chromium, Total	4/28/20 08:00	4/30/20 12:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:46		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 12:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 12:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:46		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/24/20 15:12	4/28/20 14:07		1	36.0	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 10:59	4/27/20 10:59		1	1.32	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:32	4/27/20 14:32		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:39	4/24/20 10:39		1	9.40	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/21/20 13:53	4/21/20 13:53			52.68	uS/cm			FA
pH	4/21/20 13:53	4/21/20 13:53			4.07	SU			FA
Temperature	4/21/20 13:53	4/21/20 13:53			18.20	C			FA
Turbidity	4/21/20 13:53	4/21/20 13:53			3.07	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 13:55
Customer ID:
Delivery Date: 4/22/20 13:48

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BA07522

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 13:55
Customer ID:
Delivery Date: 4/22/20 13:48

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BA07522

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07507	Solids, Dissolved	mg/L	0.0000	25			472	50.0	40 to 60			0.963	5
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 4/21/20 14:40
Customer ID:
Submittal Date: 4/22/20 13:48

Laboratory ID Number: BA07523

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:03		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:03		1.015	1.15	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 14:03		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 12:48		1.015	0.0827	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 12:48		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	30.7	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:01	4/27/20 11:01		1	1.90	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:33	4/27/20 14:33		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:40	4/24/20 10:40		1	2.21	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/21/20 14:39	4/21/20 14:39			36.33	uS/cm			FA
pH	4/21/20 14:39	4/21/20 14:39			4.29	SU			FA
Temperature	4/21/20 14:39	4/21/20 14:39			19.03	C			FA
Turbidity	4/21/20 14:39	4/21/20 14:39			3.04	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 14:40
Customer ID:
Delivery Date: 4/22/20 13:48

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BA07523

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07523	Thallium, Total	mg/L	0.00000259	0.0001474	0.10	0.107	0.107	0.106	0.085 to 0.115	107	70 to 130	0.00	20
BA07523	Molybdenum, Total	mg/L	0.00000251	0.0001474	0.10	0.0990	0.1000	0.101	0.085 to 0.115	99.0	70 to 130	1.01	20
BA07523	Chromium, Total	mg/L	0.0000225	0.00044	0.10	0.101	0.0993	0.102	0.085 to 0.115	101	70 to 130	1.70	20
BA07523	Lithium, Total	mg/L	0.0000873	0.0154	0.20	0.199	0.200	0.199	0.17 to 0.23	99.5	70 to 130	0.501	20
BA07523	Calcium, Total	mg/L	-0.00833	0.1518	5.00	6.26	6.23	5.09	4.25 to 5.75	102	70 to 130	0.480	20
BA07523	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.0989	0.100	0.100	0.085 to 0.115	98.9	70 to 130	1.11	20
BA07523	Cobalt, Total	mg/L	0.00000027	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	102	70 to 130	0.985	20
BA07523	Barium, Total	mg/L	0.00000648	0.0002	0.10	0.181	0.183	0.101	0.085 to 0.115	98.3	70 to 130	1.10	20
BA07523	Boron, Total	mg/L	-0.00399	0.0650254	1.00	1.04	1.04	1.04	0.85 to 1.15	104	70 to 130	0.00	20
BA07523	Arsenic, Total	mg/L	-0.00000735	0.0001474	0.10	0.0989	0.0974	0.0985	0.085 to 0.115	98.9	70 to 130	1.53	20
BA07523	Lead, Total	mg/L	0.00000750	0.0001474	0.10	0.0989	0.0962	0.0976	0.085 to 0.115	98.9	70 to 130	2.77	20
BA07523	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0990	0.0995	0.0978	0.085 to 0.115	99.0	70 to 130	0.504	20
BA07523	Selenium, Total	mg/L	0.0000487	0.00066	0.10	0.101	0.102	0.103	0.085 to 0.115	101	70 to 130	0.985	20
BA07523	Beryllium, Total	mg/L	0.0000526	0.00088	0.10	0.0954	0.0979	0.0982	0.085 to 0.115	95.4	70 to 130	2.59	20
BA07523	Mercury, Total by CVAA	mg/L	0.0000686	0.0005	0.004	0.00315	0.00369	0.00401	0.0034 to 0.0046	78.8	70 to 130	15.8	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 14:40
Customer ID:
Delivery Date: 4/22/20 13:48

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BA07523

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07523	Sulfate	mg/L	-0.188	0.50	20.0	19.8	2.23	18.4	18 to 22	88.0	80 to 120	0.901	20
BA07523	Chloride	mg/L	-0.00799	0.50	10.0	12.3	1.89	10.4	9 to 11	104	80 to 120	0.528	20
BA07523	Fluoride	mg/L	0.0459	0.05	2.50	2.42	0.0333	2.65	2.25 to 2.75	96.8	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP
Collected: 4/21/20 15:20
Customer ID:
Submittal Date: 4/22/20 13:48

Laboratory ID Number: BA07524

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:24		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:24		1.015	3.83	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 14:24		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:09		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:09		1.015	0.0439	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:09		1.015	0.000756	mg/L	0.0006	0.003	J
* Cadmium, Total	4/28/20 08:00	4/30/20 13:09		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:09		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:09		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	39.3	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:13	4/27/20 11:13		1	2.04	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:44	4/27/20 14:44		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:53	4/24/20 10:53		1	6.28	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/21/20 15:18	4/21/20 15:18			44.30	uS/cm			FA
pH	4/21/20 15:18	4/21/20 15:18			5.30	SU			FA
Temperature	4/21/20 15:18	4/21/20 15:18			18.85	C			FA
Turbidity	4/21/20 15:18	4/21/20 15:18			2.99	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 15:20
Customer ID:
Delivery Date: 4/22/20 13:48

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BA07524

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 15:20
Customer ID:
Delivery Date: 4/22/20 13:48

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BA07524

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP
Collected: 4/21/20 16:35
Customer ID:
Submittal Date: 4/22/20 13:48

Laboratory ID Number: BA07525

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:27		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:27		1.015	30.8	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 14:27		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:12		1.015	0.0296	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:12		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	107	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:14	4/27/20 11:14		1	1.08	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:45	4/27/20 14:45		1	0.0950	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:54	4/24/20 10:54		1	10.2	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/21/20 16:30	4/21/20 16:30			170.50	uS/cm			FA
pH	4/21/20 16:30	4/21/20 16:30			6.26	SU			FA
Temperature	4/21/20 16:30	4/21/20 16:30			18.37	C			FA
Turbidity	4/21/20 16:30	4/21/20 16:30			3.03	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/21/20 16:35
Customer ID:
Delivery Date: 4/22/20 13:48

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BA07525

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/21/20 16:35
Customer ID:
Delivery Date: 4/22/20 13:48

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BA07525

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 4/22/20 09:26
Customer ID:
Submittal Date: 4/23/20 12:32

Laboratory ID Number: BA07720

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:30		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:30		1.015	9.87	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 14:30		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:15		1.015	0.0133	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:15		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	52.7	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:16	4/27/20 11:16		1	4.00	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:46	4/27/20 14:46		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:55	4/24/20 10:55		1	2.51	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/22/20 09:24	4/22/20 09:24			71.57	uS/cm			FA
pH	4/22/20 09:24	4/22/20 09:24			5.92	SU			FA
Temperature	4/22/20 09:24	4/22/20 09:24			19.15	C			FA
Turbidity	4/22/20 09:24	4/22/20 09:24			0.54	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 09:26
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BA07720

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 09:26
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BA07720

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07509	Solids, Dissolved	mg/L	1.00	25			223	58.0	40 to 60			0.225	5
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 4/22/20 10:26
Customer ID:
Submittal Date: 4/23/20 12:32

Laboratory ID Number: BA07721

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:33		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:33		1.015	3.15	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 14:33		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:17		1.015	0.102	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:17		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	62.7	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:17	4/27/20 11:17		1	5.66	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:47	4/27/20 14:47		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:56	4/24/20 10:56		1	9.64	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/22/20 10:23	4/22/20 10:23			103.98	uS/cm			FA
pH	4/22/20 10:23	4/22/20 10:23			4.71	SU			FA
Temperature	4/22/20 10:23	4/22/20 10:23			17.68	C			FA
Turbidity	4/22/20 10:23	4/22/20 10:23			0.33	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 10:26
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BA07721

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 10:26
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BA07721

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 4/22/20 10:57
Customer ID:
Submittal Date: 4/23/20 12:32

Laboratory ID Number: BA07722

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:36		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:36		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	4/24/20 11:20	4/27/20 14:36		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:20		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:18	4/27/20 11:18		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:48	4/27/20 14:48		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:58	4/24/20 10:58		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 4/22/20 10:57
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07722

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 4/22/20 10:57
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07722

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP
Collected: 4/22/20 11:25
Customer ID:
Submittal Date: 4/23/20 12:32

Laboratory ID Number: BA07723

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:39		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:39		1.015	5.92	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 14:39		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:23		1.015	0.0285	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:23		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	49.3	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:19	4/27/20 11:19		1	5.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:50	4/27/20 14:50		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 10:59	4/24/20 10:59		1	3.78	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/22/20 11:23	4/22/20 11:23			67.64	uS/cm			FA
pH	4/22/20 11:23	4/22/20 11:23			5.75	SU			FA
Temperature	4/22/20 11:23	4/22/20 11:23			17.16	C			FA
Turbidity	4/22/20 11:23	4/22/20 11:23			0.45	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 11:25
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BA07723

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 11:25
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BA07723

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 4/22/20 12:34
Customer ID:
Submittal Date: 4/23/20 12:32

Laboratory ID Number: BA07724

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:42		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:42		1.015	12.0	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 14:42		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:25		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:25		1.015	0.0578	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:25		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:25		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:25		1.015	0.00675	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 13:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:25		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	114	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:20	4/27/20 11:20		1	7.60	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:51	4/27/20 14:51		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:00	4/24/20 11:00		1	26.8	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/22/20 12:31	4/22/20 12:31			164.68	uS/cm			FA
pH	4/22/20 12:31	4/22/20 12:31			5.45	SU			FA
Temperature	4/22/20 12:31	4/22/20 12:31			20.44	C			FA
Turbidity	4/22/20 12:31	4/22/20 12:31			0.5	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 12:34
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BA07724

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 12:34
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BA07724

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 4/22/20 13:40
Customer ID:
Submittal Date: 4/23/20 12:32

Laboratory ID Number: BA07725

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:45		1.015	1.23	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 15:40		10.15	62.9	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 14:45		1.015	0.123	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:28		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:28		1.015	0.0121	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 13:28		1.015	0.186	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:28		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:28		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:28		1.015	0.0233	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 13:28		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:28		1.015	0.00747	mg/L	0.002	0.01	J
* Selenium, Total	4/28/20 08:00	4/30/20 13:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:28		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	338	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:22	4/27/20 11:22		1	17.6	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:52	4/27/20 14:52		1	0.224	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:07	4/24/20 11:07		2	63.2	mg/L	1.00	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/22/20 13:36	4/22/20 13:36			422.35	uS/cm			FA
pH	4/22/20 13:36	4/22/20 13:36			6.44	SU			FA
Temperature	4/22/20 13:36	4/22/20 13:36			20.48	C			FA
Turbidity	4/22/20 13:36	4/22/20 13:36			3.19	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 13:40
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BA07725

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 13:40
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BA07725

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP
Collected: 4/22/20 14:27
Customer ID:
Submittal Date: 4/23/20 12:32

Laboratory ID Number: BA07726

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:48		1.015	0.447	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 14:48		1.015	36.7	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 14:48		1.015	0.126	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:31		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:31		1.015	0.00616	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 13:31		1.015	0.0967	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:31		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:31		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:31		1.015	0.0319	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 13:31		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:31		1.015	0.0147	mg/L	0.002	0.01	
* Selenium, Total	4/28/20 08:00	4/30/20 13:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:31		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	249	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:28	4/27/20 11:28		2	20.5	mg/L	1.00	2	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:53	4/27/20 14:53		1	0.167	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:09	4/24/20 11:09		2	58.7	mg/L	1.00	2	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	4/22/20 14:24	4/22/20 14:24			415.21	uS/cm			FA
pH	4/22/20 14:24	4/22/20 14:24			6.26	SU			FA
Temperature	4/22/20 14:24	4/22/20 14:24			20.80	C			FA
Turbidity	4/22/20 14:24	4/22/20 14:24			0.53	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 14:27
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BA07726

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 14:27
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BA07726

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank

Location Code: WMWGREAPEB
Collected: 4/22/20 14:43
Customer ID:
Submittal Date: 4/23/20 12:32

Laboratory ID Number: BA07727

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 14:51		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 14:51		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	4/24/20 11:20	4/27/20 14:51		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:33		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 13:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:24	4/27/20 11:24		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 14:54	4/27/20 14:54		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:04	4/24/20 11:04		1	Not Detected	mg/L	0.50	1	U

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

Comments: Precision for Mercury is out of specification limit. LBM 4/29/2020

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 4/22/20 14:43
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: BA07727

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.100	0.0995	0.101	0.085 to 0.115	100	70 to 130	0.501	20
BA07727	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.0973	0.0958	0.0981	0.085 to 0.115	97.3	70 to 130	1.55	20
BA07727	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0964	0.0954	0.0967	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0995	0.0984	0.102	0.085 to 0.115	99.5	70 to 130	1.11	20
BA07727	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.101	0.101	0.102	0.085 to 0.115	101	70 to 130	0.00	20
BA07727	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.02	1.02	1.05	0.85 to 1.15	102	70 to 130	0.00	20
BA07727	Mercury, Total by CVAA	mg/L	0.0000687	0.0005	0.004	0.00416	0.00320	0.00409	0.0034 to 0.0046	104	70 to 130	26.1	20
BA07727	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.197	0.198	0.204	0.17 to 0.23	98.5	70 to 130	0.506	20
BA07727	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.100	0.101	0.0997	0.085 to 0.115	100	70 to 130	0.995	20
BA07727	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0964	0.0954	0.0965	0.085 to 0.115	96.4	70 to 130	1.04	20
BA07727	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.101	0.1000	0.102	0.085 to 0.115	101	70 to 130	0.995	20
BA07727	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.101	0.0990	0.101	0.085 to 0.115	101	70 to 130	2.00	20
BA07727	Calcium, Total	mg/L	-0.0122	0.1518	5.00	5.05	5.07	5.23	4.25 to 5.75	101	70 to 130	0.395	20
BA07727	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0968	0.0980	0.0967	0.085 to 0.115	96.8	70 to 130	1.23	20
BA07727	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.106	0.103	0.101	0.085 to 0.115	106	70 to 130	2.87	20

Comments: Precision for Mercury is out of specification limit. LBM 4/29/2020

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 4/22/20 14:43
Customer ID:
Delivery Date: 4/23/20 12:32

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: BA07727

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07727	Sulfate	mg/L	-0.378	0.50	20.0	18.1	-0.421	18.2	18 to 22	90.5	80 to 120	0.00	20
BA07727	Chloride	mg/L	-0.0177	0.50	10.0	10.0	0.0401	10.5	9 to 11	100	80 to 120	0.00	20
BA07727	Fluoride	mg/L	0.0414	0.05	2.50	2.52	0.0357	2.63	2.25 to 2.75	101	80 to 120	0.00	20
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5

Comments: Precision for Mercury is out of specification limit. LBM 4/29/2020

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 4/22/20 09:30
Customer ID:
Submittal Date: 4/23/20 12:31

Laboratory ID Number: BA07728

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 15:05		1.015	0.104	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 15:05		1.015	11.3	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 15:05		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:49		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:49		1.015	0.110	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:49		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:49		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:49		1.015	0.0133	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 13:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:49		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 14:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	195	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:39	4/27/20 11:39		1	17.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 15:06	4/27/20 15:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:41	4/24/20 11:41		4	76.1	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/22/20 09:26	4/22/20 09:26			311.11	uS/cm			FA
pH	4/22/20 09:26	4/22/20 09:26			5.26	SU			FA
Temperature	4/22/20 09:26	4/22/20 09:26			20.13	C			FA
Turbidity	4/22/20 09:26	4/22/20 09:26			3.2	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 09:30
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BA07728

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0954	0.0940	0.102	0.085 to 0.115	95.4	70 to 130	1.48	20
BA07735	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.119	0.118	0.102	0.085 to 0.115	94.2	70 to 130	0.844	20
BA07735	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0971	0.0995	0.101	0.085 to 0.115	97.1	70 to 130	2.44	20
BA07735	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0924	0.0922	0.0965	0.085 to 0.115	92.4	70 to 130	0.217	20
BA07735	Calcium, Total	mg/L	-0.0122	0.1518	5.00	183	181	5.23	4.25 to 5.75	160	70 to 130	1.10	20
BA07735	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.0968	0.0962	0.0997	0.085 to 0.115	96.8	70 to 130	0.622	20
BA07735	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.24	1.25	1.05	0.85 to 1.15	105	70 to 130	0.803	20
BA07735	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0985	0.101	0.0967	0.085 to 0.115	98.5	70 to 130	2.51	20
BA07735	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.104	0.106	0.0981	0.085 to 0.115	96.3	70 to 130	1.90	20
BA07735	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.129	0.131	0.102	0.085 to 0.115	96.3	70 to 130	1.54	20
BA07735	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.0957	0.0987	0.101	0.085 to 0.115	95.7	70 to 130	3.09	20
BA07735	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.108	0.106	0.101	0.085 to 0.115	108	70 to 130	1.87	20
BA07735	Mercury, Total by CVAA	mg/L	0.0000709	0.0005	0.004	0.00391	0.00372	0.00409	0.0034 to 0.0046	97.8	70 to 130	4.98	20
BA07735	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.244	0.244	0.204	0.17 to 0.23	115	70 to 130	0.00	20
BA07735	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0958	0.0951	0.0967	0.085 to 0.115	95.8	70 to 130	0.733	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 09:30
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BA07728

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5
BA07735	Sulfate	mg/L	-0.526	0.50	800	1230	522	18.1	18 to 22	90.0	80 to 120	2.33	20
BA07735	Chloride	mg/L	-0.020	0.50	10.0	20.0	10.6	10.6	9 to 11	97.0	80 to 120	2.87	20
BA07735	Fluoride	mg/L	0.0275	0.05	2.50	2.86	0.165	2.64	2.25 to 2.75	107	80 to 120	17.7	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP
Collected: 4/22/20 10:30
Customer ID:
Submittal Date: 4/23/20 12:31

Laboratory ID Number: BA07729

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 15:08		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 15:08		1.015	31.4	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 15:08		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:52		1.015	0.0738	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:52		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 14:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	162	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:40	4/27/20 11:40		1	2.75	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 15:07	4/27/20 15:07		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:42	4/24/20 11:42		5	84.7	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/22/20 10:25	4/22/20 10:25			236.17	uS/cm			FA
pH	4/22/20 10:25	4/22/20 10:25			5.30	SU			FA
Temperature	4/22/20 10:25	4/22/20 10:25			18.88	C			FA
Turbidity	4/22/20 10:25	4/22/20 10:25			2.97	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 10:30
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BA07729

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0954	0.0940	0.102	0.085 to 0.115	95.4	70 to 130	1.48	20
BA07735	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.119	0.118	0.102	0.085 to 0.115	94.2	70 to 130	0.844	20
BA07735	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0924	0.0922	0.0965	0.085 to 0.115	92.4	70 to 130	0.217	20
BA07735	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0971	0.0995	0.101	0.085 to 0.115	97.1	70 to 130	2.44	20
BA07735	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.24	1.25	1.05	0.85 to 1.15	105	70 to 130	0.803	20
BA07735	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0985	0.101	0.0967	0.085 to 0.115	98.5	70 to 130	2.51	20
BA07735	Calcium, Total	mg/L	-0.0122	0.1518	5.00	183	181	5.23	4.25 to 5.75	160	70 to 130	1.10	20
BA07735	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.0968	0.0962	0.0997	0.085 to 0.115	96.8	70 to 130	0.622	20
BA07735	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.104	0.106	0.0981	0.085 to 0.115	96.3	70 to 130	1.90	20
BA07735	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.129	0.131	0.102	0.085 to 0.115	96.3	70 to 130	1.54	20
BA07735	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.0957	0.0987	0.101	0.085 to 0.115	95.7	70 to 130	3.09	20
BA07735	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.108	0.106	0.101	0.085 to 0.115	108	70 to 130	1.87	20
BA07735	Mercury, Total by CVAA	mg/L	0.0000709	0.0005	0.004	0.00391	0.00372	0.00409	0.0034 to 0.0046	97.8	70 to 130	4.98	20
BA07735	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.244	0.244	0.204	0.17 to 0.23	115	70 to 130	0.00	20
BA07735	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0958	0.0951	0.0967	0.085 to 0.115	95.8	70 to 130	0.733	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 10:30
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BA07729

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Sulfate	mg/L	-0.526	0.50	800	1230	522	18.1	18 to 22	90.0	80 to 120	2.33	20
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5
BA07735	Chloride	mg/L	-0.020	0.50	10.0	20.0	10.6	10.6	9 to 11	97.0	80 to 120	2.87	20
BA07735	Fluoride	mg/L	0.0275	0.05	2.50	2.86	0.165	2.64	2.25 to 2.75	107	80 to 120	17.7	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-24 DUP

Location Code: WMWGREAP
Collected: 4/22/20 10:30
Customer ID:
Submittal Date: 4/23/20 12:31

Laboratory ID Number: BA07730

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 15:11		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 15:11		1.015	32.8	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 15:11		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 13:54		1.015	0.0769	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:54		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 14:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/27/20 11:40	4/29/20 14:58		1	163	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:41	4/27/20 11:41		1	2.80	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 15:08	4/27/20 15:08		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:43	4/24/20 11:43		5	87.3	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/22/20 10:25	4/22/20 10:25			236.17	uS/cm			FA
pH	4/22/20 10:25	4/22/20 10:25			5.30	SU			FA
Temperature	4/22/20 10:25	4/22/20 10:25			18.88	C			FA
Turbidity	4/22/20 10:25	4/22/20 10:25			2.97	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 10:30
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-24 DUP

Laboratory ID Number: BA07730

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.119	0.118	0.102	0.085 to 0.115	94.2	70 to 130	0.844	20
BA07735	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0954	0.0940	0.102	0.085 to 0.115	95.4	70 to 130	1.48	20
BA07735	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0971	0.0995	0.101	0.085 to 0.115	97.1	70 to 130	2.44	20
BA07735	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0924	0.0922	0.0965	0.085 to 0.115	92.4	70 to 130	0.217	20
BA07735	Calcium, Total	mg/L	-0.0122	0.1518	5.00	183	181	5.23	4.25 to 5.75	160	70 to 130	1.10	20
BA07735	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.0968	0.0962	0.0997	0.085 to 0.115	96.8	70 to 130	0.622	20
BA07735	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.24	1.25	1.05	0.85 to 1.15	105	70 to 130	0.803	20
BA07735	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0985	0.101	0.0967	0.085 to 0.115	98.5	70 to 130	2.51	20
BA07735	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.104	0.106	0.0981	0.085 to 0.115	96.3	70 to 130	1.90	20
BA07735	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.129	0.131	0.102	0.085 to 0.115	96.3	70 to 130	1.54	20
BA07735	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.0957	0.0987	0.101	0.085 to 0.115	95.7	70 to 130	3.09	20
BA07735	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.108	0.106	0.101	0.085 to 0.115	108	70 to 130	1.87	20
BA07735	Mercury, Total by CVAA	mg/L	0.0000709	0.0005	0.004	0.00391	0.00372	0.00409	0.0034 to 0.0046	97.8	70 to 130	4.98	20
BA07735	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.244	0.244	0.204	0.17 to 0.23	115	70 to 130	0.00	20
BA07735	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0958	0.0951	0.0967	0.085 to 0.115	95.8	70 to 130	0.733	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 10:30
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-24 DUP

Laboratory ID Number: BA07730

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Sulfate	mg/L	-0.526	0.50	800	1230	522	18.1	18 to 22	90.0	80 to 120	2.33	20
BA07730	Solids, Dissolved	mg/L	1.00	25			163	58.0	40 to 60			0.00	5
BA07735	Chloride	mg/L	-0.020	0.50	10.0	20.0	10.6	10.6	9 to 11	97.0	80 to 120	2.87	20
BA07735	Fluoride	mg/L	0.0275	0.05	2.50	2.86	0.165	2.64	2.25 to 2.75	107	80 to 120	17.7	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 4/22/20 11:45
Customer ID:
Submittal Date: 4/23/20 12:31

Laboratory ID Number: BA07731

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 15:14		1.015	0.143	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 15:14		1.015	0.941	mg/L	0.1	0.5	
* Lithium, Total	4/24/20 11:20	4/27/20 15:14		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 13:57		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 13:57		1.015	0.00168	mg/L	0.001	0.005	J
* Barium, Total	4/28/20 08:00	4/30/20 13:57		1.015	0.00270	mg/L	0.002	0.01	J
* Beryllium, Total	4/28/20 08:00	4/30/20 13:57		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 13:57		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 13:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 13:57		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 13:57		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 13:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 13:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 13:57		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 14:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/28/20 10:48	4/30/20 15:04		1	199	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:42	4/27/20 11:42		1	4.40	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 15:10	4/27/20 15:10		1	0.279	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:45	4/24/20 11:45		1	10.9	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/22/20 11:40	4/22/20 11:40			299.70	uS/cm			FA
pH	4/22/20 11:40	4/22/20 11:40			7.72	SU			FA
Temperature	4/22/20 11:40	4/22/20 11:40			22.21	C			FA
Turbidity	4/22/20 11:40	4/22/20 11:40			9.62	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 11:45
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BA07731

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0954	0.0940	0.102	0.085 to 0.115	95.4	70 to 130	1.48	20
BA07735	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0924	0.0922	0.0965	0.085 to 0.115	92.4	70 to 130	0.217	20
BA07735	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.119	0.118	0.102	0.085 to 0.115	94.2	70 to 130	0.844	20
BA07735	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0971	0.0995	0.101	0.085 to 0.115	97.1	70 to 130	2.44	20
BA07735	Calcium, Total	mg/L	-0.0122	0.1518	5.00	183	181	5.23	4.25 to 5.75	160	70 to 130	1.10	20
BA07735	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.0968	0.0962	0.0997	0.085 to 0.115	96.8	70 to 130	0.622	20
BA07735	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.24	1.25	1.05	0.85 to 1.15	105	70 to 130	0.803	20
BA07735	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0985	0.101	0.0967	0.085 to 0.115	98.5	70 to 130	2.51	20
BA07735	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.104	0.106	0.0981	0.085 to 0.115	96.3	70 to 130	1.90	20
BA07735	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.129	0.131	0.102	0.085 to 0.115	96.3	70 to 130	1.54	20
BA07735	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.0957	0.0987	0.101	0.085 to 0.115	95.7	70 to 130	3.09	20
BA07735	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.108	0.106	0.101	0.085 to 0.115	108	70 to 130	1.87	20
BA07735	Mercury, Total by CVAA	mg/L	0.0000709	0.0005	0.004	0.00391	0.00372	0.00409	0.0034 to 0.0046	97.8	70 to 130	4.98	20
BA07735	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.244	0.244	0.204	0.17 to 0.23	115	70 to 130	0.00	20
BA07735	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0958	0.0951	0.0967	0.085 to 0.115	95.8	70 to 130	0.733	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 11:45
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BA07731

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Sulfate	mg/L	-0.526	0.50	800	1230	522	18.1	18 to 22	90.0	80 to 120	2.33	20
BA07735	Solids, Dissolved	mg/L	2.00	25			957	51.0	40 to 60			1.03	5
BA07735	Chloride	mg/L	-0.020	0.50	10.0	20.0	10.6	10.6	9 to 11	97.0	80 to 120	2.87	20
BA07735	Fluoride	mg/L	0.0275	0.05	2.50	2.86	0.165	2.64	2.25 to 2.75	107	80 to 120	17.7	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 4/22/20 12:58
Customer ID:
Submittal Date: 4/23/20 12:31

Laboratory ID Number: BA07732

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 15:17		1.015	0.118	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 15:43		10.15	83.9	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 15:17		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 14:00		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 14:00		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 14:00		1.015	0.0607	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 14:00		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 14:00		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 14:00		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 14:00		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 14:00		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 14:00		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 14:00		1.015	0.0111	mg/L	0.002	0.01	
* Thallium, Total	4/28/20 08:00	4/30/20 14:00		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 14:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/28/20 10:48	4/30/20 15:04		1	290	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:43	4/27/20 11:43		1	2.25	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 15:11	4/27/20 15:11		1	0.135	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:46	4/24/20 11:46		4	66.5	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/22/20 12:53	4/22/20 12:53			442.69	uS/cm			FA
pH	4/22/20 12:53	4/22/20 12:53			6.66	SU			FA
Temperature	4/22/20 12:53	4/22/20 12:53			19.41	C			FA
Turbidity	4/22/20 12:53	4/22/20 12:53			3.36	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 12:58
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BA07732

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0954	0.0940	0.102	0.085 to 0.115	95.4	70 to 130	1.48	20
BA07735	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.119	0.118	0.102	0.085 to 0.115	94.2	70 to 130	0.844	20
BA07735	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0924	0.0922	0.0965	0.085 to 0.115	92.4	70 to 130	0.217	20
BA07735	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0971	0.0995	0.101	0.085 to 0.115	97.1	70 to 130	2.44	20
BA07735	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.24	1.25	1.05	0.85 to 1.15	105	70 to 130	0.803	20
BA07735	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0985	0.101	0.0967	0.085 to 0.115	98.5	70 to 130	2.51	20
BA07735	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.104	0.106	0.0981	0.085 to 0.115	96.3	70 to 130	1.90	20
BA07735	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.129	0.131	0.102	0.085 to 0.115	96.3	70 to 130	1.54	20
BA07735	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.0957	0.0987	0.101	0.085 to 0.115	95.7	70 to 130	3.09	20
BA07735	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.108	0.106	0.101	0.085 to 0.115	108	70 to 130	1.87	20
BA07735	Mercury, Total by CVAA	mg/L	0.0000709	0.0005	0.004	0.00391	0.00372	0.00409	0.0034 to 0.0046	97.8	70 to 130	4.98	20
BA07735	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.244	0.244	0.204	0.17 to 0.23	115	70 to 130	0.00	20
BA07735	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0958	0.0951	0.0967	0.085 to 0.115	95.8	70 to 130	0.733	20
BA07735	Calcium, Total	mg/L	-0.0122	0.1518	5.00	183	181	5.23	4.25 to 5.75	160	70 to 130	1.10	20
BA07735	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.0968	0.0962	0.0997	0.085 to 0.115	96.8	70 to 130	0.622	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 12:58
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BA07732

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Sulfate	mg/L	-0.526	0.50	800	1230	522	18.1	18 to 22	90.0	80 to 120	2.33	20
BA07735	Solids, Dissolved	mg/L	2.00	25			957	51.0	40 to 60			1.03	5
BA07735	Chloride	mg/L	-0.020	0.50	10.0	20.0	10.6	10.6	9 to 11	97.0	80 to 120	2.87	20
BA07735	Fluoride	mg/L	0.0275	0.05	2.50	2.86	0.165	2.64	2.25 to 2.75	107	80 to 120	17.7	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 4/22/20 14:05
Customer ID:
Submittal Date: 4/23/20 12:31

Laboratory ID Number: BA07733

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 15:20		1.015	1.89	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 15:46		10.15	102	mg/L	1.015	5.075	
* Lithium, Total	4/24/20 11:20	4/27/20 15:20		1.015	0.410	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 14:02		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 14:02		1.015	0.0533	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 14:02		1.015	0.192	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 14:02		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 14:02		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 14:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 14:02		1.015	0.0192	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 14:02		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 14:02		1.015	0.00246	mg/L	0.002	0.01	J
* Selenium, Total	4/28/20 08:00	4/30/20 14:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 14:02		1.015	0.000800	mg/L	0.0002	0.001	J
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 14:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/28/20 10:48	4/30/20 15:04		1	512	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:45	4/27/20 11:45		1	12.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 15:12	4/27/20 15:12		1	0.446	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:47	4/24/20 11:47		1	31.7	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/22/20 14:03	4/22/20 14:03			901.47	uS/cm			FA
pH	4/22/20 14:03	4/22/20 14:03			6.42	SU			FA
Temperature	4/22/20 14:03	4/22/20 14:03			19.52	C			FA
Turbidity	4/22/20 14:03	4/22/20 14:03			4.86	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 14:05
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BA07733

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0954	0.0940	0.102	0.085 to 0.115	95.4	70 to 130	1.48	20
BA07735	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0924	0.0922	0.0965	0.085 to 0.115	92.4	70 to 130	0.217	20
BA07735	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.119	0.118	0.102	0.085 to 0.115	94.2	70 to 130	0.844	20
BA07735	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0971	0.0995	0.101	0.085 to 0.115	97.1	70 to 130	2.44	20
BA07735	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.24	1.25	1.05	0.85 to 1.15	105	70 to 130	0.803	20
BA07735	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0985	0.101	0.0967	0.085 to 0.115	98.5	70 to 130	2.51	20
BA07735	Calcium, Total	mg/L	-0.0122	0.1518	5.00	183	181	5.23	4.25 to 5.75	160	70 to 130	1.10	20
BA07735	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.0968	0.0962	0.0997	0.085 to 0.115	96.8	70 to 130	0.622	20
BA07735	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.104	0.106	0.0981	0.085 to 0.115	96.3	70 to 130	1.90	20
BA07735	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.129	0.131	0.102	0.085 to 0.115	96.3	70 to 130	1.54	20
BA07735	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.0957	0.0987	0.101	0.085 to 0.115	95.7	70 to 130	3.09	20
BA07735	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.108	0.106	0.101	0.085 to 0.115	108	70 to 130	1.87	20
BA07735	Mercury, Total by CVAA	mg/L	0.0000709	0.0005	0.004	0.00391	0.00372	0.00409	0.0034 to 0.0046	97.8	70 to 130	4.98	20
BA07735	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.244	0.244	0.204	0.17 to 0.23	115	70 to 130	0.00	20
BA07735	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0958	0.0951	0.0967	0.085 to 0.115	95.8	70 to 130	0.733	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 14:05
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BA07733

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Sulfate	mg/L	-0.526	0.50	800	1230	522	18.1	18 to 22	90.0	80 to 120	2.33	20
BA07735	Solids, Dissolved	mg/L	2.00	25			957	51.0	40 to 60			1.03	5
BA07735	Chloride	mg/L	-0.020	0.50	10.0	20.0	10.6	10.6	9 to 11	97.0	80 to 120	2.87	20
BA07735	Fluoride	mg/L	0.0275	0.05	2.50	2.86	0.165	2.64	2.25 to 2.75	107	80 to 120	17.7	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 4/22/20 14:30
Customer ID:
Submittal Date: 4/23/20 12:31

Laboratory ID Number: BA07734

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 15:23		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/24/20 11:20	4/27/20 15:23		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	4/24/20 11:20	4/27/20 15:23		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 14:05		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 14:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/28/20 10:48	4/30/20 15:04		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:46	4/27/20 11:46		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 15:13	4/27/20 15:13		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:48	4/24/20 11:48		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 4/22/20 14:30
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07734

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0924	0.0922	0.0965	0.085 to 0.115	92.4	70 to 130	0.217	20
BA07735	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0971	0.0995	0.101	0.085 to 0.115	97.1	70 to 130	2.44	20
BA07735	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0954	0.0940	0.102	0.085 to 0.115	95.4	70 to 130	1.48	20
BA07735	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.119	0.118	0.102	0.085 to 0.115	94.2	70 to 130	0.844	20
BA07735	Calcium, Total	mg/L	-0.0122	0.1518	5.00	183	181	5.23	4.25 to 5.75	160	70 to 130	1.10	20
BA07735	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.0968	0.0962	0.0997	0.085 to 0.115	96.8	70 to 130	0.622	20
BA07735	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.104	0.106	0.0981	0.085 to 0.115	96.3	70 to 130	1.90	20
BA07735	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.129	0.131	0.102	0.085 to 0.115	96.3	70 to 130	1.54	20
BA07735	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.0957	0.0987	0.101	0.085 to 0.115	95.7	70 to 130	3.09	20
BA07735	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.108	0.106	0.101	0.085 to 0.115	108	70 to 130	1.87	20
BA07735	Mercury, Total by CVAA	mg/L	0.0000709	0.0005	0.004	0.00391	0.00372	0.00409	0.0034 to 0.0046	97.8	70 to 130	4.98	20
BA07735	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.244	0.244	0.204	0.17 to 0.23	115	70 to 130	0.00	20
BA07735	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0958	0.0951	0.0967	0.085 to 0.115	95.8	70 to 130	0.733	20
BA07735	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.24	1.25	1.05	0.85 to 1.15	105	70 to 130	0.803	20
BA07735	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0985	0.101	0.0967	0.085 to 0.115	98.5	70 to 130	2.51	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 4/22/20 14:30
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA07734

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Solids, Dissolved	mg/L	2.00	25			957	51.0	40 to 60			1.03	5
BA07735	Sulfate	mg/L	-0.526	0.50	800	1230	522	18.1	18 to 22	90.0	80 to 120	2.33	20
BA07735	Chloride	mg/L	-0.020	0.50	10.0	20.0	10.6	10.6	9 to 11	97.0	80 to 120	2.87	20
BA07735	Fluoride	mg/L	0.0275	0.05	2.50	2.86	0.165	2.64	2.25 to 2.75	107	80 to 120	17.7	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP
Collected: 4/22/20 16:00
Customer ID:
Submittal Date: 4/23/20 12:31

Laboratory ID Number: BA07735

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/24/20 11:20	4/27/20 15:26		1.015	0.186	mg/L	0.03	0.1	
* Calcium, Total	4/24/20 11:20	4/27/20 15:49		10.15	175	mg/L	1.015	5.075	RA
* Lithium, Total	4/24/20 11:20	4/27/20 15:26		1.015	0.0134	mg/L	0.01	0.02	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/28/20 08:00	4/30/20 14:08		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/28/20 08:00	4/30/20 14:08		1.015	0.00768	mg/L	0.001	0.005	
* Barium, Total	4/28/20 08:00	4/30/20 14:08		1.015	0.0248	mg/L	0.002	0.01	
* Beryllium, Total	4/28/20 08:00	4/30/20 14:08		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/28/20 08:00	4/30/20 14:08		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/28/20 08:00	4/30/20 14:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/28/20 08:00	4/30/20 14:08		1.015	0.0327	mg/L	0.002	0.005	
* Lead, Total	4/28/20 08:00	4/30/20 14:08		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/28/20 08:00	4/30/20 14:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/28/20 08:00	4/30/20 14:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/28/20 08:00	4/30/20 14:08		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	4/24/20 09:47	4/24/20 14:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	4/28/20 10:48	4/30/20 15:04		1	977	mg/L		83.3	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	4/27/20 11:47	4/27/20 11:47		1	10.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	4/27/20 15:14	4/27/20 15:14		1	0.197	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	4/24/20 11:49	4/24/20 11:49		40	510	mg/L	20.00	40	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	4/22/20 15:55	4/22/20 15:55			1242.68	uS/cm			FA
pH	4/22/20 15:55	4/22/20 15:55			6.23	SU			FA
Temperature	4/22/20 15:55	4/22/20 15:55			19.88	C			FA
Turbidity	4/22/20 15:55	4/22/20 15:55			7.69	NTU			FA

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

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/22/20 16:00
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BA07735

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Cadmium, Total	mg/L	0.00000415	0.0001474	0.10	0.0954	0.0940	0.102	0.085 to 0.115	95.4	70 to 130	1.48	20
BA07735	Beryllium, Total	mg/L	0.0000432	0.00088	0.10	0.0924	0.0922	0.0965	0.085 to 0.115	92.4	70 to 130	0.217	20
BA07735	Barium, Total	mg/L	0.00000537	0.0002	0.10	0.119	0.118	0.102	0.085 to 0.115	94.2	70 to 130	0.844	20
BA07735	Molybdenum, Total	mg/L	0.0000137	0.0001474	0.10	0.0971	0.0995	0.101	0.085 to 0.115	97.1	70 to 130	2.44	20
BA07735	Calcium, Total	mg/L	-0.0122	0.1518	5.00	183	181	5.23	4.25 to 5.75	160	70 to 130	1.10	20
BA07735	Selenium, Total	mg/L	-0.0000309	0.00066	0.10	0.0968	0.0962	0.0997	0.085 to 0.115	96.8	70 to 130	0.622	20
BA07735	Boron, Total	mg/L	-0.00376	0.0650254	1.00	1.24	1.25	1.05	0.85 to 1.15	105	70 to 130	0.803	20
BA07735	Antimony, Total	mg/L	0.000368	0.00066	0.10	0.0985	0.101	0.0967	0.085 to 0.115	98.5	70 to 130	2.51	20
BA07735	Arsenic, Total	mg/L	0.0000126	0.0001474	0.10	0.104	0.106	0.0981	0.085 to 0.115	96.3	70 to 130	1.90	20
BA07735	Cobalt, Total	mg/L	-0.00000244	0.0001474	0.10	0.129	0.131	0.102	0.085 to 0.115	96.3	70 to 130	1.54	20
BA07735	Chromium, Total	mg/L	-0.0000412	0.00044	0.10	0.0957	0.0987	0.101	0.085 to 0.115	95.7	70 to 130	3.09	20
BA07735	Thallium, Total	mg/L	0.00000013	0.0001474	0.10	0.108	0.106	0.101	0.085 to 0.115	108	70 to 130	1.87	20
BA07735	Mercury, Total by CVAA	mg/L	0.0000709	0.0005	0.004	0.00391	0.00372	0.00409	0.0034 to 0.0046	97.8	70 to 130	4.98	20
BA07735	Lithium, Total	mg/L	0.000126	0.0154	0.20	0.244	0.244	0.204	0.17 to 0.23	115	70 to 130	0.00	20
BA07735	Lead, Total	mg/L	0.00000478	0.0001474	0.10	0.0958	0.0951	0.0967	0.085 to 0.115	95.8	70 to 130	0.733	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/22/20 16:00
Customer ID:
Delivery Date: 4/23/20 12:31

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BA07735

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA07735	Sulfate	mg/L	-0.526	0.50	800	1230	522	18.1	18 to 22	90.0	80 to 120	2.33	20
BA07735	Solids, Dissolved	mg/L	2.00	25			957	51.0	40 to 60			1.03	5
BA07735	Chloride	mg/L	-0.020	0.50	10.0	20.0	10.6	10.6	9 to 11	97.0	80 to 120	2.87	20
BA07735	Fluoride	mg/L	0.0275	0.05	2.50	2.86	0.165	2.64	2.25 to 2.75	107	80 to 120	17.7	20

Comments:

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP
Collected: 4/29/20 12:10
Customer ID:
Submittal Date: 4/30/20 10:41

Laboratory ID Number: BA08042

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	5/4/20 09:56	5/4/20 15:14		1.015	0.699	mg/L	0.03	0.1	
* Calcium, Total	5/4/20 09:56	5/4/20 16:03		10.15	70.8	mg/L	1.015	5.075	RA
* Lithium, Total	5/4/20 09:56	5/4/20 15:14		1.015	0.0410	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/30/20 14:10	5/5/20 13:33		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/30/20 14:10	5/5/20 13:33		1.015	0.00182	mg/L	0.001	0.005	J
* Barium, Total	4/30/20 14:10	5/5/20 13:33		1.015	0.0998	mg/L	0.002	0.01	
* Beryllium, Total	4/30/20 14:10	5/5/20 13:33		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/30/20 14:10	5/5/20 13:33		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/30/20 14:10	5/5/20 13:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/30/20 14:10	5/8/20 10:42		1.015	0.00777	mg/L	0.002	0.005	
* Lead, Total	4/30/20 14:10	5/5/20 13:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/30/20 14:10	5/5/20 13:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	4/30/20 14:10	5/5/20 13:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/30/20 14:10	5/5/20 13:33		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	5/5/20 09:47	5/6/20 11:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	5/1/20 12:10	5/4/20 15:46		1	317	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	5/1/20 10:01	5/1/20 10:01		1	16.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	5/1/20 11:52	5/1/20 11:52		1	0.0857	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	5/4/20 11:32	5/4/20 11:32		5	77.2	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: AWG***								
Conductivity	4/29/20 12:05	4/29/20 12:05			520.34	uS/cm			FA
pH	4/29/20 12:05	4/29/20 12:05			6.37	SU			FA
Temperature	4/29/20 12:05	4/29/20 12:05			18.99	C			FA
Turbidity	4/29/20 12:05	4/29/20 12:05			6.08	NTU			FA

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

Comments: Fluoride precision is invalid due to sample concentration. LBM 5/4/2020

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 4/29/20 12:10
Customer ID:
Delivery Date: 4/30/20 10:41

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BA08042

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA08042	Beryllium, Total	mg/L	0.00000750	0.00088	0.10	0.0935	0.0929	0.0901	0.085 to 0.115	93.5	70 to 130	0.644	20
BA08042	Calcium, Total	mg/L	0.00161	0.1518	5.00	76.7	78.6	5.10	4.25 to 5.75	118	70 to 130	2.45	20
BA08042	Barium, Total	mg/L	-0.00000694	0.0002	0.10	0.195	0.208	0.1000	0.085 to 0.115	95.2	70 to 130	6.45	20
BA08042	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.105	0.105	0.0992	0.085 to 0.115	105	70 to 130	0.00	20
BA08042	Molybdenum, Total	mg/L	0.00000857	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA08042	Antimony, Total	mg/L	0.000494	0.00066	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.93	20
BA08042	Cobalt, Total	mg/L	-0.00000506	0.0001474	0.10	0.113	0.117	0.106	0.085 to 0.115	105	70 to 130	3.48	20
BA08042	Chromium, Total	mg/L	-0.00000162	0.00044	0.10	0.102	0.0995	0.0993	0.085 to 0.115	102	70 to 130	2.48	20
BA08042	Lead, Total	mg/L	0.00000687	0.0001474	0.10	0.102	0.104	0.102	0.085 to 0.115	102	70 to 130	1.94	20
BA08042	Thallium, Total	mg/L	0.00000507	0.0001474	0.10	0.0974	0.101	0.0972	0.085 to 0.115	97.4	70 to 130	3.63	20
BA08042	Arsenic, Total	mg/L	0.00000514	0.0001474	0.10	0.109	0.105	0.103	0.085 to 0.115	107	70 to 130	3.74	20
BA08042	Boron, Total	mg/L	0.00511	0.0650254	1.00	1.72	1.73	0.997	0.85 to 1.15	102	70 to 130	0.580	20
BA08042	Cadmium, Total	mg/L	0.00000425	0.0001474	0.10	0.103	0.103	0.102	0.085 to 0.115	103	70 to 130	0.00	20
BA08042	Mercury, Total by CVAA	mg/L	-0.00000226	0.0005	0.004	0.00439	0.00447	0.00440	0.0034 to 0.0046	110	70 to 130	1.81	20
BA08042	Lithium, Total	mg/L	0.0000142	0.0154	0.20	0.252	0.252	0.193	0.17 to 0.23	106	70 to 130	0.00	20

Comments: Fluoride precision is invalid due to sample concentration. LBM 5/4/2020

Reported: 5/15/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 4/29/20 12:10
Customer ID:
Delivery Date: 4/30/20 10:41

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BA08042

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA08042	Chloride	mg/L	-0.0108	0.50	10.0	25.7	16.2	10.4	9 to 11	96.0	80 to 120	0.619	20
BA08042	Fluoride	mg/L	0.0258	0.05	2.50	2.62	0.0696	2.61	2.25 to 2.75	101	80 to 120	20.7	20
BA08042	Sulfate	mg/L	-0.390	0.50	100	169	76.6	18.8	18 to 22	91.8	80 to 120	0.780	20
BA08042	Solids, Dissolved	mg/L	2.00	25			314	57.0	40 to 60			0.475	5

Comments: Fluoride precision is invalid due to sample concentration. LBM 5/4/2020

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

Definitions

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.
HT	Analysis was performed outside of the analytical holding time.
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: 04/22/2020 10:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-45H	04/20/2020	12:50	4	Groundwater		BA07511
MW-45H Dup	04/20/2020	12:50	4	Sample Duplicate		BA07512
MW-13	04/20/2020	14:10	4	Groundwater		BA07513
MW-40H	04/20/2020	15:30	4	Groundwater		BA07514
MW-15	04/20/2020	16:15	4	Groundwater		BA07515
MW-16	04/20/2020	17:43	4	Groundwater		BA07516
FB-1	04/20/2020	18:00	4	Field Blank		BA07517
MW-18	04/21/2020	09:00	4	Groundwater		BA07518
MW-17	04/21/2020	09:55	4	Groundwater		BA07519
MW-14	04/21/2020	11:25	4	Groundwater		BA07520
MW-29	04/21/2020	13:00	4	Groundwater		BA07521
MW-28	04/21/2020	13:55	4	Groundwater		BA07522
MW-27	04/21/2020	14:40	4	Groundwater		BA07523
MW-26	04/21/2020	15:20	4	Groundwater		BA07524
MW-23	04/21/2020	16:35	4	Groundwater		BA07525

Relinquished By	Received By	Date/Time
		04/22/2020 07:42
		04/22/2020 11:21

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23343-4-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	0.1 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	7901-43573-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody
Groundwater
APC General Testing Laboratory

✔ Field Complete
✔ Lab Complete
☐ Outside Lab

Lab ETA: 04/22/2020 10:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: Correcting MW-4 per SAP to PZ-4. LBM 4/23/20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-53H	04/20/2020	12:07	4	Groundwater		BA07494
MW-54H	04/20/2020	13:06	4	Groundwater		BA07495
MW-54H dup	04/20/2020	13:06	4	Sample Duplicate		BA07496
MW-57H	04/20/2020	14:10	4	Groundwater		BA07497
MW-44H	04/20/2020	15:14	4	Groundwater		BA07498
PZ-4	04/20/2020	16:25	4	Groundwater		BA07499
MW-3	04/20/2020	17:23	4	Groundwater		BA07500
MW-2	04/21/2020	08:17	4	Groundwater		BA07501
MW-1	04/21/2020	09:06	4	Groundwater		BA07502
MW-1 dup	04/21/2020	09:06	4	Sample Duplicate		BA07503
MW-12	04/21/2020	10:16	4	Groundwater		BA07504
MW-48H	04/21/2020	11:06	4	Groundwater		BA07505
MW-21	04/21/2020	12:08	4	Groundwater		BA07506
MW-43H	04/21/2020	13:37	4	Groundwater		BA07507
MW-42H	04/21/2020	15:00	4	Groundwater		BA07508
MW-49H	04/21/2020	16:37	4	Groundwater		BA07509
FB-3	04/21/2020	16:56	4	Field Blank		BA07510

Relinquished By	Received By	Date/Time
		04/22/2020 07:43
		04/22/2020 11:18

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	0.0 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	7901-43573-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody
Groundwater
APC General Testing Laboratory

✔ Field Complete
✔ Lab Complete
☐ Outside Lab

Lab ETA: 04/22/2020 10:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6	04/21/2020	08:35	4	Groundwater		BA07484
MW-7	04/21/2020	09:25	4	Groundwater		BA07485
MW-7DUP	04/21/2020	09:25	4	Sample Duplicate		BA07486
MW-8	04/21/2020	10:28	4	Groundwater		BA07487
MW-9	04/21/2020	11:22	4	Groundwater		BA07488
MW-30	04/21/2020	13:17	4	Groundwater		BA07489
FB-5	04/21/2020	13:58	4	Field Blank		BA07490
MW-5	04/21/2020	14:18	4	Groundwater		BA07491
MW-35H	04/21/2020	15:28	4	Groundwater		BA07492
EB-1	04/21/2020	16:05	4	Equipment Blank		BA07493

Relinquished By	Received By	Date/Time
		04/22/2020 11:17

SmarTroll ID	7586-41442-5-1
Turbidity ID	5260-26211-1-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	0.1 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	7901-43573-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody
Groundwater
APC General Testing Laboratory

✔ Field Complete
✔ Lab Complete
☐ Outside Lab

Lab ETA: 04/23/2020 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-25	04/22/2020	09:30	4	Groundwater		BA07728
MW-24	04/22/2020	10:30	4	Groundwater		BA07729
MW-24 Dup	04/22/2020	10:30	4	Sample Duplicate		BA07730
MW-36H	04/22/2020	11:45	4	Groundwater		BA07731
MW-38H	04/22/2020	12:58	4	Groundwater		BA07732
MW-39H	04/22/2020	14:05	4	Groundwater		BA07733
FB-2	04/22/2020	14:30	4	Field Blank		BA07734
MW-37H	04/22/2020	16:00	4	Groundwater		BA07735

Relinquished By	Received By	Date/Time
		04/23/2020 11:03

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23343-4-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	0.0 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	7901-43573-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody Groundwater

APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab

☑ Lab Complete

Lab ETA 04/23/2020 11:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-32	04/22/2020	09:26	4	Groundwater		BA07720
MW-33	04/22/2020	10:26	4	Groundwater		BA07721
FB-4	04/22/2020	10:57	4	Field Blank		BA07722
MW-31	04/22/2020	11:25	4	Groundwater		BA07723
MW-34HA	04/22/2020	12:34	4	Groundwater		BA07724
MW-10	04/22/2020	13:40	4	Groundwater		BA07725
MW-11	04/22/2020	14:27	4	Groundwater		BA07726
EB-2	04/22/2020	14:43	4	Equipment Blank		BA07727

Relinquished By	Received By	Date/Time
		04/23/2020 11:02

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	0.0 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	7901-43573-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody Groundwater

APC General Testing Laboratory

Alabama Power Lab & Field Services

☑ Field Complete ☐ Outside Lab

☑ Lab Complete

Lab ETA 04/30/2020 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: Correcting date to 4/29/2020 and bottle count to 4. LBM 4/30/2020

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-41H	04/29/2020	12:10	4	Groundwater		BA08042

Relinquished By	Received By	Date/Time
		04/30/2020 09:43

SmarTroll ID	7586-41442-5-1
Turbidity ID	5160-26211-1-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	0.0 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	7901-43573-2-2

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 04/22/2020 10:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	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 @ MW-13

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-45H	04/20/2020	12:50	1	Groundwater		BA07553
MW-45H Dup	04/20/2020	12:50	1	Sample Duplicate		BA07554
MW-13	04/20/2020	14:10	3	Groundwater		BA07555
MW-40H	04/20/2020	15:30	1	Groundwater		BA07556
MW-15	04/20/2020	16:15	1	Groundwater		BA07557
MW-16	04/20/2020	17:43	1	Groundwater		BA07558
FB-1	04/20/2020	18:00	1	Field Blank		BA07559
MW-18	04/21/2020	09:00	1	Groundwater		BA07560
MW-17	04/21/2020	09:55	1	Groundwater		BA07561
MW-14	04/21/2020	11:25	1	Groundwater		BA07562
MW-29	04/21/2020	13:00	1	Groundwater		BA07563
MW-28	04/21/2020	13:55	1	Groundwater		BA07564
MW-27	04/21/2020	14:40	1	Groundwater		BA07565
MW-26	04/21/2020	15:20	1	Groundwater		BA07566
MW-23	04/21/2020	16:35	1	Groundwater		BA07567

Relinquished By	Received By	Date/Time
		04/22/2020 07:41
		04/22/2020 11:20

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23343-4-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	7901-43573-2-2

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 04/22/2020 10:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	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-53H
Correcting MW-4 per SAP to PZ-4. LBM 4/23/20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-53H	04/20/2020	12:07	3	Groundwater		BA07536
MW-54H	04/20/2020	13:06	1	Groundwater		BA07537
MW-54H dup	04/20/2020	13:06	1	Sample Duplicate		BA07538
MW-57H	04/20/2020	14:10	1	Groundwater		BA07539
MW-44H	04/20/2020	15:14	1	Groundwater		BA07540
PZ-4	04/20/2020	16:25	1	Groundwater		BA07541
MW-3	04/20/2020	17:23	1	Groundwater		BA07542
MW-2	04/21/2020	08:17	1	Groundwater		BA07543
MW-1	04/21/2020	09:06	1	Groundwater		BA07544
MW-1 dup	04/21/2020	09:06	1	Sample Duplicate		BA07545
MW-12	04/21/2020	10:16	1	Groundwater		BA07546
MW-48H	04/21/2020	11:06	1	Groundwater		BA07547
MW-21	04/21/2020	12:08	1	Groundwater		BA07548
MW-43H	04/21/2020	13:37	1	Groundwater		BA07549
MW-42H	04/21/2020	15:00	1	Groundwater		BA07550
MW-49H	04/21/2020	16:37	1	Groundwater		BA07551
FB-3	04/21/2020	16:56	1	Field Blank		BA07552

Relinquished By	Received By	Date/Time
		04/22/2020 07:43
		04/22/2020 11:19

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	7901-43573-2-2

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 04/22/2020 10:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	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 @ MW-6

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-6	04/21/2020	08:35	3	Groundwater		BA07526
MW-7	04/21/2020	09:25	1	Groundwater		BA07527
MW-7DUP	04/21/2020	09:25	1	Sample Duplicate		BA07528
MW-8	04/21/2020	10:28	1	Groundwater		BA07529
MW-9	04/21/2020	11:22	1	Groundwater		BA07530
MW-30	04/21/2020	13:17	1	Groundwater		BA07531
FB-5	04/21/2020	13:58	1	Field Blank		BA07532
MW-5	04/21/2020	14:18	1	Groundwater		BA07533
MW-35H	04/21/2020	15:28	1	Groundwater		BA07534
EB-1	04/21/2020	16:05	1	Equipment Blank		BA07535

Relinquished By	Received By	Date/Time
		04/22/2020 11:16

SmarTroll ID	7586-41442-5-1
Turbidity ID	5260-26211-1-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	7901-43573-2-2

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 04/23/2020 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	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-25	04/22/2020	09:30	1	Groundwater		BA07744
MW-24	04/22/2020	10:30	1	Groundwater		BA07745
MW-24 Dup	04/22/2020	10:30	1	Sample Duplicate		BA07746
MW-36H	04/22/2020	11:45	1	Groundwater		BA07747
MW-38H	04/22/2020	12:58	1	Groundwater		BA07748
MW-39H	04/22/2020	14:05	1	Groundwater		BA07749
FB-2	04/22/2020	14:30	1	Field Blank		BA07750
MW-37H	04/22/2020	16:00	1	Groundwater		BA07751

Relinquished By	Received By	Date/Time
		04/23/2020 11:03

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23343-4-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	7901-43573-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody Groundwater

APC General Testing Laboratory

✔ Field Complete ✔ Outside Lab

✔ Lab Complete

Lab ETA 04/23/2020 11:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	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-32	04/22/2020	09:26	1	Groundwater		BA07736
MW-33	04/22/2020	10:26	1	Groundwater		BA07737
FB-4	04/22/2020	10:57	1	Field Blank		BA07738
MW-31	04/22/2020	11:25	1	Groundwater		BA07739
MW-34HA	04/22/2020	12:34	1	Groundwater		BA07740
MW-10	04/22/2020	13:40	1	Groundwater		BA07741
MW-11	04/22/2020	14:27	1	Groundwater		BA07742
EB-2	04/22/2020	14:43	1	Equipment Blank		BA07743

Relinquished By	Received By	Date/Time
[signature]	[signature]	04/23/2020 11:03

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	7901-43573-2-2

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 04/30/2020 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	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 date to 4/29/2020. LBM 4/30/2020

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-41H	04/29/2020	12:10	1	Groundwater		BA08043

Relinquished By	Received By	Date/Time
		04/30/2020 09:44

SmarTroll ID	7586-41442-5-1
Turbidity ID	5160-26211-1-1
Sample Event	1275

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	7901-43573-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-187293-1
Laboratory SDG: Greene County Ash Pond 1275
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Cheyenne Whitmire

Authorized for release by:
6/12/2020 10:50:17 AM

Cheyenne Whitmire, Project Manager II
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-187293-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-187293-1

RAD

Method 9315: Ra-226 Prep Batch 160-469586. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA07560 MW-18 (400-187293-35), BA07561 MW-17 (400-187293-36), BA07562 MW-14 (400-187293-37), BA07563 MW-29 (400-187293-38), BA07564 MW-28 (400-187293-39), BA07565 MW-27 (400-187293-40), BA07566 MW-26 (400-187293-41), BA07567 MW-23 (400-187293-42), BA07736 MW-32 (400-187293-43), BA07737 MW-33 (400-187293-44), BA07738 FB-4 (400-187293-45), BA07739 MW-31 (400-187293-46), BA07740 MW-34HA (400-187293-47), BA07741 MW-10 (400-187293-48), BA07742 MW-11 (400-187293-49), BA07743 EB-2 (400-187293-50), BA07744 MW-25 (400-187293-51), BA07745 MW-24 (400-187293-52), BA07746 MW-24 DUP (400-187293-53), BA07747 MW-36H (400-187293-54), (LCS 160-469586/1-A), (LCSD 160-469586/2-A) and (MB 160-469586/23-A)

Method 9315: Radium-226 Prep Batch 160-469558. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA07542 MW-3 (400-187293-17), BA07543 MW-2 (400-187293-18), BA07544 MW-1 (400-187293-19), BA07545 MW-1 DUP (400-187293-20), BA07546 MW-12 (400-187293-21), BA07547 MW-48H (400-187293-22), BA07548 MW-21 (400-187293-23), BA07549 MW-43H (400-187293-24), BA07550 MW-42H (400-187293-25), BA07551 MW-49H (400-187293-26), BA07552 FB-3 (400-187293-27), BA07553 MW-45H (400-187293-28), BA07554 MW-45H DUP (400-187293-29), BA07555 MW-13 (400-187293-30), BA07555 MW-13 (400-187293-30[MS]), BA07555 MW-13 (400-187293-30[MSD]), BA07556 MW-40H (400-187293-31), BA07557 MW-15 (400-187293-32), BA07558 MW-16 (400-187293-33), BA07559 FB-1 (400-187293-34), (LCS 160-469558/1-A) and (MB 160-469558/22-A)

Method 9315: Ra-226 Prep Batch 160-469554. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA07526 MW-6 (400-187293-1), BA07526 MW-6 (400-187293-1[MS]), BA07526 MW-6 (400-187293-1[MSD]), BA07527 MW-7 (400-187293-2), BA07528 MW-7 DUP (400-187293-3), BA07529 MW-8 (400-187293-4), BA07530 MW-9 (400-187293-5), BA07531 MW-30 (400-187293-6), BA07532 FB-5 (400-187293-7), BA07533 MW-5 (400-187293-8), BA07534 MW-35H (400-187293-9), BA07535 EB-1 (400-187293-10), BA07536 MW-53H (400-187293-11), BA07536 MW-53H (400-187293-11[MS]), BA07536 MW-53H (400-187293-11[MSD]), BA07537 MW-54H (400-187293-12), BA07538 MW-54H DUP (400-187293-13), BA07539 MW-57H (400-187293-14), BA07540 MW-44H (400-187293-15), BA07541 PZ-4 (400-187293-16), (LCS 160-469554/1-A) and (MB 160-469554/22-A)

Method 9315: Radium-226 Prep Batch 160-469588. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA07748 MW-38H (400-187293-55), BA07749 MW-39H (400-187293-56), BA07750 FB-2 (400-187293-57), BA07751 MW-37H (400-187293-58), (LCS 160-469588/1-A), (LCSD 160-469588/2-A) and (MB 160-469588/23-A)

Method 9315: Ra-226 Prep Batch 160-470229. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA08043 MW-41H (400-187293-59), (LCS 160-470229/1-A), (MB 160-470229/23-A), (480-169633-E-4-A), (480-169633-D-4-A MS) and (480-169633-E-4-B MSD)

Method 9320: Ra-228 Prep Batch 160-469561. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA07542 MW-3 (400-187293-17), BA07543 MW-2 (400-187293-18), BA07544 MW-1 (400-187293-19), BA07545 MW-1 DUP (400-187293-20), BA07546 MW-12 (400-187293-21), BA07547 MW-48H (400-187293-22), BA07548 MW-21 (400-187293-23), BA07549 MW-43H (400-187293-24), BA07550 MW-42H (400-187293-25), BA07551 MW-49H (400-187293-26), BA07552 FB-3 (400-187293-27), BA07553 MW-45H (400-187293-28), BA07554 MW-45H DUP (400-187293-29), BA07555 MW-13 (400-187293-30), BA07555 MW-13 (400-187293-30[MS]), BA07555 MW-13 (400-187293-30[MSD]), BA07556 MW-40H (400-187293-31), BA07557 MW-15 (400-187293-32), BA07558 MW-16 (400-187293-33), BA07559 FB-1 (400-187293-34), (LCS 160-469561/1-A) and (MB 160-469561/22-A)

Job ID: 400-187293-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Method 9320: Ra-228 Prep Batch 160-469587. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA07560 MW-18 (400-187293-35), BA07561 MW-17 (400-187293-36), BA07562 MW-14 (400-187293-37), BA07563 MW-29 (400-187293-38), BA07564 MW-28 (400-187293-39), BA07565 MW-27 (400-187293-40), BA07566 MW-26 (400-187293-41), BA07567 MW-23 (400-187293-42), BA07736 MW-32 (400-187293-43), BA07737 MW-33 (400-187293-44), BA07738 FB-4 (400-187293-45), BA07739 MW-31 (400-187293-46), BA07740 MW-34HA (400-187293-47), BA07741 MW-10 (400-187293-48), BA07742 MW-11 (400-187293-49), BA07743 EB-2 (400-187293-50), BA07744 MW-25 (400-187293-51), BA07745 MW-24 (400-187293-52), BA07746 MW-24 DUP (400-187293-53), BA07747 MW-36H (400-187293-54), (LCS 160-469587/1-A), (LCSD 160-469587/2-A) and (MB 160-469587/23-A)

Method 9320: Ra-228 Prep Batch 160-469556. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA07526 MW-6 (400-187293-1), BA07526 MW-6 (400-187293-1[MS]), BA07526 MW-6 (400-187293-1[MSD]), BA07527 MW-7 (400-187293-2), BA07528 MW-7 DUP (400-187293-3), BA07529 MW-8 (400-187293-4), BA07530 MW-9 (400-187293-5), BA07531 MW-30 (400-187293-6), BA07532 FB-5 (400-187293-7), BA07533 MW-5 (400-187293-8), BA07534 MW-35H (400-187293-9), BA07535 EB-1 (400-187293-10), BA07536 MW-53H (400-187293-11), BA07536 MW-53H (400-187293-11[MS]), BA07536 MW-53H (400-187293-11[MSD]), BA07537 MW-54H (400-187293-12), BA07538 MW-54H DUP (400-187293-13), BA07539 MW-57H (400-187293-14), BA07540 MW-44H (400-187293-15), BA07541 PZ-4 (400-187293-16), (LCS 160-469556/1-A) and (MB 160-469556/22-A)

Method 9320: Radium-228 Prep Batch 160-470230. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA08043 MW-41H (400-187293-59), (LCS 160-470230/1-A), (MB 160-470230/23-A), (480-169633-E-4-C), (480-169633-D-4-B MS) and (480-169633-E-4-D MSD)

Method 9320: Radium-228 Prep Batch 160-469644. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA07748 MW-38H (400-187293-55), BA07749 MW-39H (400-187293-56), BA07750 FB-2 (400-187293-57), BA07751 MW-37H (400-187293-58), (LCS 160-469644/1-A), (LCSD 160-469644/2-A) and (MB 160-469644/23-A)

Method PrecSep_0: Radium 228 Prep Batch 160-469556. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA07526 MW-6 (400-187293-1), BA07526 MW-6 (400-187293-1[MS]), BA07526 MW-6 (400-187293-1[MSD]), BA07527 MW-7 (400-187293-2), BA07528 MW-7 DUP (400-187293-3), BA07529 MW-8 (400-187293-4), BA07530 MW-9 (400-187293-5), BA07531 MW-30 (400-187293-6), BA07532 FB-5 (400-187293-7), BA07533 MW-5 (400-187293-8), BA07534 MW-35H (400-187293-9), BA07535 EB-1 (400-187293-10), BA07536 MW-53H (400-187293-11), BA07536 MW-53H (400-187293-11[MS]), BA07536 MW-53H (400-187293-11[MSD]), BA07537 MW-54H (400-187293-12), BA07538 MW-54H DUP (400-187293-13), BA07539 MW-57H (400-187293-14), BA07540 MW-44H (400-187293-15) and BA07541 PZ-4 (400-187293-16).

Method PrecSep_0: Radium 228 Prep Batch 160-469561. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA07542 MW-3 (400-187293-17), BA07543 MW-2 (400-187293-18), BA07544 MW-1 (400-187293-19), BA07545 MW-1 DUP (400-187293-20), BA07546 MW-12 (400-187293-21), BA07547 MW-48H (400-187293-22), BA07548 MW-21 (400-187293-23), BA07549 MW-43H (400-187293-24), BA07550 MW-42H (400-187293-25), BA07551 MW-49H (400-187293-26), BA07552 FB-3 (400-187293-27), BA07553 MW-45H (400-187293-28), BA07554 MW-45H DUP (400-187293-29), BA07555 MW-13 (400-187293-30), BA07555 MW-13 (400-187293-30[MS]), BA07555 MW-13 (400-187293-30[MSD]), BA07556 MW-40H (400-187293-31), BA07557 MW-15 (400-187293-32), BA07558 MW-16 (400-187293-33) and BA07559 FB-1 (400-187293-34). Samples 400-187293-17, 400-187293-19, and 400-187293-20 have a yellow discoloration.

Method PrecSep_0: Radium 228 Prep Batch 160-469587. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA07560 MW-18 (400-187293-35), BA07561 MW-17 (400-187293-36), BA07562 MW-14 (400-187293-37), BA07563 MW-29 (400-187293-38), BA07564 MW-28 (400-187293-39), BA07565 MW-27 (400-187293-40), BA07566 MW-26 (400-187293-41), BA07567 MW-23 (400-187293-42), BA07736 MW-32 (400-187293-43), BA07737 MW-33 (400-187293-44), BA07738 FB-4 (400-187293-45), BA07739 MW-31 (400-187293-46), BA07740 MW-34HA (400-187293-47), BA07741 MW-10 (400-187293-48), BA07742 MW-11 (400-187293-49), BA07743 EB-2 (400-187293-50), BA07744 MW-25 (400-187293-51), BA07745 MW-24 (400-187293-52), BA07746 MW-24 DUP (400-187293-53) and BA07747 MW-36H (400-187293-54).

Job ID: 400-187293-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

Method PrecSep_0: Radium 228 Prep Batch 160-469587. Insufficient sample volume was available to perform a sample duplicate for the following samples: BA07560 MW-18 (400-187293-35), BA07561 MW-17 (400-187293-36), BA07562 MW-14 (400-187293-37), BA07563 MW-29 (400-187293-38), BA07564 MW-28 (400-187293-39), BA07565 MW-27 (400-187293-40), BA07566 MW-26 (400-187293-41), BA07567 MW-23 (400-187293-42), BA07736 MW-32 (400-187293-43), BA07737 MW-33 (400-187293-44), BA07738 FB-4 (400-187293-45), BA07739 MW-31 (400-187293-46), BA07740 MW-34HA (400-187293-47), BA07741 MW-10 (400-187293-48), BA07742 MW-11 (400-187293-49), BA07743 EB-2 (400-187293-50), BA07744 MW-25 (400-187293-51), BA07745 MW-24 (400-187293-52), BA07746 MW-24 DUP (400-187293-53) and BA07747 MW-36H (400-187293-54). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-469644. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA07748 MW-38H (400-187293-55), BA07749 MW-39H (400-187293-56), BA07750 FB-2 (400-187293-57) and BA07751 MW-37H (400-187293-58).

Method PrecSep_0: Radium 228 Prep Batch 160-469644. Insufficient sample volume was available to perform a sample duplicate for the following samples: BA07748 MW-38H (400-187293-55), BA07749 MW-39H (400-187293-56), BA07750 FB-2 (400-187293-57) and BA07751 MW-37H (400-187293-58). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-470230. Sample 400-187293-59 was prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis. Samples 310-181262-2,4,5 and 480-169633-8 were reduced due to heavy sediment levels causing brown discoloration and a cloudy appearance: BA08043 MW-41H (400-187293-59)

Method PrecSep-21: Radium 226 Prep Batch 160-469554. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA07526 MW-6 (400-187293-1), BA07526 MW-6 (400-187293-1[MS]), BA07526 MW-6 (400-187293-1[MSD]), BA07527 MW-7 (400-187293-2), BA07528 MW-7 DUP (400-187293-3), BA07529 MW-8 (400-187293-4), BA07530 MW-9 (400-187293-5), BA07531 MW-30 (400-187293-6), BA07532 FB-5 (400-187293-7), BA07533 MW-5 (400-187293-8), BA07534 MW-35H (400-187293-9), BA07535 EB-1 (400-187293-10), BA07536 MW-53H (400-187293-11), BA07536 MW-53H (400-187293-11[MS]), BA07536 MW-53H (400-187293-11[MSD]), BA07537 MW-54H (400-187293-12), BA07538 MW-54H DUP (400-187293-13), BA07539 MW-57H (400-187293-14), BA07540 MW-44H (400-187293-15) and BA07541 PZ-4 (400-187293-16).

Method PrecSep-21: Radium 226 Prep Batch 160-469558. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA07542 MW-3 (400-187293-17), BA07543 MW-2 (400-187293-18), BA07544 MW-1 (400-187293-19), BA07545 MW-1 DUP (400-187293-20), BA07546 MW-12 (400-187293-21), BA07547 MW-48H (400-187293-22), BA07548 MW-21 (400-187293-23), BA07549 MW-43H (400-187293-24), BA07550 MW-42H (400-187293-25), BA07551 MW-49H (400-187293-26), BA07552 FB-3 (400-187293-27), BA07553 MW-45H (400-187293-28), BA07554 MW-45H DUP (400-187293-29), BA07555 MW-13 (400-187293-30), BA07555 MW-13 (400-187293-30[MS]), BA07555 MW-13 (400-187293-30[MSD]), BA07556 MW-40H (400-187293-31), BA07557 MW-15 (400-187293-32), BA07558 MW-16 (400-187293-33) and BA07559 FB-1 (400-187293-34). Samples 400-187293-17, 400-187293-19, and 400-187293-20 have a yellow discoloration

Method PrecSep-21: Radium 226 Prep Batch 160-469586. Insufficient sample volume was available to perform a sample duplicate for the following samples: BA07560 MW-18 (400-187293-35), BA07561 MW-17 (400-187293-36), BA07562 MW-14 (400-187293-37), BA07563 MW-29 (400-187293-38), BA07564 MW-28 (400-187293-39), BA07565 MW-27 (400-187293-40), BA07566 MW-26 (400-187293-41), BA07567 MW-23 (400-187293-42), BA07736 MW-32 (400-187293-43), BA07737 MW-33 (400-187293-44), BA07738 FB-4 (400-187293-45), BA07739 MW-31 (400-187293-46), BA07740 MW-34HA (400-187293-47), BA07741 MW-10 (400-187293-48), BA07742 MW-11 (400-187293-49), BA07743 EB-2 (400-187293-50), BA07744 MW-25 (400-187293-51), BA07745 MW-24 (400-187293-52), BA07746 MW-24 DUP (400-187293-53) and BA07747 MW-36H (400-187293-54). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-469586. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA07560 MW-18 (400-187293-35), BA07561 MW-17 (400-187293-36), BA07562 MW-14 (400-187293-37), BA07563 MW-29 (400-187293-38), BA07564 MW-28 (400-187293-39), BA07565 MW-27 (400-187293-40), BA07566 MW-26 (400-187293-41), BA07567 MW-23 (400-187293-42), BA07736 MW-32 (400-187293-43), BA07737 MW-33 (400-187293-44), BA07738 FB-4 (400-187293-45), BA07739 MW-31 (400-187293-46), BA07740 MW-34HA (400-187293-47), BA07741 MW-10 (400-187293-48), BA07742 MW-11 (400-187293-49), BA07743 EB-2 (400-187293-50), BA07744 MW-25 (400-187293-51), BA07745

Job ID: 400-187293-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

MW-24 (400-187293-52), BA07746 MW-24 DUP (400-187293-53) and BA07747 MW-36H (400-187293-54).

Method PrecSep-21: Radium 226 Prep Batch 160-469588. Insufficient sample volume was available to perform a sample duplicate for the following samples: BA07748 MW-38H (400-187293-55), BA07749 MW-39H (400-187293-56), BA07750 FB-2 (400-187293-57) and BA07751 MW-37H (400-187293-58). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-469588. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA07748 MW-38H (400-187293-55), BA07749 MW-39H (400-187293-56), BA07750 FB-2 (400-187293-57) and BA07751 MW-37H (400-187293-58).

Method PrecSep-21: Radium 226 Prep Batch 160-470229. Sample 400-187293-59 was prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis. Samples 310-181262-2,4,5 and 480-169633-8 were reduced due to heavy sediment levels causing brown discoloration and a cloudy appearance: BA08043 MW-41H (400-187293-59)

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187293-1	BA07526 MW-6	Water	04/21/20 08:35	04/27/20 13:05	
400-187293-2	BA07527 MW-7	Water	04/21/20 09:25	04/27/20 13:05	
400-187293-3	BA07528 MW-7 DUP	Water	04/21/20 09:25	04/27/20 13:05	
400-187293-4	BA07529 MW-8	Water	04/21/20 10:28	04/27/20 13:05	
400-187293-5	BA07530 MW-9	Water	04/21/20 11:22	04/27/20 13:05	
400-187293-6	BA07531 MW-30	Water	04/21/20 13:17	04/27/20 13:05	
400-187293-7	BA07532 FB-5	Water	04/21/20 13:58	04/27/20 13:05	
400-187293-8	BA07533 MW-5	Water	04/21/20 14:18	04/27/20 13:05	
400-187293-9	BA07534 MW-35H	Water	04/21/20 15:28	04/27/20 13:05	
400-187293-10	BA07535 EB-1	Water	04/21/20 16:05	04/27/20 13:05	
400-187293-11	BA07536 MW-53H	Water	04/20/20 12:07	04/27/20 13:05	
400-187293-12	BA07537 MW-54H	Water	04/20/20 13:06	04/27/20 13:05	
400-187293-13	BA07538 MW-54H DUP	Water	04/20/20 13:06	04/27/20 13:05	
400-187293-14	BA07539 MW-57H	Water	04/20/20 14:10	04/27/20 13:05	
400-187293-15	BA07540 MW-44H	Water	04/20/20 15:14	04/27/20 13:05	
400-187293-16	BA07541 PZ-4	Water	04/20/20 16:25	04/27/20 13:05	
400-187293-17	BA07542 MW-3	Water	04/20/20 17:23	04/27/20 13:05	
400-187293-18	BA07543 MW-2	Water	04/21/20 08:17	04/27/20 13:05	
400-187293-19	BA07544 MW-1	Water	04/21/20 09:06	04/27/20 13:05	
400-187293-20	BA07545 MW-1 DUP	Water	04/21/20 09:06	04/27/20 13:05	
400-187293-21	BA07546 MW-12	Water	04/21/20 10:16	04/27/20 13:05	
400-187293-22	BA07547 MW-48H	Water	04/21/20 11:06	04/27/20 13:05	
400-187293-23	BA07548 MW-21	Water	04/21/20 12:08	04/27/20 13:05	
400-187293-24	BA07549 MW-43H	Water	04/21/20 13:37	04/27/20 13:05	
400-187293-25	BA07550 MW-42H	Water	04/21/20 15:00	04/27/20 13:05	
400-187293-26	BA07551 MW-49H	Water	04/21/20 16:37	04/27/20 13:05	
400-187293-27	BA07552 FB-3	Water	04/21/20 16:56	04/27/20 13:05	
400-187293-28	BA07553 MW-45H	Water	04/20/20 12:50	04/27/20 13:05	
400-187293-29	BA07554 MW-45H DUP	Water	04/20/20 12:50	04/27/20 13:05	
400-187293-30	BA07555 MW-13	Water	04/20/20 14:10	04/27/20 13:05	
400-187293-31	BA07556 MW-40H	Water	04/20/20 15:30	04/27/20 13:05	
400-187293-32	BA07557 MW-15	Water	04/20/20 16:15	04/27/20 13:05	
400-187293-33	BA07558 MW-16	Water	04/20/20 17:43	04/27/20 13:05	
400-187293-34	BA07559 FB-1	Water	04/20/20 18:00	04/27/20 13:05	
400-187293-35	BA07560 MW-18	Water	04/21/20 09:00	04/27/20 13:05	
400-187293-36	BA07561 MW-17	Water	04/21/20 09:55	04/27/20 13:05	
400-187293-37	BA07562 MW-14	Water	04/21/20 11:25	04/27/20 13:05	
400-187293-38	BA07563 MW-29	Water	04/21/20 13:00	04/27/20 13:05	
400-187293-39	BA07564 MW-28	Water	04/21/20 13:55	04/27/20 13:05	
400-187293-40	BA07565 MW-27	Water	04/21/20 14:40	04/27/20 13:05	
400-187293-41	BA07566 MW-26	Water	04/21/20 15:20	04/27/20 13:05	
400-187293-42	BA07567 MW-23	Water	04/21/20 16:35	04/27/20 13:05	
400-187293-43	BA07736 MW-32	Water	04/22/20 09:26	04/27/20 13:05	
400-187293-44	BA07737 MW-33	Water	04/22/20 10:26	04/27/20 13:05	
400-187293-45	BA07738 FB-4	Water	04/22/20 10:57	04/27/20 13:05	
400-187293-46	BA07739 MW-31	Water	04/22/20 11:25	04/27/20 13:05	
400-187293-47	BA07740 MW-34HA	Water	04/22/20 12:34	04/27/20 13:05	
400-187293-48	BA07741 MW-10	Water	04/22/20 13:40	04/27/20 13:05	
400-187293-49	BA07742 MW-11	Water	04/22/20 14:27	04/27/20 13:05	
400-187293-50	BA07743 EB-2	Water	04/22/20 14:43	04/27/20 13:05	
400-187293-51	BA07744 MW-25	Water	04/22/20 09:30	04/27/20 13:05	
400-187293-52	BA07745 MW-24	Water	04/22/20 10:30	04/27/20 13:05	
400-187293-53	BA07746 MW-24 DUP	Water	04/22/20 10:30	04/27/20 13:05	

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-187293-54	BA07747 MW-36H	Water	04/22/20 11:45	04/27/20 13:05	
400-187293-55	BA07748 MW-38H	Water	04/22/20 12:58	04/27/20 13:05	
400-187293-56	BA07749 MW-39H	Water	04/22/20 14:05	04/27/20 13:05	
400-187293-57	BA07750 FB-2	Water	04/22/20 14:30	04/27/20 13:05	
400-187293-58	BA07751 MW-37H	Water	04/22/20 16:00	04/27/20 13:05	
400-187293-59	BA08043 MW-41H	Water	04/29/20 12:10	05/05/20 13:55	

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07526 MW-6

Date Collected: 04/21/20 08:35
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.317		0.157	0.160	1.00	0.188	pCi/L	05/05/20 07:05	05/27/20 06:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.4*		*40 - 110*	*05/05/20 07:05*	*05/27/20 06:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.362	U	0.431	0.432	1.00	0.711	pCi/L	05/05/20 07:42	05/19/20 14:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.4*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:46*	*1*
Y Carrier	*83.7*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:46*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.679	U	0.459	0.461	5.00	0.711	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07527 MW-7

Date Collected: 04/21/20 09:25
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.278**		0.133	0.135	1.00	0.160	pCi/L	05/05/20 07:05	05/27/20 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:14*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.271	U	0.333	0.333	1.00	0.550	pCi/L	05/05/20 07:42	05/19/20 14:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:46*	*1*
Y Carrier	*85.6*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:46*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.549	U	0.359	0.359	5.00	0.550	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07528 MW-7 DUP

Lab Sample ID: 400-187293-3

Date Collected: 04/21/20 09:25
Matrix: Water
Date Received: 04/27/20 13:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.299		0.134	0.136	1.00	0.153	pCi/L	05/05/20 07:05	05/27/20 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:14*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.551		0.352	0.355	1.00	0.535	pCi/L	05/05/20 07:42	05/19/20 14:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:46*	*1*
Y Carrier	*88.2*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:46*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.851		0.377	0.380	5.00	0.535	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07529 MW-8

Date Collected: 04/21/20 10:28
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-4

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.557**		0.173	0.180	1.00	0.166	pCi/L	05/05/20 07:05	05/27/20 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:14*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.537	U	0.369	0.372	1.00	0.569	pCi/L	05/05/20 07:42	05/19/20 14:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:34*	*1*
Y Carrier	*81.9*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:34*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.09**		0.408	0.413	5.00	0.569	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07530 MW-9

Date Collected: 04/21/20 11:22
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-5

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.777**		0.196	0.208	1.00	0.156	pCi/L	05/05/20 07:05	05/27/20 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:14*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.533	U	0.374	0.377	1.00	0.578	pCi/L	05/05/20 07:42	05/19/20 14:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:34*	*1*
Y Carrier	*81.5*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:34*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.31**		0.422	0.431	5.00	0.578	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07531 MW-30

Date Collected: 04/21/20 13:17
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-6

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0495	U	0.0808	0.0810	1.00	0.141	pCi/L	05/05/20 07:05	05/27/20 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.2*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:14*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0397	U	0.364	0.364	1.00	0.659	pCi/L	05/05/20 07:42	05/19/20 14:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.2*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*
Y Carrier	*76.6*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00976	U	0.373	0.373	5.00	0.659	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07532 FB-5

Date Collected: 04/21/20 13:58
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-7

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0163	U	0.0605	0.0605	1.00	0.144	pCi/L	05/05/20 07:05	05/27/20 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.6*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0584	U	0.471	0.471	1.00	0.832	pCi/L	05/05/20 07:42	05/19/20 14:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.6*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*
Y Carrier	*71.8*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0421	U	0.475	0.475	5.00	0.832	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07533 MW-5

Date Collected: 04/21/20 14:18
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-8

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.720**		0.183	0.194	1.00	0.122	pCi/L	05/05/20 07:05	05/27/20 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.162	U	0.349	0.349	1.00	0.597	pCi/L	05/05/20 07:42	05/19/20 14:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*
Y Carrier	*91.2*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.882**		0.394	0.399	5.00	0.597	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07534 MW-35H

Lab Sample ID: 400-187293-9

Date Collected: 04/21/20 15:28
Date Received: 04/27/20 13:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.190	U	0.144	0.145	1.00	0.213	pCi/L	05/05/20 07:05	05/27/20 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.6*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.234	U	0.336	0.337	1.00	0.564	pCi/L	05/05/20 07:42	05/19/20 14:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.6*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*
Y Carrier	*87.5*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.423	U	0.366	0.367	5.00	0.564	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07535 EB-1

Date Collected: 04/21/20 16:05
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-10

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0142	U	0.0567	0.0567	1.00	0.132	pCi/L	05/05/20 07:05	05/27/20 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.132	U	0.322	0.322	1.00	0.603	pCi/L	05/05/20 07:42	05/19/20 14:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*
Y Carrier	*86.0*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:35*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.146	U	0.327	0.327	5.00	0.603	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07536 MW-53H

Lab Sample ID: 400-187293-11

Date Collected: 04/20/20 12:07
Date Received: 04/27/20 13:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.607**		0.182	0.190	1.00	0.164	pCi/L	05/05/20 07:05	05/27/20 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.522	U	0.362	0.366	1.00	0.561	pCi/L	05/05/20 07:42	05/19/20 14:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*
Y Carrier	*85.6*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.13**		0.405	0.412	5.00	0.561	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07537 MW-54H

Date Collected: 04/20/20 13:06
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-12

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.889**		0.211	0.226	1.00	0.177	pCi/L	05/05/20 07:05	05/27/20 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.114	U	0.371	0.371	1.00	0.644	pCi/L	05/05/20 07:42	05/19/20 14:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*
Y Carrier	*83.7*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.00**		0.427	0.434	5.00	0.644	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07538 MW-54H DUP

Lab Sample ID: 400-187293-13

Date Collected: 04/20/20 13:06
Matrix: Water
Date Received: 04/27/20 13:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.844		0.240	0.252	1.00	0.204	pCi/L	05/05/20 07:05	05/27/20 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*67.2*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.00		0.554	0.561	1.00	0.830	pCi/L	05/05/20 07:42	05/19/20 14:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*67.2*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*
Y Carrier	*84.5*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.85		0.604	0.615	5.00	0.830	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07539 MW-57H

Date Collected: 04/20/20 14:10
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-14

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.441		0.164	0.169	1.00	0.172	pCi/L	05/05/20 07:05	05/27/20 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.06		0.399	0.411	1.00	0.538	pCi/L	05/05/20 07:42	05/19/20 14:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*
Y Carrier	*88.2*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.50		0.431	0.444	5.00	0.538	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07540 MW-44H

Date Collected: 04/20/20 15:14
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-15

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.262		0.143	0.144	1.00	0.185	pCi/L	05/05/20 07:05	05/27/20 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*40 - 110*	*05/05/20 07:05*	*05/27/20 08:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.124	U	0.346	0.346	1.00	0.602	pCi/L	05/05/20 07:42	05/19/20 14:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*
Y Carrier	*84.9*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.386	U	0.374	0.375	5.00	0.602	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07541 PZ-4

Date Collected: 04/20/20 16:25
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-16

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.507		0.163	0.169	1.00	0.157	pCi/L	05/05/20 07:05	05/27/20 10:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*40 - 110*	*05/05/20 07:05*	*05/27/20 10:03*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.08		0.420	0.432	1.00	0.584	pCi/L	05/05/20 07:42	05/19/20 14:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*
Y Carrier	*86.0*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:36*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.59		0.451	0.464	5.00	0.584	pCi/L		05/27/20 12:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07542 MW-3

Date Collected: 04/20/20 17:23
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-17

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.800**		0.166	0.181	1.00	0.0929	pCi/L	05/05/20 07:44	05/27/20 05:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0991	U	0.299	0.299	1.00	0.520	pCi/L	05/05/20 08:09	05/14/20 14:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*
Y Carrier	*87.9*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.899**		0.342	0.350	5.00	0.520	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07543 MW-2

Date Collected: 04/21/20 08:17
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-18

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.368		0.132	0.136	1.00	0.113	pCi/L	05/05/20 07:44	05/27/20 05:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.6*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.295	U	0.442	0.443	1.00	0.740	pCi/L	05/05/20 08:09	05/14/20 14:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.6*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*
Y Carrier	*90.8*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.663	U	0.461	0.463	5.00	0.740	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07544 MW-1

Date Collected: 04/21/20 09:06
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-19

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.243**		0.103	0.106	1.00	0.0927	pCi/L	05/05/20 07:44	05/27/20 05:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.5*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.468	U	0.387	0.390	1.00	0.617	pCi/L	05/05/20 08:09	05/14/20 14:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.5*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*
Y Carrier	*92.0*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.712**		0.400	0.404	5.00	0.617	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07545 MW-1 DUP

Date Collected: 04/21/20 09:06
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-20

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.329		0.139	0.142	1.00	0.133	pCi/L	05/05/20 07:44	05/27/20 05:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.9*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.456	U	0.539	0.541	1.00	0.889	pCi/L	05/05/20 08:09	05/14/20 14:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.9*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*
Y Carrier	*83.4*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.785	U	0.557	0.559	5.00	0.889	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07546 MW-12

Date Collected: 04/21/20 10:16
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-21

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0210	U	0.0329	0.0329	1.00	0.0963	pCi/L	05/05/20 07:44	05/27/20 05:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.2*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0445	U	0.342	0.342	1.00	0.617	pCi/L	05/05/20 08:09	05/14/20 14:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.2*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*
Y Carrier	*84.9*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0655	U	0.344	0.344	5.00	0.617	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07547 MW-48H

Date Collected: 04/21/20 11:06
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-22

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0307	U	0.0559	0.0560	1.00	0.101	pCi/L	05/05/20 07:44	05/27/20 05:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.311	0.311	1.00	0.520	pCi/L	05/05/20 08:09	05/14/20 14:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:09*	*1*
Y Carrier	*96.8*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:09*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.251	U	0.316	0.316	5.00	0.520	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07548 MW-21

Date Collected: 04/21/20 12:08
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-23

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.141		0.0849	0.0858	1.00	0.105	pCi/L	05/05/20 07:44	05/27/20 05:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:52*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.129	U	0.368	0.369	1.00	0.635	pCi/L	05/05/20 08:09	05/14/20 14:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:09*	*1*
Y Carrier	*87.5*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:09*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.271	U	0.378	0.379	5.00	0.635	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07549 MW-43H

Date Collected: 04/21/20 13:37
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-24

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.580		0.152	0.161	1.00	0.112	pCi/L	05/05/20 07:44	05/27/20 05:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.6*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:52*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.31		0.430	0.447	1.00	0.567	pCi/L	05/05/20 08:09	05/14/20 14:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.6*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*
Y Carrier	*77.8*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.89		0.456	0.475	5.00	0.567	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07550 MW-42H

Lab Sample ID: 400-187293-25

Date Collected: 04/21/20 15:00
Matrix: Water
Date Received: 04/27/20 13:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.480**		0.140	0.147	1.00	0.112	pCi/L	05/05/20 07:44	05/27/20 05:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.4*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:52*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.198	U	0.299	0.299	1.00	0.504	pCi/L	05/05/20 08:09	05/14/20 14:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.4*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*
Y Carrier	*77.4*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.678**		0.330	0.333	5.00	0.504	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07551 MW-49H

Date Collected: 04/21/20 16:37
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-26

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.131**		0.0863	0.0871	1.00	0.114	pCi/L	05/05/20 07:44	05/27/20 05:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.8*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:52*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.463	U	0.315	0.317	1.00	0.482	pCi/L	05/05/20 08:09	05/14/20 14:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.8*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*
Y Carrier	*83.7*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.594**		0.327	0.329	5.00	0.482	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07552 FB-3

Date Collected: 04/21/20 16:56
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-27

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00372	U	0.0677	0.0677	1.00	0.141	pCi/L	05/05/20 07:44	05/27/20 05:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:52*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0474	U	0.338	0.338	1.00	0.610	pCi/L	05/05/20 08:09	05/14/20 14:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*
Y Carrier	*89.7*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0511	U	0.345	0.345	5.00	0.610	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07553 MW-45H

Lab Sample ID: 400-187293-28

Date Collected: 04/20/20 12:50
Date Received: 04/27/20 13:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.113**		0.0804	0.0810	1.00	0.109	pCi/L	05/05/20 07:44	05/27/20 05:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*40 - 110*	*05/05/20 07:44*	*05/27/20 05:52*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.416	U	0.298	0.301	1.00	0.462	pCi/L	05/05/20 08:09	05/14/20 14:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*
Y Carrier	*86.4*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:04*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.529**		0.309	0.312	5.00	0.462	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07554 MW-45H DUP

Lab Sample ID: 400-187293-29

Date Collected: 04/20/20 12:50
Matrix: Water
Date Received: 04/27/20 13:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0931	U	0.0703	0.0708	1.00	0.0954	pCi/L	05/05/20 07:44	05/27/20 07:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*40 - 110*	*05/05/20 07:44*	*05/27/20 07:41*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.246	U	0.296	0.297	1.00	0.489	pCi/L	05/05/20 08:09	05/14/20 14:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*
Y Carrier	*84.9*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.339	U	0.304	0.305	5.00	0.489	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07555 MW-13

Date Collected: 04/20/20 14:10
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-30

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0480	U	0.0587	0.0589	1.00	0.0958	pCi/L	05/05/20 07:44	05/27/20 07:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*40 - 110*	*05/05/20 07:44*	*05/27/20 07:41*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.208	U	0.300	0.300	1.00	0.502	pCi/L	05/05/20 08:09	05/14/20 14:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*
Y Carrier	*86.0*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.256	U	0.306	0.306	5.00	0.502	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07556 MW-40H

Lab Sample ID: 400-187293-31

Date Collected: 04/20/20 15:30
Date Received: 04/27/20 13:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0126	U	0.0462	0.0463	1.00	0.0933	pCi/L	05/05/20 07:44	05/27/20 07:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.1*		*40 - 110*	*05/05/20 07:44*	*05/27/20 07:41*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.647**		0.413	0.418	1.00	0.642	pCi/L	05/05/20 08:09	05/14/20 14:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.1*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*
Y Carrier	*84.5*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.660**		0.416	0.421	5.00	0.642	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07557 MW-15

Date Collected: 04/20/20 16:15
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-32

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.230**		0.101	0.103	1.00	0.0989	pCi/L	05/05/20 07:44	05/27/20 07:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*40 - 110*	*05/05/20 07:44*	*05/27/20 07:41*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.463	U	0.375	0.377	1.00	0.596	pCi/L	05/05/20 08:09	05/14/20 14:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.2*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*
Y Carrier	*88.2*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.693**		0.388	0.391	5.00	0.596	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07558 MW-16

Date Collected: 04/20/20 17:43
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-33

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0996		0.0732	0.0738	1.00	0.0976	pCi/L	05/05/20 07:44	05/27/20 07:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.8*		*40 - 110*	*05/05/20 07:44*	*05/27/20 07:41*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.393	U	0.350	0.352	1.00	0.563	pCi/L	05/05/20 08:09	05/14/20 14:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.8*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*
Y Carrier	*87.5*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.493	U	0.358	0.360	5.00	0.563	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07559 FB-1

Date Collected: 04/20/20 18:00
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-34

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.407**		0.126	0.131	1.00	0.101	pCi/L	05/05/20 07:44	05/27/20 07:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.2*		*40 - 110*	*05/05/20 07:44*	*05/27/20 07:42*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.396	U	0.391	0.392	1.00	0.633	pCi/L	05/05/20 08:09	05/14/20 14:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.2*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*
Y Carrier	*73.6*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.803**		0.411	0.413	5.00	0.633	pCi/L		05/27/20 10:23	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07560 MW-18

Date Collected: 04/21/20 09:00
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-35

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.500**		0.158	0.164	1.00	0.162	pCi/L	05/05/20 12:05	05/27/20 04:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*05/05/20 12:05*	*05/27/20 04:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.388	U	0.337	0.339	1.00	0.540	pCi/L	05/05/20 12:26	05/14/20 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*
Y Carrier	*88.6*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.888**		0.372	0.377	5.00	0.540	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07561 MW-17

Date Collected: 04/21/20 09:55
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-36

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.547**		0.142	0.150	1.00	0.105	pCi/L	05/05/20 12:05	05/27/20 04:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 12:05*	*05/27/20 04:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.312	U	0.309	0.311	1.00	0.502	pCi/L	05/05/20 12:26	05/14/20 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*
Y Carrier	*87.1*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.859**		0.340	0.345	5.00	0.502	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07562 MW-14

Date Collected: 04/21/20 11:25
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-37

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.396**		0.136	0.141	1.00	0.134	pCi/L	05/05/20 12:05	05/27/20 04:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*05/05/20 12:05*	*05/27/20 04:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.258	U	0.301	0.301	1.00	0.495	pCi/L	05/05/20 12:26	05/14/20 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*
Y Carrier	*89.7*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.653**		0.330	0.332	5.00	0.495	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07563 MW-29

Lab Sample ID: 400-187293-38

Date Collected: 04/21/20 13:00
Date Received: 04/27/20 13:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.210**		0.110	0.112	1.00	0.138	pCi/L	05/05/20 12:05	05/27/20 04:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*40 - 110*	*05/05/20 12:05*	*05/27/20 04:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00840	U	0.273	0.273	1.00	0.492	pCi/L	05/05/20 12:26	05/14/20 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*
Y Carrier	*91.6*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.201	U	0.294	0.295	5.00	0.492	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07564 MW-28

Date Collected: 04/21/20 13:55
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-39

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.195		0.0950	0.0966	1.00	0.112	pCi/L	05/05/20 12:05	05/27/20 04:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*40 - 110*	*05/05/20 12:05*	*05/27/20 04:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.112	U	0.284	0.284	1.00	0.489	pCi/L	05/05/20 12:26	05/14/20 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*
Y Carrier	*87.9*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.307	U	0.299	0.300	5.00	0.489	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07565 MW-27

Lab Sample ID: 400-187293-40

Date Collected: 04/21/20 14:40
Date Received: 04/27/20 13:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.180**		0.107	0.108	1.00	0.145	pCi/L	05/05/20 12:05	05/27/20 04:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*40 - 110*	*05/05/20 12:05*	*05/27/20 04:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.371	U	0.329	0.331	1.00	0.527	pCi/L	05/05/20 12:26	05/14/20 14:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*
Y Carrier	*87.5*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:14*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.550**		0.346	0.348	5.00	0.527	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07566 MW-26

Date Collected: 04/21/20 15:20
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-41

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0555	U	0.0761	0.0763	1.00	0.128	pCi/L	05/05/20 12:05	05/27/20 04:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*05/05/20 12:05*	*05/27/20 04:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.160	U	0.307	0.308	1.00	0.523	pCi/L	05/05/20 12:26	05/14/20 14:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*
Y Carrier	*87.5*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.215	U	0.316	0.317	5.00	0.523	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07567 MW-23

Date Collected: 04/21/20 16:35
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-42

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0642	U	0.0811	0.0813	1.00	0.135	pCi/L	05/05/20 12:05	05/27/20 04:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 12:05*	*05/27/20 04:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.101	U	0.294	0.294	1.00	0.510	pCi/L	05/05/20 12:26	05/14/20 14:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*
Y Carrier	*85.6*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.166	U	0.305	0.305	5.00	0.510	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07736 MW-32

Date Collected: 04/22/20 09:26
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-43

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0720	U	0.0879	0.0882	1.00	0.145	pCi/L	05/05/20 12:05	05/27/20 04:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 12:05*	*05/27/20 04:30*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.402	U	0.322	0.324	1.00	0.509	pCi/L	05/05/20 12:26	05/14/20 14:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*
Y Carrier	*85.2*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.474	U	0.334	0.336	5.00	0.509	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07737 MW-33

Date Collected: 04/22/20 10:26
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-44

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.412		0.131	0.136	1.00	0.125	pCi/L	05/05/20 12:05	05/27/20 06:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:24*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.669		0.341	0.347	1.00	0.505	pCi/L	05/05/20 12:26	05/14/20 14:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*
Y Carrier	*86.0*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.365	0.373	5.00	0.505	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07738 FB-4

Date Collected: 04/22/20 10:57
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-45

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0253	U	0.0657	0.0657	1.00	0.122	pCi/L	05/05/20 12:05	05/27/20 06:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:24*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.163	U	0.271	0.272	1.00	0.460	pCi/L	05/05/20 12:26	05/14/20 14:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*
Y Carrier	*87.9*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.189	U	0.279	0.280	5.00	0.460	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07739 MW-31

Date Collected: 04/22/20 11:25
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-46

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0789	U	0.0856	0.0859	1.00	0.137	pCi/L	05/05/20 12:05	05/27/20 06:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:24*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0195	U	0.277	0.277	1.00	0.494	pCi/L	05/05/20 12:26	05/14/20 14:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*
Y Carrier	*92.0*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0983	U	0.290	0.290	5.00	0.494	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07740 MW-34HA

Lab Sample ID: 400-187293-47

Date Collected: 04/22/20 12:34
Matrix: Water
Date Received: 04/27/20 13:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.115	U	0.0854	0.0860	1.00	0.122	pCi/L	05/05/20 12:05	05/27/20 06:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:24*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.358	U	0.308	0.310	1.00	0.494	pCi/L	05/05/20 12:26	05/14/20 14:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*
Y Carrier	*91.2*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:15*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.473	U	0.320	0.322	5.00	0.494	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07741 MW-10

Date Collected: 04/22/20 13:40
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-48

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.485		0.138	0.144	1.00	0.115	pCi/L	05/05/20 12:05	05/27/20 06:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:24*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.622		0.383	0.387	1.00	0.592	pCi/L	05/05/20 12:26	05/14/20 14:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*
Y Carrier	*89.3*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.11		0.407	0.413	5.00	0.592	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07742 MW-11

Date Collected: 04/22/20 14:27
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-49

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193		0.0919	0.0936	1.00	0.101	pCi/L	05/05/20 12:05	05/27/20 06:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:24*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.309	U	0.333	0.334	1.00	0.546	pCi/L	05/05/20 12:26	05/14/20 14:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*
Y Carrier	*90.5*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.502	U	0.345	0.347	5.00	0.546	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07743 EB-2

Date Collected: 04/22/20 14:43
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-50

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0234	U	0.0500	0.0501	1.00	0.0930	pCi/L	05/05/20 12:05	05/27/20 06:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:24*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.172	U	0.350	0.350	1.00	0.594	pCi/L	05/05/20 12:26	05/14/20 14:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*
Y Carrier	*89.3*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.195	U	0.354	0.354	5.00	0.594	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07744 MW-25

Date Collected: 04/22/20 09:30
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-51

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.210		0.117	0.119	1.00	0.157	pCi/L	05/05/20 12:05	05/27/20 06:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:24*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00809	U	0.337	0.337	1.00	0.593	pCi/L	05/05/20 12:26	05/14/20 14:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*
Y Carrier	*90.5*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.218	U	0.357	0.357	5.00	0.593	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07745 MW-24

Lab Sample ID: 400-187293-52

Date Collected: 04/22/20 10:30
Date Received: 04/27/20 13:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.511**		0.137	0.145	1.00	0.105	pCi/L	05/05/20 12:05	05/27/20 06:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.279	U	0.324	0.325	1.00	0.534	pCi/L	05/05/20 12:26	05/14/20 14:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*
Y Carrier	*87.9*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:10*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.791**		0.352	0.356	5.00	0.534	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07746 MW-24 DUP

Lab Sample ID: 400-187293-53

Date Collected: 04/22/20 10:30
Matrix: Water
Date Received: 04/27/20 13:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.390		0.134	0.139	1.00	0.132	pCi/L	05/05/20 12:05	05/27/20 06:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.683		0.335	0.341	1.00	0.493	pCi/L	05/05/20 12:26	05/14/20 14:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:11*	*1*
Y Carrier	*93.1*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:11*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.07		0.361	0.368	5.00	0.493	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07747 MW-36H

Lab Sample ID: 400-187293-54

Date Collected: 04/22/20 11:45
Date Received: 04/27/20 13:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0511	U	0.0516	0.0518	1.00	0.137	pCi/L	05/05/20 12:05	05/27/20 06:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0519	U	0.335	0.335	1.00	0.602	pCi/L	05/05/20 12:26	05/14/20 14:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:11*	*1*
Y Carrier	*90.1*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:11*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.103	U	0.339	0.339	5.00	0.602	pCi/L		05/27/20 10:05	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07748 MW-38H

Date Collected: 04/22/20 12:58
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-55

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0568	U	0.0684	0.0686	1.00	0.111	pCi/L	05/05/20 12:28	05/29/20 04:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*05/05/20 12:28*	*05/29/20 04:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.356	U	0.309	0.310	1.00	0.495	pCi/L	05/05/20 12:53	05/19/20 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:28*	*1*
Y Carrier	*91.6*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:28*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.413	U	0.316	0.317	5.00	0.495	pCi/L		06/02/20 13:46	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07749 MW-39H

Date Collected: 04/22/20 14:05
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-56

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.473		0.161	0.166	1.00	0.172	pCi/L	05/05/20 12:28	05/29/20 04:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*40 - 110*	*05/05/20 12:28*	*05/29/20 04:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.01		0.320	0.334	1.00	0.421	pCi/L	05/05/20 12:53	05/19/20 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:28*	*1*
Y Carrier	*92.0*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:28*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.48		0.358	0.373	5.00	0.421	pCi/L		06/02/20 13:46	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07750 FB-2

Date Collected: 04/22/20 14:30
Date Received: 04/27/20 13:05

Lab Sample ID: 400-187293-57

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0119	U	0.0477	0.0478	1.00	0.111	pCi/L	05/05/20 12:28	05/29/20 04:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 12:28*	*05/29/20 04:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.146	U	0.247	0.247	1.00	0.418	pCi/L	05/05/20 12:53	05/19/20 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:28*	*1*
Y Carrier	*90.8*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:28*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.134	U	0.252	0.252	5.00	0.418	pCi/L		06/02/20 13:46	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07751 MW-37H

Lab Sample ID: 400-187293-58

Date Collected: 04/22/20 16:00
Matrix: Water
Date Received: 04/27/20 13:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106	U	0.0969	0.0974	1.00	0.148	pCi/L	05/05/20 12:28	05/29/20 04:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*05/05/20 12:28*	*05/29/20 04:51*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.167	U	0.260	0.260	1.00	0.438	pCi/L	05/05/20 12:53	05/19/20 07:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.5*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:28*	*1*
Y Carrier	*93.5*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:28*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.273	U	0.277	0.278	5.00	0.438	pCi/L		06/02/20 13:46	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA08043 MW-41H

Lab Sample ID: 400-187293-59

Date Collected: 04/29/20 12:10
Matrix: Water
Date Received: 05/05/20 13:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.413**		0.124	0.130	1.00	0.0966	pCi/L	05/12/20 15:03	06/03/20 05:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*40 - 110*	*05/12/20 15:03*	*06/03/20 05:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.271	U	0.318	0.319	1.00	0.524	pCi/L	05/12/20 15:38	05/21/20 16:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*40 - 110*	*05/12/20 15:38*	*05/21/20 16:33*	*1*
Y Carrier	*86.7*		*40 - 110*	*05/12/20 15:38*	*05/21/20 16:33*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.684**		0.341	0.344	5.00	0.524	pCi/L		06/04/20 09:14	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07526 MW-6
Lab Sample ID: 400-187293-1

Date Collected: 04/21/20 08:35
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:25	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470898	05/19/20 14:46	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07527 MW-7
Lab Sample ID: 400-187293-2

Date Collected: 04/21/20 09:25
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:14	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470898	05/19/20 14:46	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07528 MW-7 DUP
Lab Sample ID: 400-187293-3

Date Collected: 04/21/20 09:25
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:14	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470898	05/19/20 14:46	CJQ	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07529 MW-8
Lab Sample ID: 400-187293-4

Date Collected: 04/21/20 10:28
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:14	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:34	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07530 MW-9
Lab Sample ID: 400-187293-5

Date Collected: 04/21/20 11:22
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:14	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:34	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07531 MW-30
Lab Sample ID: 400-187293-6

Date Collected: 04/21/20 13:17
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:14	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07532 FB-5
Lab Sample ID: 400-187293-7

Date Collected: 04/21/20 13:58
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07533 MW-5
Lab Sample ID: 400-187293-8

Date Collected: 04/21/20 14:18
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07534 MW-35H
Lab Sample ID: 400-187293-9

Date Collected: 04/21/20 15:28
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07535 EB-1
Lab Sample ID: 400-187293-10

Date Collected: 04/21/20 16:05
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07536 MW-53H
Lab Sample ID: 400-187293-11

Date Collected: 04/20/20 12:07
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:15	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07537 MW-54H
Lab Sample ID: 400-187293-12

Date Collected: 04/20/20 13:06
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07538 MW-54H DUP
Lab Sample ID: 400-187293-13

Date Collected: 04/20/20 13:06
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07539 MW-57H
Lab Sample ID: 400-187293-14

Date Collected: 04/20/20 14:10
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07540 MW-44H
Lab Sample ID: 400-187293-15

Date Collected: 04/20/20 15:14
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 08:16	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Client Sample ID: BA07541 PZ-4
Lab Sample ID: 400-187293-16

Date Collected: 04/20/20 16:25
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469554	05/05/20 07:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 10:03	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469556	05/05/20 07:42	RBR	TAL SL
Total/NA	Analysis	9320		1	470863	05/19/20 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471327	05/27/20 12:36	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07542 MW-3
Lab Sample ID: 400-187293-17

Date Collected: 04/20/20 17:23
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:51	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:08	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07543 MW-2
Lab Sample ID: 400-187293-18

Date Collected: 04/21/20 08:17
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:51	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:08	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07544 MW-1
Lab Sample ID: 400-187293-19

Date Collected: 04/21/20 09:06
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:51	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:08	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07545 MW-1 DUP
Lab Sample ID: 400-187293-20

Date Collected: 04/21/20 09:06
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:51	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:08	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07546 MW-12
Lab Sample ID: 400-187293-21

Date Collected: 04/21/20 10:16
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:51	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:08	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07547 MW-48H
Lab Sample ID: 400-187293-22

Date Collected: 04/21/20 11:06
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:51	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:09	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07548 MW-21
Lab Sample ID: 400-187293-23

Date Collected: 04/21/20 12:08
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:52	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:09	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07549 MW-43H
Lab Sample ID: 400-187293-24

Date Collected: 04/21/20 13:37
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:52	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:04	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07550 MW-42H
Lab Sample ID: 400-187293-25

Date Collected: 04/21/20 15:00
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:52	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:04	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07551 MW-49H
Lab Sample ID: 400-187293-26

Date Collected: 04/21/20 16:37
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:52	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:04	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07552 FB-3
Lab Sample ID: 400-187293-27

Date Collected: 04/21/20 16:56
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:52	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:04	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07553 MW-45H
Lab Sample ID: 400-187293-28

Date Collected: 04/20/20 12:50
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 05:52	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:04	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07554 MW-45H DUP
Lab Sample ID: 400-187293-29

Date Collected: 04/20/20 12:50
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 07:41	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:05	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07555 MW-13
Lab Sample ID: 400-187293-30

Date Collected: 04/20/20 14:10
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 07:41	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:05	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07556 MW-40H
Lab Sample ID: 400-187293-31

Date Collected: 04/20/20 15:30
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 07:41	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:05	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07557 MW-15
Lab Sample ID: 400-187293-32

Date Collected: 04/20/20 16:15
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 07:41	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:05	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07558 MW-16
Lab Sample ID: 400-187293-33

Date Collected: 04/20/20 17:43
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 07:41	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:05	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07559 FB-1
Lab Sample ID: 400-187293-34

Date Collected: 04/20/20 18:00
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469558	05/05/20 07:44	RBR	TAL SL
Total/NA	Analysis	9315		1	471298	05/27/20 07:42	AJD	TAL SL
Total/NA	Prep	PrecSep_0			469561	05/05/20 08:09	RBR	TAL SL
Total/NA	Analysis	9320		1	470395	05/14/20 14:05	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471310	05/27/20 10:23	SMP	TAL SL

Client Sample ID: BA07560 MW-18
Lab Sample ID: 400-187293-35

Date Collected: 04/21/20 09:00
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 04:30	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:14	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07561 MW-17
Lab Sample ID: 400-187293-36

Date Collected: 04/21/20 09:55
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 04:30	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:14	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07562 MW-14

Lab Sample ID: 400-187293-37
Date Collected: 04/21/20 11:25
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 04:30	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:14	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07563 MW-29

Lab Sample ID: 400-187293-38
Date Collected: 04/21/20 13:00
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 04:30	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:14	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07564 MW-28

Lab Sample ID: 400-187293-39
Date Collected: 04/21/20 13:55
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 04:30	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:14	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07565 MW-27

Lab Sample ID: 400-187293-40
Date Collected: 04/21/20 14:40
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 04:30	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:14	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07566 MW-26
Lab Sample ID: 400-187293-41

Date Collected: 04/21/20 15:20
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 04:30	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:15	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07567 MW-23
Lab Sample ID: 400-187293-42

Date Collected: 04/21/20 16:35
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 04:30	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:15	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07736 MW-32
Lab Sample ID: 400-187293-43

Date Collected: 04/22/20 09:26
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 04:30	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:15	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07737 MW-33
Lab Sample ID: 400-187293-44

Date Collected: 04/22/20 10:26
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:24	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:15	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07738 FB-4
Lab Sample ID: 400-187293-45

Date Collected: 04/22/20 10:57
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:24	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:15	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07739 MW-31
Lab Sample ID: 400-187293-46

Date Collected: 04/22/20 11:25
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:24	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:15	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07740 MW-34HA
Lab Sample ID: 400-187293-47

Date Collected: 04/22/20 12:34
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:24	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470481	05/14/20 14:15	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07741 MW-10
Lab Sample ID: 400-187293-48

Date Collected: 04/22/20 13:40
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:24	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:10	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07742 MW-11
Lab Sample ID: 400-187293-49

Date Collected: 04/22/20 14:27
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:24	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:10	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07743 EB-2
Lab Sample ID: 400-187293-50

Date Collected: 04/22/20 14:43
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:24	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:10	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07744 MW-25
Lab Sample ID: 400-187293-51

Date Collected: 04/22/20 09:30
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:24	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:10	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07745 MW-24
Lab Sample ID: 400-187293-52

Date Collected: 04/22/20 10:30
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:25	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:10	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07746 MW-24 DUP
Lab Sample ID: 400-187293-53

Date Collected: 04/22/20 10:30
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:25	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:11	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07747 MW-36H
Lab Sample ID: 400-187293-54

Date Collected: 04/22/20 11:45
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469586	05/05/20 12:05	RBR	TAL SL
Total/NA	Analysis	9315		1	471293	05/27/20 06:25	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469587	05/05/20 12:26	RBR	TAL SL
Total/NA	Analysis	9320		1	470411	05/14/20 14:11	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471303	05/27/20 10:05	SMP	TAL SL

Client Sample ID: BA07748 MW-38H
Lab Sample ID: 400-187293-55

Date Collected: 04/22/20 12:58
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469588	05/05/20 12:28	RBR	TAL SL
Total/NA	Analysis	9315		1	471435	05/29/20 04:51	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469644	05/05/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 07:28	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471826	06/02/20 13:46	SMP	TAL SL

Client Sample ID: BA07749 MW-39H
Lab Sample ID: 400-187293-56

Date Collected: 04/22/20 14:05
Date Received: 04/27/20 13:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469588	05/05/20 12:28	RBR	TAL SL
Total/NA	Analysis	9315		1	471435	05/29/20 04:51	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469644	05/05/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 07:28	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471826	06/02/20 13:46	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Client Sample ID: BA07750 FB-2

Lab Sample ID: 400-187293-57
Date Collected: 04/22/20 14:30
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469588	05/05/20 12:28	RBR	TAL SL
Total/NA	Analysis	9315		1	471435	05/29/20 04:51	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469644	05/05/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 07:28	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471826	06/02/20 13:46	SMP	TAL SL

Client Sample ID: BA07751 MW-37H

Lab Sample ID: 400-187293-58
Date Collected: 04/22/20 16:00
Matrix: Water
Date Received: 04/27/20 13:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			469588	05/05/20 12:28	RBR	TAL SL
Total/NA	Analysis	9315		1	471435	05/29/20 04:51	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			469644	05/05/20 12:53	RBR	TAL SL
Total/NA	Analysis	9320		1	470884	05/19/20 07:28	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	471826	06/02/20 13:46	SMP	TAL SL

Client Sample ID: BA08043 MW-41H

Lab Sample ID: 400-187293-59
Date Collected: 04/29/20 12:10
Matrix: Water
Date Received: 05/05/20 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			470229	05/12/20 15:03	MNH	TAL SL
Total/NA	Analysis	9315		1	471868	06/03/20 05:59	AJD	TAL SL
Total/NA	Prep	PrecSep_0			470230	05/12/20 15:38	MNH	TAL SL
Total/NA	Analysis	9320		1	471024	05/21/20 16:33	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	472405	06/04/20 09:14	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Rad

Prep Batch: 469554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-1	BA07526 MW-6	Total/NA	Water	PrecSep-21	
400-187293-2	BA07527 MW-7	Total/NA	Water	PrecSep-21	
400-187293-3	BA07528 MW-7 DUP	Total/NA	Water	PrecSep-21	
400-187293-4	BA07529 MW-8	Total/NA	Water	PrecSep-21	
400-187293-5	BA07530 MW-9	Total/NA	Water	PrecSep-21	
400-187293-6	BA07531 MW-30	Total/NA	Water	PrecSep-21	
400-187293-7	BA07532 FB-5	Total/NA	Water	PrecSep-21	
400-187293-8	BA07533 MW-5	Total/NA	Water	PrecSep-21	
400-187293-9	BA07534 MW-35H	Total/NA	Water	PrecSep-21	
400-187293-10	BA07535 EB-1	Total/NA	Water	PrecSep-21	
400-187293-11	BA07536 MW-53H	Total/NA	Water	PrecSep-21	
400-187293-12	BA07537 MW-54H	Total/NA	Water	PrecSep-21	
400-187293-13	BA07538 MW-54H DUP	Total/NA	Water	PrecSep-21	
400-187293-14	BA07539 MW-57H	Total/NA	Water	PrecSep-21	
400-187293-15	BA07540 MW-44H	Total/NA	Water	PrecSep-21	
400-187293-16	BA07541 PZ-4	Total/NA	Water	PrecSep-21	
MB 160-469554/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-469554/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-187293-1 MS	BA07526 MW-6	Total/NA	Water	PrecSep-21	
400-187293-1 MSD	BA07526 MW-6	Total/NA	Water	PrecSep-21	
400-187293-11 MS	BA07536 MW-53H	Total/NA	Water	PrecSep-21	
400-187293-11 MSD	BA07536 MW-53H	Total/NA	Water	PrecSep-21	

Prep Batch: 469556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-1	BA07526 MW-6	Total/NA	Water	PrecSep_0	
400-187293-2	BA07527 MW-7	Total/NA	Water	PrecSep_0	
400-187293-3	BA07528 MW-7 DUP	Total/NA	Water	PrecSep_0	
400-187293-4	BA07529 MW-8	Total/NA	Water	PrecSep_0	
400-187293-5	BA07530 MW-9	Total/NA	Water	PrecSep_0	
400-187293-6	BA07531 MW-30	Total/NA	Water	PrecSep_0	
400-187293-7	BA07532 FB-5	Total/NA	Water	PrecSep_0	
400-187293-8	BA07533 MW-5	Total/NA	Water	PrecSep_0	
400-187293-9	BA07534 MW-35H	Total/NA	Water	PrecSep_0	
400-187293-10	BA07535 EB-1	Total/NA	Water	PrecSep_0	
400-187293-11	BA07536 MW-53H	Total/NA	Water	PrecSep_0	
400-187293-12	BA07537 MW-54H	Total/NA	Water	PrecSep_0	
400-187293-13	BA07538 MW-54H DUP	Total/NA	Water	PrecSep_0	
400-187293-14	BA07539 MW-57H	Total/NA	Water	PrecSep_0	
400-187293-15	BA07540 MW-44H	Total/NA	Water	PrecSep_0	
400-187293-16	BA07541 PZ-4	Total/NA	Water	PrecSep_0	
MB 160-469556/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-469556/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-187293-1 MS	BA07526 MW-6	Total/NA	Water	PrecSep_0	
400-187293-1 MSD	BA07526 MW-6	Total/NA	Water	PrecSep_0	
400-187293-11 MS	BA07536 MW-53H	Total/NA	Water	PrecSep_0	
400-187293-11 MSD	BA07536 MW-53H	Total/NA	Water	PrecSep_0	

Prep Batch: 469558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-17	BA07542 MW-3	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 469558 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-18	BA07543 MW-2	Total/NA	Water	PrecSep-21	
400-187293-19	BA07544 MW-1	Total/NA	Water	PrecSep-21	
400-187293-20	BA07545 MW-1 DUP	Total/NA	Water	PrecSep-21	
400-187293-21	BA07546 MW-12	Total/NA	Water	PrecSep-21	
400-187293-22	BA07547 MW-48H	Total/NA	Water	PrecSep-21	
400-187293-23	BA07548 MW-21	Total/NA	Water	PrecSep-21	
400-187293-24	BA07549 MW-43H	Total/NA	Water	PrecSep-21	
400-187293-25	BA07550 MW-42H	Total/NA	Water	PrecSep-21	
400-187293-26	BA07551 MW-49H	Total/NA	Water	PrecSep-21	
400-187293-27	BA07552 FB-3	Total/NA	Water	PrecSep-21	
400-187293-28	BA07553 MW-45H	Total/NA	Water	PrecSep-21	
400-187293-29	BA07554 MW-45H DUP	Total/NA	Water	PrecSep-21	
400-187293-30	BA07555 MW-13	Total/NA	Water	PrecSep-21	
400-187293-31	BA07556 MW-40H	Total/NA	Water	PrecSep-21	
400-187293-32	BA07557 MW-15	Total/NA	Water	PrecSep-21	
400-187293-33	BA07558 MW-16	Total/NA	Water	PrecSep-21	
400-187293-34	BA07559 FB-1	Total/NA	Water	PrecSep-21	
MB 160-469558/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-469558/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-187293-30 MS	BA07555 MW-13	Total/NA	Water	PrecSep-21	
400-187293-30 MSD	BA07555 MW-13	Total/NA	Water	PrecSep-21	

Prep Batch: 469561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-17	BA07542 MW-3	Total/NA	Water	PrecSep_0	
400-187293-18	BA07543 MW-2	Total/NA	Water	PrecSep_0	
400-187293-19	BA07544 MW-1	Total/NA	Water	PrecSep_0	
400-187293-20	BA07545 MW-1 DUP	Total/NA	Water	PrecSep_0	
400-187293-21	BA07546 MW-12	Total/NA	Water	PrecSep_0	
400-187293-22	BA07547 MW-48H	Total/NA	Water	PrecSep_0	
400-187293-23	BA07548 MW-21	Total/NA	Water	PrecSep_0	
400-187293-24	BA07549 MW-43H	Total/NA	Water	PrecSep_0	
400-187293-25	BA07550 MW-42H	Total/NA	Water	PrecSep_0	
400-187293-26	BA07551 MW-49H	Total/NA	Water	PrecSep_0	
400-187293-27	BA07552 FB-3	Total/NA	Water	PrecSep_0	
400-187293-28	BA07553 MW-45H	Total/NA	Water	PrecSep_0	
400-187293-29	BA07554 MW-45H DUP	Total/NA	Water	PrecSep_0	
400-187293-30	BA07555 MW-13	Total/NA	Water	PrecSep_0	
400-187293-31	BA07556 MW-40H	Total/NA	Water	PrecSep_0	
400-187293-32	BA07557 MW-15	Total/NA	Water	PrecSep_0	
400-187293-33	BA07558 MW-16	Total/NA	Water	PrecSep_0	
400-187293-34	BA07559 FB-1	Total/NA	Water	PrecSep_0	
MB 160-469561/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-469561/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-187293-30 MS	BA07555 MW-13	Total/NA	Water	PrecSep_0	
400-187293-30 MSD	BA07555 MW-13	Total/NA	Water	PrecSep_0	

Prep Batch: 469586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-35	BA07560 MW-18	Total/NA	Water	PrecSep-21	
400-187293-36	BA07561 MW-17	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 469586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-37	BA07562 MW-14	Total/NA	Water	PrecSep-21	
400-187293-38	BA07563 MW-29	Total/NA	Water	PrecSep-21	
400-187293-39	BA07564 MW-28	Total/NA	Water	PrecSep-21	
400-187293-40	BA07565 MW-27	Total/NA	Water	PrecSep-21	
400-187293-41	BA07566 MW-26	Total/NA	Water	PrecSep-21	
400-187293-42	BA07567 MW-23	Total/NA	Water	PrecSep-21	
400-187293-43	BA07736 MW-32	Total/NA	Water	PrecSep-21	
400-187293-44	BA07737 MW-33	Total/NA	Water	PrecSep-21	
400-187293-45	BA07738 FB-4	Total/NA	Water	PrecSep-21	
400-187293-46	BA07739 MW-31	Total/NA	Water	PrecSep-21	
400-187293-47	BA07740 MW-34HA	Total/NA	Water	PrecSep-21	
400-187293-48	BA07741 MW-10	Total/NA	Water	PrecSep-21	
400-187293-49	BA07742 MW-11	Total/NA	Water	PrecSep-21	
400-187293-50	BA07743 EB-2	Total/NA	Water	PrecSep-21	
400-187293-51	BA07744 MW-25	Total/NA	Water	PrecSep-21	
400-187293-52	BA07745 MW-24	Total/NA	Water	PrecSep-21	
400-187293-53	BA07746 MW-24 DUP	Total/NA	Water	PrecSep-21	
400-187293-54	BA07747 MW-36H	Total/NA	Water	PrecSep-21	
MB 160-469586/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-469586/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-469586/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 469587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-35	BA07560 MW-18	Total/NA	Water	PrecSep_0	
400-187293-36	BA07561 MW-17	Total/NA	Water	PrecSep_0	
400-187293-37	BA07562 MW-14	Total/NA	Water	PrecSep_0	
400-187293-38	BA07563 MW-29	Total/NA	Water	PrecSep_0	
400-187293-39	BA07564 MW-28	Total/NA	Water	PrecSep_0	
400-187293-40	BA07565 MW-27	Total/NA	Water	PrecSep_0	
400-187293-41	BA07566 MW-26	Total/NA	Water	PrecSep_0	
400-187293-42	BA07567 MW-23	Total/NA	Water	PrecSep_0	
400-187293-43	BA07736 MW-32	Total/NA	Water	PrecSep_0	
400-187293-44	BA07737 MW-33	Total/NA	Water	PrecSep_0	
400-187293-45	BA07738 FB-4	Total/NA	Water	PrecSep_0	
400-187293-46	BA07739 MW-31	Total/NA	Water	PrecSep_0	
400-187293-47	BA07740 MW-34HA	Total/NA	Water	PrecSep_0	
400-187293-48	BA07741 MW-10	Total/NA	Water	PrecSep_0	
400-187293-49	BA07742 MW-11	Total/NA	Water	PrecSep_0	
400-187293-50	BA07743 EB-2	Total/NA	Water	PrecSep_0	
400-187293-51	BA07744 MW-25	Total/NA	Water	PrecSep_0	
400-187293-52	BA07745 MW-24	Total/NA	Water	PrecSep_0	
400-187293-53	BA07746 MW-24 DUP	Total/NA	Water	PrecSep_0	
400-187293-54	BA07747 MW-36H	Total/NA	Water	PrecSep_0	
MB 160-469587/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-469587/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-469587/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 469588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-55	BA07748 MW-38H	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 469588 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-56	BA07749 MW-39H	Total/NA	Water	PrecSep-21	
400-187293-57	BA07750 FB-2	Total/NA	Water	PrecSep-21	
400-187293-58	BA07751 MW-37H	Total/NA	Water	PrecSep-21	
MB 160-469588/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-469588/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-469588/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 469644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-55	BA07748 MW-38H	Total/NA	Water	PrecSep_0	
400-187293-56	BA07749 MW-39H	Total/NA	Water	PrecSep_0	
400-187293-57	BA07750 FB-2	Total/NA	Water	PrecSep_0	
400-187293-58	BA07751 MW-37H	Total/NA	Water	PrecSep_0	
MB 160-469644/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-469644/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-469644/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 470229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-59	BA08043 MW-41H	Total/NA	Water	PrecSep-21	
MB 160-470229/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-470229/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
480-169633-D-4-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	
480-169633-E-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 470230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-187293-59	BA08043 MW-41H	Total/NA	Water	PrecSep_0	
MB 160-470230/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-470230/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
480-169633-D-4-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	
480-169633-E-4-D MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-469554/22-A
Matrix: Water
Analysis Batch: 471293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469554

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02136	U	0.0793	0.0793	1.00	0.152	pCi/L	05/05/20 07:05	05/27/20 10:03	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*40 - 110*	*05/05/20 07:05*	*05/27/20 10:03*	*1*

Lab Sample ID: LCS 160-469554/1-A
Matrix: Water
Analysis Batch: 471293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469554

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	14.41		1.54	1.00	0.199	pCi/L	95	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*78.6*		*40 - 110*

Lab Sample ID: 400-187293-1 MS
Matrix: Water
Analysis Batch: 471293

Client Sample ID: BA07526 MW-6
Prep Type: Total/NA
Prep Batch: 469554

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.317		15.1	13.58		1.45	1.00	0.169	pCi/L	88	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*88.0*		*40 - 110*

Lab Sample ID: 400-187293-1 MSD
Matrix: Water
Analysis Batch: 471293

Client Sample ID: BA07526 MW-6
Prep Type: Total/NA
Prep Batch: 469554

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.317		15.1	14.57		1.54	1.00	0.183	pCi/L	94	75 - 138	0.33	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*87.0*		*40 - 110*

Lab Sample ID: 400-187293-11 MS
Matrix: Water
Analysis Batch: 471293

Client Sample ID: BA07536 MW-53H
Prep Type: Total/NA
Prep Batch: 469554

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.607		15.1	13.49		1.44	1.00	0.170	pCi/L	85	75 - 138		

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

Lab Sample ID: 400-187293-11 MS — **Client Sample ID: BA07536 MW-53H**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471293 — **Prep Batch: 469554**

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	87.3		40 - 110

Lab Sample ID: 400-187293-11 MSD — **Client Sample ID: BA07536 MW-53H**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471293 — **Prep Batch: 469554**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.607		15.1	13.55		1.44	1.00	0.149	pCi/L	86	75 - 138	0.02	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	86.4		40 - 110

Lab Sample ID: MB 160-469558/22-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471298 — **Prep Batch: 469558**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0000	U	0.0517	0.0517	1.00	0.111	pCi/L	05/05/20 07:44	05/27/20 07:42	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110	05/05/20 07:44	05/27/20 07:42	1

Lab Sample ID: LCS 160-469558/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471298 — **Prep Batch: 469558**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	13.21		1.38	1.00	0.104	pCi/L	87	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	86.4		40 - 110

Lab Sample ID: 400-187293-30 MS — **Client Sample ID: BA07555 MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471298 — **Prep Batch: 469558**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.0480	U	15.1	12.28		1.28	1.00	0.0942	pCi/L	81	75 - 138		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	93.7		40 - 110

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

Lab Sample ID: 400-187293-30 MSD — **Client Sample ID: BA07555 MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471298 — **Prep Batch: 469558**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.0480	U	15.1	12.96		1.36	1.00	0.0918	pCi/L	85	75 - 138	0.26	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*86.4*		*40 - 110*

Lab Sample ID: MB 160-469586/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471293 — **Prep Batch: 469586**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02274	U	0.0655	0.0656	1.00	0.124	pCi/L	05/05/20 12:05	05/27/20 06:25	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.4*		*40 - 110*	*05/05/20 12:05*	*05/27/20 06:25*	*1*

Lab Sample ID: LCS 160-469586/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471293 — **Prep Batch: 469586**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	13.50		1.39	1.00	0.105	pCi/L	89	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*99.7*		*40 - 110*

Lab Sample ID: LCSD 160-469586/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471293 — **Prep Batch: 469586**

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226			15.1	13.31		1.37	1.00	0.0949	pCi/L	88	75 - 125	0.07	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*102*		*40 - 110*

Lab Sample ID: MB 160-469588/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471435 — **Prep Batch: 469588**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01824	U	0.0568	0.0568	1.00	0.107	pCi/L	05/05/20 12:28	05/29/20 06:41	1

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

Lab Sample ID: MB 160-469588/23-A
Matrix: Water
Analysis Batch: 471435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469588

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		40 - 110	05/05/20 12:28	05/29/20 06:41	1

Lab Sample ID: LCS 160-469588/1-A
Matrix: Water
Analysis Batch: 471435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469588

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.3	10.60		1.09	1.00	0.0822	pCi/L	93	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	101		40 - 110

Lab Sample ID: LCSD 160-469588/2-A
Matrix: Water
Analysis Batch: 471435

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 469588

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226			11.3	9.852		1.03	1.00	0.0812	pCi/L	87	75 - 125	0.35	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	97.0		40 - 110

Lab Sample ID: MB 160-470229/23-A
Matrix: Water
Analysis Batch: 471868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470229

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03524	U	0.0432	0.0433	1.00	0.0704	pCi/L	05/12/20 15:03	06/03/20 07:57	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110	05/12/20 15:03	06/03/20 07:57	1

Lab Sample ID: LCS 160-470229/1-A
Matrix: Water
Analysis Batch: 471868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470229

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.3	10.62		1.08	1.00	0.0635	pCi/L	94	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	101		40 - 110

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

Lab Sample ID: 480-169633-D-4-A MS
Matrix: Water
Analysis Batch: 471868

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 470229

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	0.178		11.3	10.59		1.08	1.00	0.0644	pCi/L	92	75 - 138

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*98.5*		*40 - 110*

Lab Sample ID: 480-169633-E-4-B MSD
Matrix: Water
Analysis Batch: 471868

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 470229

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.178		11.3	9.988		1.03	1.00	0.0727	pCi/L	86	75 - 138	0.28	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*96.4*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-469556/22-A
Matrix: Water
Analysis Batch: 470863

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469556

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.06862	U	0.309	0.309	1.00	0.572	pCi/L	05/05/20 07:42	05/19/20 14:37	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:37*	*1*
Y Carrier	*85.2*		*40 - 110*	*05/05/20 07:42*	*05/19/20 14:37*	*1*

Lab Sample ID: LCS 160-469556/1-A
Matrix: Water
Analysis Batch: 470898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469556

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228			11.8	10.56		1.40	1.00	0.756	pCi/L	90	75 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*78.6*		*40 - 110*
Y Carrier	*84.1*		*40 - 110*

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

Lab Sample ID: 400-187293-1 MS — **Client Sample ID: BA07526 MW-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470898 — **Prep Batch: 469556**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.362	U	11.8	9.636		1.26	1.00	0.563	pCi/L	79	45 - 150

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*88.0*		*40 - 110*
Y Carrier	*82.6*		*40 - 110*

Lab Sample ID: 400-187293-1 MSD — **Client Sample ID: BA07526 MW-6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470898 — **Prep Batch: 469556**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.362	U	11.8	8.077		1.10	1.00	0.576	pCi/L	66	45 - 150	0.66	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*87.0*		*40 - 110*
Y Carrier	*84.9*		*40 - 110*

Lab Sample ID: 400-187293-11 MS — **Client Sample ID: BA07536 MW-53H**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470863 — **Prep Batch: 469556**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.522	U	11.8	10.19		1.30	1.00	0.586	pCi/L	82	45 - 150

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*87.3*		*40 - 110*
Y Carrier	*84.5*		*40 - 110*

Lab Sample ID: 400-187293-11 MSD — **Client Sample ID: BA07536 MW-53H**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470863 — **Prep Batch: 469556**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.522	U	11.8	9.945		1.25	1.00	0.501	pCi/L	80	45 - 150	0.1	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*86.4*		*40 - 110*
Y Carrier	*88.6*		*40 - 110*

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

Lab Sample ID: MB 160-469561/22-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470395 — **Prep Batch: 469561**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2152	U	0.341	0.341	1.00	0.574	pCi/L	05/05/20 08:09	05/14/20 14:05	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*
Y Carrier	*80.7*		*40 - 110*	*05/05/20 08:09*	*05/14/20 14:05*	*1*

Lab Sample ID: LCS 160-469561/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470411 — **Prep Batch: 469561**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			11.8	10.79		1.37	1.00	0.670	pCi/L	91	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*86.4*		*40 - 110*
Y Carrier	*83.4*		*40 - 110*

Lab Sample ID: 400-187293-30 MS — **Client Sample ID: BA07555 MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470395 — **Prep Batch: 469561**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.208	U	11.8	9.758		1.22	1.00	0.530	pCi/L	81	45 - 150		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*93.7*		*40 - 110*
Y Carrier	*84.9*		*40 - 110*

Lab Sample ID: 400-187293-30 MSD — **Client Sample ID: BA07555 MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470395 — **Prep Batch: 469561**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.208	U	11.8	10.41		1.30	1.00	0.558	pCi/L	87	45 - 150	0.26	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*86.4*		*40 - 110*
Y Carrier	*87.5*		*40 - 110*

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

Lab Sample ID: MB 160-469587/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470411 — **Prep Batch: 469587**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4200	U	0.401	0.403	1.00	0.651	pCi/L	05/05/20 12:26	05/14/20 14:11	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.4*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:11*	*1*
Y Carrier	*88.2*		*40 - 110*	*05/05/20 12:26*	*05/14/20 14:11*	*1*

Lab Sample ID: LCS 160-469587/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470481 — **Prep Batch: 469587**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			11.8	11.36		1.34	1.00	0.523	pCi/L	96	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*99.7*		*40 - 110*
Y Carrier	*89.7*		*40 - 110*

Lab Sample ID: LCSD 160-469587/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470481 — **Prep Batch: 469587**

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228			11.8	11.24		1.33	1.00	0.504	pCi/L	95	75 - 125	0.05	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*102*		*40 - 110*
Y Carrier	*89.3*		*40 - 110*

Lab Sample ID: MB 160-469644/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470883 — **Prep Batch: 469644**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.03416	U	0.206	0.206	1.00	0.362	pCi/L	05/05/20 12:53	05/19/20 07:32	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.4*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:32*	*1*
Y Carrier	*89.7*		*40 - 110*	*05/05/20 12:53*	*05/19/20 07:32*	*1*

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

Lab Sample ID: LCS 160-469644/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470884 — **Prep Batch: 469644**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			8.83	8.479		0.966	1.00	0.327	pCi/L	96	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*101*		*40 - 110*
Y Carrier	*92.3*		*40 - 110*

Lab Sample ID: LCSD 160-469644/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 470884 — **Prep Batch: 469644**

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228			8.83	8.251		0.948	1.00	0.325	pCi/L	93	75 - 125	0.12	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*97.0*		*40 - 110*
Y Carrier	*94.6*		*40 - 110*

Lab Sample ID: MB 160-470230/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471024 — **Prep Batch: 470230**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2201	U	0.226	0.227	1.00	0.368	pCi/L	05/12/20 15:38	05/21/20 16:34	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*05/12/20 15:38*	*05/21/20 16:34*	*1*
Y Carrier	*88.2*		*40 - 110*	*05/12/20 15:38*	*05/21/20 16:34*	*1*

Lab Sample ID: LCS 160-470230/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 471097 — **Prep Batch: 470230**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			8.82	8.420		0.992	1.00	0.381	pCi/L	95	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*101*		*40 - 110*
Y Carrier	*90.5*		*40 - 110*

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

Lab Sample ID: 480-169633-D-4-B MS
Matrix: Water
Analysis Batch: 471024

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 470230

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.0754	U	8.82	8.879		1.03	1.00	0.346	pCi/L	100	45 - 150		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*98.5*		*40 - 110*
Y Carrier	*89.0*		*40 - 110*

Lab Sample ID: 480-169633-E-4-D MSD
Matrix: Water
Analysis Batch: 471024

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 470230

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.0754	U	8.82	7.658		0.929	1.00	0.378	pCi/L	86	45 - 150	0.62	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*96.4*		*40 - 110*
Y Carrier	*86.7*		*40 - 110*

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAm
THE LEADER IN ENVIRO

400-187293 COC

Client Information (Sub Contract Lab)	Sampler: Anthony Goggins	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 5
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1275	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA07526	4/21/20	08:35	G	Water		X				X	3	MW-6
BA07527	4/21/20	09:25	G	Water						X	1	MW-7
BA07528	4/21/20	09:25	G	Water						X	1	MW-7 DUP (Sample Duplicate)
BA07529	4/21/20	10:28	G	Water						X	1	MW-8
BA07530	4/21/20	11:22	G	Water						X	1	MW-9
BA07531	4/21/20	13:17	G	Water						X	1	MW-30
BA07532	4/21/20	13:58	G	Water						X	1	FB-5 (Field Blank)
BA07533	4/21/20	14:18	G	Water						X	1	MW-5
BA07534	4/21/20	15:28	G	Water						X	1	MW-35H
BA07535	4/21/20	16:05	G	Water						X	1	EB-1 (Equipment Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 4/24/2020 09:00	Water APC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4-27-20 13:05	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver. 09/20/2016

22.6°C, 21.3°C, 23.0°C, 22.6°C IR8

TestAmerica Pensacola
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Pensacola, FL 32514
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 2 of 5
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1275	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA07536	4/20/20	12:07	G	Water		X				X	3	MW-53H
BA07537	4/20/20	13:06	G	Water						X	1	MW-54H
BA07538	4/20/20	13:06	G	Water						X	1	MW-54H DUP (Sample Duplicate)
BA07539	4/20/20	14:10	G	Water						X	1	MW-57H
BA07540	4/20/20	15:14	G	Water						X	1	MW-44H
BA07541	4/20/20	16:25	G	Water						X	1	PZ-4
BA07542	4/20/20	17:23	G	Water						X	1	MW-3
BA07543	4/21/20	08:17	G	Water						X	1	MW-2
BA07544	4/21/20	09:06	G	Water						X	1	MW-1
BA07545	4/21/20	09:06	G	Water						X	1	MW-1 DUP (Sample Duplicate)
BA07546	4/21/20	10:16	G	Water						X	1	MW-12
BA07547	4/21/20	11:06	G	Water						X	1	MW-48H
BA07548	4/21/20	12:08	G	Water						X	1	MW-21
BA07549	4/21/20	13:37	G	Water						X	1	MW-43H
BA07550	4/21/20	15:00	G	Water						X	1	MW-42H
BA07551	4/21/20	16:37	G	Water						X	1	MW-49H
BA07552	4/21/20	16:56	G	Water						X	1	FB-3 (Field Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 4/24/2020 09:00	Water APC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4-27-20 13:05	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

22.6°, 21.3°, 23.0°, 22.6° IR8

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 3 of 5
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1275	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra228Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA07553	4/20/20	12:50	G	Water						X	1	MW-45H
BA07554	4/20/20	12:50	G	Water						X	1	MW-45H DUP (Sample Duplicate)
BA07555	4/20/20	14:10	G	Water		X				X	3	MW-13
BA07556	4/20/20	15:30	G	Water						X	1	MW-40H
BA07557	4/20/20	16:15	G	Water						X	1	MW-15
BA07558	4/20/20	17:43	G	Water						X	1	MW-16
BA07559	4/20/20	18:00	G	Water						X	1	FB-1 (Field Blank)
BA07560	4/21/20	09:00	G	Water						X	1	MW-18
BA07561	4/21/20	09:55	G	Water						X	1	MW-17
BA07562	4/21/20	11:25	G	Water						X	1	MW-14
BA07563	4/21/20	13:00	G	Water						X	1	MW-29
BA07564	4/21/20	13:55	G	Water						X	1	MW-28
BA07565	4/21/20	14:40	G	Water						X	1	MW-27
BA07566	4/21/20	15:20	G	Water						X	1	MW-26
BA07567	4/21/20	16:35	G	Water						X	1	MW-23

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 4/24/2020 09:00	Water APC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4-27-20 13:05	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

22.6°c, 21.3°c, 23.0°c, 22.6°c IR8

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 4 of 5
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1275	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA07736	4/22/20	09:26	G	Water						X	1	MW-32
BA07737	4/22/20	10:26	G	Water						X	1	MW-33
BA07738	4/22/20	10:57	G	Water						X	1	FB-4 (Field Blank)
BA07739	4/22/20	11:25	G	Water						X	1	MW-31
BA07740	4/22/20	12:34	G	Water						X	1	MW-34HA
BA07741	4/22/20	13:40	G	Water						X	1	MW-10
BA07742	4/22/20	14:27	G	Water						X	1	MW-11
BA07743	4/22/20	14:43	G	Water						X	1	EB-2 (Equipment Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 4/24/2020 09:00	Water APC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4.27.20 13:05	Company

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

22.6°C, 21.3°C, 23.0°C, 22.6°C, IR8

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 5 of 5
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1275	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA07744	4/22/20	09:30	G	Water						X	1	MW-25
BA07745	4/22/20	10:30	G	Water						X	1	MW-24
BA07746	4/22/20	10:30	G	Water						X	1	MW-24 DUP (Sample Duplicate)
BA07747	4/22/20	11:45	G	Water						X	1	MW-36H
BA07748	4/22/20	12:58	G	Water						X	1	MW-38H
BA07749	4/22/20	14:05	G	Water						X	1	MW-39H
BA07750	4/22/20	14:30	G	Water						X	1	FB-2 (Field Blank)
BA07751	4/22/20	16:00	G	Water						X	1	MW-37H

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 4/24/2020 09:00	Water APC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4-27-20 13:05	Company

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

22.6°c, 21.3°c, 23.0°c, 22.6°c 1R8

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

400-187293 COC

Client Information (Sub Contract Lab)	Sampler: Anthony Goggins	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 6 of 6
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #: 400-187293
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1275	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA08043	4/29/20	12:10	G	Water						X	1	MW-41H

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Laura Midkiff	Date/Time: 4/30/2020 13:00	Water APC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5-5-20 1555 ~~0836~~	Company: JTA PEN
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 24.6°C IR-7		

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-187293-1
SDG Number: Greene County Ash Pond 1275

Login Number: 187293
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	22.6°C, 21.3°C, 23.0°C, 22.6°C IR-8, 24.6°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-187293-1
SDG Number: Greene County Ash Pond 1275

Login Number: 187293
List Number: 2
Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis
List Creation: 04/29/20 09:12 PM

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

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-187293-1
SDG Number: Greene County Ash Pond 1275

Login Number: 187293
List Number: 3
Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis
List Creation: 05/06/20 12:39 PM

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

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	07-01-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-20
Washington	State	C915	05-15-21
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-187293-1
SDG: Greene County Ash Pond 1275

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-1	4/21/2020 8:48	Conductivity	1618.41	uS/cm
GC-AP-MW-1	4/21/2020 8:48	Depth to Water Detail	15.78	ft
GC-AP-MW-1	4/21/2020 8:48	DO	0.83	mg/L
GC-AP-MW-1	4/21/2020 8:48	Oxidation Reduction Potention	25.56	mv
GC-AP-MW-1	4/21/2020 8:48	pH	5.75	pH
GC-AP-MW-1	4/21/2020 8:48	Temperature	19.05	C
GC-AP-MW-1	4/21/2020 8:48	Turbidity	1.27	NTU
GC-AP-MW-1	4/21/2020 8:53	Conductivity	1616.77	uS/cm
GC-AP-MW-1	4/21/2020 8:53	Depth to Water Detail	15.78	ft
GC-AP-MW-1	4/21/2020 8:53	DO	0.71	mg/L
GC-AP-MW-1	4/21/2020 8:53	Oxidation Reduction Potention	24.44	mv
GC-AP-MW-1	4/21/2020 8:53	pH	5.74	pH
GC-AP-MW-1	4/21/2020 8:53	Temperature	19.07	C
GC-AP-MW-1	4/21/2020 8:53	Turbidity	1.03	NTU
GC-AP-MW-1	4/21/2020 8:58	Conductivity	1622.62	uS/cm
GC-AP-MW-1	4/21/2020 8:58	Depth to Water Detail	15.78	ft
GC-AP-MW-1	4/21/2020 8:58	DO	0.67	mg/L
GC-AP-MW-1	4/21/2020 8:58	Oxidation Reduction Potention	24.28	mv
GC-AP-MW-1	4/21/2020 8:58	pH	5.73	pH
GC-AP-MW-1	4/21/2020 8:58	Temperature	19.11	C
GC-AP-MW-1	4/21/2020 8:58	Turbidity	0.77	NTU
GC-AP-MW-1	4/21/2020 9:03	Conductivity	1623.14	uS/cm
GC-AP-MW-1	4/21/2020 9:03	Depth to Water Detail	15.78	ft
GC-AP-MW-1	4/21/2020 9:03	DO	0.63	mg/L
GC-AP-MW-1	4/21/2020 9:03	Oxidation Reduction Potention	23.91	mv
GC-AP-MW-1	4/21/2020 9:03	pH	5.72	pH
GC-AP-MW-1	4/21/2020 9:03	Temperature	19.11	C
GC-AP-MW-1	4/21/2020 9:03	Turbidity	0.7	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-2	4/21/2020 7:59	Conductivity	1115.87	uS/cm
GC-AP-MW-2	4/21/2020 7:59	Depth to Water Detail	8.35	ft
GC-AP-MW-2	4/21/2020 7:59	DO	0.59	mg/L
GC-AP-MW-2	4/21/2020 7:59	Oxidation Reduction Potention	-18.5	mv
GC-AP-MW-2	4/21/2020 7:59	pH	6.01	pH
GC-AP-MW-2	4/21/2020 7:59	Temperature	19.51	C
GC-AP-MW-2	4/21/2020 7:59	Turbidity	6.32	NTU
GC-AP-MW-2	4/21/2020 8:04	Conductivity	1113.3	uS/cm
GC-AP-MW-2	4/21/2020 8:04	Depth to Water Detail	8.39	ft
GC-AP-MW-2	4/21/2020 8:04	DO	0.52	mg/L
GC-AP-MW-2	4/21/2020 8:04	Oxidation Reduction Potention	-13.03	mv
GC-AP-MW-2	4/21/2020 8:04	pH	5.99	pH
GC-AP-MW-2	4/21/2020 8:04	Temperature	19.53	C
GC-AP-MW-2	4/21/2020 8:04	Turbidity	3.25	NTU
GC-AP-MW-2	4/21/2020 8:09	Conductivity	1085.5	uS/cm
GC-AP-MW-2	4/21/2020 8:09	Depth to Water Detail	8.39	ft
GC-AP-MW-2	4/21/2020 8:09	DO	0.47	mg/L
GC-AP-MW-2	4/21/2020 8:09	Oxidation Reduction Potention	-10.4	mv
GC-AP-MW-2	4/21/2020 8:09	pH	5.98	pH
GC-AP-MW-2	4/21/2020 8:09	Temperature	19.56	C
GC-AP-MW-2	4/21/2020 8:09	Turbidity	2.19	NTU
GC-AP-MW-2	4/21/2020 8:14	Conductivity	1118.82	uS/cm
GC-AP-MW-2	4/21/2020 8:14	Depth to Water Detail	8.39	ft
GC-AP-MW-2	4/21/2020 8:14	DO	0.45	mg/L
GC-AP-MW-2	4/21/2020 8:14	Oxidation Reduction Potention	-10.65	mv
GC-AP-MW-2	4/21/2020 8:14	pH	5.99	pH
GC-AP-MW-2	4/21/2020 8:14	Temperature	19.54	C
GC-AP-MW-2	4/21/2020 8:14	Turbidity	2.25	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-3	4/20/2020 16:55	Conductivity	496.47	uS/cm
GC-AP-MW-3	4/20/2020 16:55	Depth to Water Detail	8.65	ft
GC-AP-MW-3	4/20/2020 16:55	DO	0.65	mg/L
GC-AP-MW-3	4/20/2020 16:55	Oxidation Reduction Potention	-19.01	mv
GC-AP-MW-3	4/20/2020 16:55	pH	6.23	pH
GC-AP-MW-3	4/20/2020 16:55	Temperature	19.81	C
GC-AP-MW-3	4/20/2020 16:55	Turbidity	1.15	NTU
GC-AP-MW-3	4/20/2020 17:00	Conductivity	546.04	uS/cm
GC-AP-MW-3	4/20/2020 17:00	Depth to Water Detail	8.73	ft
GC-AP-MW-3	4/20/2020 17:00	DO	0.51	mg/L
GC-AP-MW-3	4/20/2020 17:00	Oxidation Reduction Potention	-27.64	mv
GC-AP-MW-3	4/20/2020 17:00	pH	6.31	pH
GC-AP-MW-3	4/20/2020 17:00	Temperature	19.79	C
GC-AP-MW-3	4/20/2020 17:00	Turbidity	0.66	NTU
GC-AP-MW-3	4/20/2020 17:05	Conductivity	519.04	uS/cm
GC-AP-MW-3	4/20/2020 17:05	Depth to Water Detail	8.77	ft
GC-AP-MW-3	4/20/2020 17:05	DO	0.46	mg/L
GC-AP-MW-3	4/20/2020 17:05	Oxidation Reduction Potention	-33.5	mv
GC-AP-MW-3	4/20/2020 17:05	pH	6.36	pH
GC-AP-MW-3	4/20/2020 17:05	Temperature	19.8	C
GC-AP-MW-3	4/20/2020 17:05	Turbidity	0.82	NTU
GC-AP-MW-3	4/20/2020 17:10	Conductivity	498.54	uS/cm
GC-AP-MW-3	4/20/2020 17:10	Depth to Water Detail	8.82	ft
GC-AP-MW-3	4/20/2020 17:10	DO	0.43	mg/L
GC-AP-MW-3	4/20/2020 17:10	Oxidation Reduction Potention	-37.01	mv
GC-AP-MW-3	4/20/2020 17:10	pH	6.38	pH
GC-AP-MW-3	4/20/2020 17:10	Temperature	19.77	C
GC-AP-MW-3	4/20/2020 17:10	Turbidity	1.04	NTU
GC-AP-MW-3	4/20/2020 17:15	Conductivity	487.94	uS/cm
GC-AP-MW-3	4/20/2020 17:15	Depth to Water Detail	8.88	ft
GC-AP-MW-3	4/20/2020 17:15	DO	0.42	mg/L
GC-AP-MW-3	4/20/2020 17:15	Oxidation Reduction Potention	-38.83	mv
GC-AP-MW-3	4/20/2020 17:15	pH	6.39	pH
GC-AP-MW-3	4/20/2020 17:15	Temperature	19.78	C
GC-AP-MW-3	4/20/2020 17:15	Turbidity	0.6	NTU
GC-AP-MW-3	4/20/2020 17:20	Conductivity	485.37	uS/cm
GC-AP-MW-3	4/20/2020 17:20	Depth to Water Detail	8.93	ft
GC-AP-MW-3	4/20/2020 17:20	DO	0.42	mg/L
GC-AP-MW-3	4/20/2020 17:20	Oxidation Reduction Potention	-40.68	mv
GC-AP-MW-3	4/20/2020 17:20	pH	6.4	pH
GC-AP-MW-3	4/20/2020 17:20	Temperature	19.78	C
GC-AP-MW-3	4/20/2020 17:20	Turbidity	0.68	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	4/20/2020 15:51	Conductivity	711.73	uS/cm
GC-AP-PZ-4	4/20/2020 15:51	Depth to Water Detail	8.96	ft
GC-AP-PZ-4	4/20/2020 15:51	DO	0.47	mg/L
GC-AP-PZ-4	4/20/2020 15:51	Oxidation Reduction Potention	85.19	mv
GC-AP-PZ-4	4/20/2020 15:51	pH	5.72	pH
GC-AP-PZ-4	4/20/2020 15:51	Temperature	21.41	C
GC-AP-PZ-4	4/20/2020 15:51	Turbidity	1.01	NTU
GC-AP-PZ-4	4/20/2020 15:56	Conductivity	749.51	uS/cm
GC-AP-PZ-4	4/20/2020 15:56	Depth to Water Detail	8.96	ft
GC-AP-PZ-4	4/20/2020 15:56	DO	0.41	mg/L
GC-AP-PZ-4	4/20/2020 15:56	Oxidation Reduction Potention	72.69	mv
GC-AP-PZ-4	4/20/2020 15:56	pH	5.8	pH
GC-AP-PZ-4	4/20/2020 15:56	Temperature	21.44	C
GC-AP-PZ-4	4/20/2020 15:56	Turbidity	0.81	NTU
GC-AP-PZ-4	4/20/2020 16:01	Conductivity	794.85	uS/cm
GC-AP-PZ-4	4/20/2020 16:01	Depth to Water Detail	8.96	ft
GC-AP-PZ-4	4/20/2020 16:01	DO	0.34	mg/L
GC-AP-PZ-4	4/20/2020 16:01	Oxidation Reduction Potention	62.73	mv
GC-AP-PZ-4	4/20/2020 16:01	pH	5.87	pH
GC-AP-PZ-4	4/20/2020 16:01	Temperature	21.36	C
GC-AP-PZ-4	4/20/2020 16:01	Turbidity	0.45	NTU
GC-AP-PZ-4	4/20/2020 16:06	Conductivity	824.8	uS/cm
GC-AP-PZ-4	4/20/2020 16:06	Depth to Water Detail	8.96	ft
GC-AP-PZ-4	4/20/2020 16:06	DO	0.3	mg/L
GC-AP-PZ-4	4/20/2020 16:06	Oxidation Reduction Potention	56.27	mv
GC-AP-PZ-4	4/20/2020 16:06	pH	5.91	pH
GC-AP-PZ-4	4/20/2020 16:06	Temperature	21.39	C
GC-AP-PZ-4	4/20/2020 16:06	Turbidity	0.51	NTU
GC-AP-PZ-4	4/20/2020 16:11	Conductivity	852.73	uS/cm
GC-AP-PZ-4	4/20/2020 16:11	Depth to Water Detail	8.96	ft
GC-AP-PZ-4	4/20/2020 16:11	DO	0.27	mg/L
GC-AP-PZ-4	4/20/2020 16:11	Oxidation Reduction Potention	50.84	mv
GC-AP-PZ-4	4/20/2020 16:11	pH	5.94	pH
GC-AP-PZ-4	4/20/2020 16:11	Temperature	21.37	C
GC-AP-PZ-4	4/20/2020 16:11	Turbidity	0.56	NTU
GC-AP-PZ-4	4/20/2020 16:16	Conductivity	879.83	uS/cm
GC-AP-PZ-4	4/20/2020 16:16	Depth to Water Detail	8.96	ft
GC-AP-PZ-4	4/20/2020 16:16	DO	0.24	mg/L
GC-AP-PZ-4	4/20/2020 16:16	Oxidation Reduction Potention	46.24	mv
GC-AP-PZ-4	4/20/2020 16:16	pH	5.97	pH
GC-AP-PZ-4	4/20/2020 16:16	Temperature	21.41	C
GC-AP-PZ-4	4/20/2020 16:16	Turbidity	0.55	NTU
GC-AP-PZ-4	4/20/2020 16:21	Conductivity	893.72	uS/cm
GC-AP-PZ-4	4/20/2020 16:21	Depth to Water Detail	8.96	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	4/20/2020 16:21	DO	0.22	mg/L
GC-AP-PZ-4	4/20/2020 16:21	Oxidation Reduction Potention	42.19	mv
GC-AP-PZ-4	4/20/2020 16:21	pH	5.99	pH
GC-AP-PZ-4	4/20/2020 16:21	Temperature	21.41	C
GC-AP-PZ-4	4/20/2020 16:21	Turbidity	0.38	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-5	4/21/2020 13:55	Conductivity	758.93	uS/cm
GC-AP-MW-5	4/21/2020 13:55	Depth to Water Detail	10.15	ft
GC-AP-MW-5	4/21/2020 13:55	DO	1.27	mg/L
GC-AP-MW-5	4/21/2020 13:55	Oxidation Reduction Potention	-68.72	mv
GC-AP-MW-5	4/21/2020 13:55	pH	6.42	pH
GC-AP-MW-5	4/21/2020 13:55	Temperature	20.38	C
GC-AP-MW-5	4/21/2020 13:55	Turbidity	34.9	NTU
GC-AP-MW-5	4/21/2020 14:00	Conductivity	759.72	uS/cm
GC-AP-MW-5	4/21/2020 14:00	Depth to Water Detail	10.15	ft
GC-AP-MW-5	4/21/2020 14:00	DO	1.1	mg/L
GC-AP-MW-5	4/21/2020 14:00	Oxidation Reduction Potention	-65.55	mv
GC-AP-MW-5	4/21/2020 14:00	pH	6.38	pH
GC-AP-MW-5	4/21/2020 14:00	Temperature	20.29	C
GC-AP-MW-5	4/21/2020 14:00	Turbidity	23.2	NTU
GC-AP-MW-5	4/21/2020 14:05	Conductivity	760.99	uS/cm
GC-AP-MW-5	4/21/2020 14:05	Depth to Water Detail	10.15	ft
GC-AP-MW-5	4/21/2020 14:05	DO	1.05	mg/L
GC-AP-MW-5	4/21/2020 14:05	Oxidation Reduction Potention	-66.19	mv
GC-AP-MW-5	4/21/2020 14:05	pH	6.4	pH
GC-AP-MW-5	4/21/2020 14:05	Temperature	20.36	C
GC-AP-MW-5	4/21/2020 14:05	Turbidity	13.9	NTU
GC-AP-MW-5	4/21/2020 14:10	Conductivity	762.69	uS/cm
GC-AP-MW-5	4/21/2020 14:10	Depth to Water Detail	10.15	ft
GC-AP-MW-5	4/21/2020 14:10	DO	1	mg/L
GC-AP-MW-5	4/21/2020 14:10	Oxidation Reduction Potention	-67.99	mv
GC-AP-MW-5	4/21/2020 14:10	pH	6.45	pH
GC-AP-MW-5	4/21/2020 14:10	Temperature	20.32	C
GC-AP-MW-5	4/21/2020 14:10	Turbidity	7.8	NTU
GC-AP-MW-5	4/21/2020 14:15	Conductivity	763.59	uS/cm
GC-AP-MW-5	4/21/2020 14:15	Depth to Water Detail	10.15	ft
GC-AP-MW-5	4/21/2020 14:15	DO	0.98	mg/L
GC-AP-MW-5	4/21/2020 14:15	Oxidation Reduction Potention	-70.01	mv
GC-AP-MW-5	4/21/2020 14:15	pH	6.5	pH
GC-AP-MW-5	4/21/2020 14:15	Temperature	20.31	C
GC-AP-MW-5	4/21/2020 14:15	Turbidity	3.38	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-6	4/21/2020 8:16	Conductivity	1168	uS/cm
GC-AP-MW-6	4/21/2020 8:16	Depth to Water Detail	5.21	ft
GC-AP-MW-6	4/21/2020 8:16	DO	0.55	mg/L
GC-AP-MW-6	4/21/2020 8:16	Oxidation Reduction Potention	196.75	mv
GC-AP-MW-6	4/21/2020 8:16	pH	6.56	pH
GC-AP-MW-6	4/21/2020 8:16	Temperature	19.69	C
GC-AP-MW-6	4/21/2020 8:16	Turbidity	2.18	NTU
GC-AP-MW-6	4/21/2020 8:21	Conductivity	1187.88	uS/cm
GC-AP-MW-6	4/21/2020 8:21	Depth to Water Detail	5.21	ft
GC-AP-MW-6	4/21/2020 8:21	DO	0.46	mg/L
GC-AP-MW-6	4/21/2020 8:21	Oxidation Reduction Potention	180.8	mv
GC-AP-MW-6	4/21/2020 8:21	pH	6.54	pH
GC-AP-MW-6	4/21/2020 8:21	Temperature	19.72	C
GC-AP-MW-6	4/21/2020 8:21	Turbidity	2.06	NTU
GC-AP-MW-6	4/21/2020 8:26	Conductivity	1187.57	uS/cm
GC-AP-MW-6	4/21/2020 8:26	Depth to Water Detail	5.21	ft
GC-AP-MW-6	4/21/2020 8:26	DO	0.42	mg/L
GC-AP-MW-6	4/21/2020 8:26	Oxidation Reduction Potention	157.39	mv
GC-AP-MW-6	4/21/2020 8:26	pH	6.54	pH
GC-AP-MW-6	4/21/2020 8:26	Temperature	19.79	C
GC-AP-MW-6	4/21/2020 8:26	Turbidity	2.09	NTU
GC-AP-MW-6	4/21/2020 8:31	Conductivity	1179.31	uS/cm
GC-AP-MW-6	4/21/2020 8:31	Depth to Water Detail	5.21	ft
GC-AP-MW-6	4/21/2020 8:31	DO	0.4	mg/L
GC-AP-MW-6	4/21/2020 8:31	Oxidation Reduction Potention	131.74	mv
GC-AP-MW-6	4/21/2020 8:31	pH	6.54	pH
GC-AP-MW-6	4/21/2020 8:31	Temperature	19.84	C
GC-AP-MW-6	4/21/2020 8:31	Turbidity	2.06	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-7	4/21/2020 9:08	Conductivity	1440.95	uS/cm
GC-AP-MW-7	4/21/2020 9:08	Depth to Water Detail	8.2	ft
GC-AP-MW-7	4/21/2020 9:08	DO	0.61	mg/L
GC-AP-MW-7	4/21/2020 9:08	Oxidation Reduction Potention	126.8	mv
GC-AP-MW-7	4/21/2020 9:08	pH	6.33	pH
GC-AP-MW-7	4/21/2020 9:08	Temperature	19.5	C
GC-AP-MW-7	4/21/2020 9:08	Turbidity	2.04	NTU
GC-AP-MW-7	4/21/2020 9:13	Conductivity	1471.1	uS/cm
GC-AP-MW-7	4/21/2020 9:13	Depth to Water Detail	8.2	ft
GC-AP-MW-7	4/21/2020 9:13	DO	0.53	mg/L
GC-AP-MW-7	4/21/2020 9:13	Oxidation Reduction Potention	115.61	mv
GC-AP-MW-7	4/21/2020 9:13	pH	6.35	pH
GC-AP-MW-7	4/21/2020 9:13	Temperature	19.54	C
GC-AP-MW-7	4/21/2020 9:13	Turbidity	2.09	NTU
GC-AP-MW-7	4/21/2020 9:18	Conductivity	1477.76	uS/cm
GC-AP-MW-7	4/21/2020 9:18	Depth to Water Detail	8.2	ft
GC-AP-MW-7	4/21/2020 9:18	DO	0.47	mg/L
GC-AP-MW-7	4/21/2020 9:18	Oxidation Reduction Potention	106.84	mv
GC-AP-MW-7	4/21/2020 9:18	pH	6.38	pH
GC-AP-MW-7	4/21/2020 9:18	Temperature	19.6	C
GC-AP-MW-7	4/21/2020 9:18	Turbidity	2.04	NTU
GC-AP-MW-7	4/21/2020 9:23	Conductivity	1484.22	uS/cm
GC-AP-MW-7	4/21/2020 9:23	Depth to Water Detail	8.2	ft
GC-AP-MW-7	4/21/2020 9:23	DO	0.44	mg/L
GC-AP-MW-7	4/21/2020 9:23	Oxidation Reduction Potention	101.64	mv
GC-AP-MW-7	4/21/2020 9:23	pH	6.39	pH
GC-AP-MW-7	4/21/2020 9:23	Temperature	19.63	C
GC-AP-MW-7	4/21/2020 9:23	Turbidity	2.08	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-8	4/21/2020 10:08	Conductivity	1042.6	uS/cm
GC-AP-MW-8	4/21/2020 10:08	Depth to Water Detail	8.4	ft
GC-AP-MW-8	4/21/2020 10:08	DO	0.7	mg/L
GC-AP-MW-8	4/21/2020 10:08	Oxidation Reduction Potention	145.73	mv
GC-AP-MW-8	4/21/2020 10:08	pH	6.04	pH
GC-AP-MW-8	4/21/2020 10:08	Temperature	19.45	C
GC-AP-MW-8	4/21/2020 10:08	Turbidity	1.96	NTU
GC-AP-MW-8	4/21/2020 10:13	Conductivity	1042.87	uS/cm
GC-AP-MW-8	4/21/2020 10:13	Depth to Water Detail	8.4	ft
GC-AP-MW-8	4/21/2020 10:13	DO	0.58	mg/L
GC-AP-MW-8	4/21/2020 10:13	Oxidation Reduction Potention	143.12	mv
GC-AP-MW-8	4/21/2020 10:13	pH	6.01	pH
GC-AP-MW-8	4/21/2020 10:13	Temperature	19.45	C
GC-AP-MW-8	4/21/2020 10:13	Turbidity	2.08	NTU
GC-AP-MW-8	4/21/2020 10:18	Conductivity	1056.71	uS/cm
GC-AP-MW-8	4/21/2020 10:18	Depth to Water Detail	8.4	ft
GC-AP-MW-8	4/21/2020 10:18	DO	0.55	mg/L
GC-AP-MW-8	4/21/2020 10:18	Oxidation Reduction Potention	139.77	mv
GC-AP-MW-8	4/21/2020 10:18	pH	6.04	pH
GC-AP-MW-8	4/21/2020 10:18	Temperature	19.47	C
GC-AP-MW-8	4/21/2020 10:18	Turbidity	2.14	NTU
GC-AP-MW-8	4/21/2020 10:23	Conductivity	1070.25	uS/cm
GC-AP-MW-8	4/21/2020 10:23	Depth to Water Detail	8.4	ft
GC-AP-MW-8	4/21/2020 10:23	DO	0.48	mg/L
GC-AP-MW-8	4/21/2020 10:23	Oxidation Reduction Potention	136.95	mv
GC-AP-MW-8	4/21/2020 10:23	pH	6.06	pH
GC-AP-MW-8	4/21/2020 10:23	Temperature	19.47	C
GC-AP-MW-8	4/21/2020 10:23	Turbidity	2.06	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-9	4/21/2020 11:03	Conductivity	939.25	uS/cm
GC-AP-MW-9	4/21/2020 11:03	Depth to Water Detail	5.72	ft
GC-AP-MW-9	4/21/2020 11:03	DO	0.66	mg/L
GC-AP-MW-9	4/21/2020 11:03	Oxidation Reduction Potention	-28.5	mv
GC-AP-MW-9	4/21/2020 11:03	pH	6.23	pH
GC-AP-MW-9	4/21/2020 11:03	Temperature	20.02	C
GC-AP-MW-9	4/21/2020 11:03	Turbidity	2.38	NTU
GC-AP-MW-9	4/21/2020 11:08	Conductivity	930.37	uS/cm
GC-AP-MW-9	4/21/2020 11:08	Depth to Water Detail	5.72	ft
GC-AP-MW-9	4/21/2020 11:08	DO	0.52	mg/L
GC-AP-MW-9	4/21/2020 11:08	Oxidation Reduction Potention	-27.41	mv
GC-AP-MW-9	4/21/2020 11:08	pH	6.2	pH
GC-AP-MW-9	4/21/2020 11:08	Temperature	20.07	C
GC-AP-MW-9	4/21/2020 11:08	Turbidity	2.14	NTU
GC-AP-MW-9	4/21/2020 11:13	Conductivity	923.87	uS/cm
GC-AP-MW-9	4/21/2020 11:13	Depth to Water Detail	5.72	ft
GC-AP-MW-9	4/21/2020 11:13	DO	0.47	mg/L
GC-AP-MW-9	4/21/2020 11:13	Oxidation Reduction Potention	-30.99	mv
GC-AP-MW-9	4/21/2020 11:13	pH	6.22	pH
GC-AP-MW-9	4/21/2020 11:13	Temperature	20.09	C
GC-AP-MW-9	4/21/2020 11:13	Turbidity	2.22	NTU
GC-AP-MW-9	4/21/2020 11:18	Conductivity	922.09	uS/cm
GC-AP-MW-9	4/21/2020 11:18	Depth to Water Detail	5.72	ft
GC-AP-MW-9	4/21/2020 11:18	DO	0.45	mg/L
GC-AP-MW-9	4/21/2020 11:18	Oxidation Reduction Potention	-33.19	mv
GC-AP-MW-9	4/21/2020 11:18	pH	6.25	pH
GC-AP-MW-9	4/21/2020 11:18	Temperature	20.12	C
GC-AP-MW-9	4/21/2020 11:18	Turbidity	2.08	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-10	4/22/2020 13:21	Conductivity	420.57	uS/cm
GC-AP-MW-10	4/22/2020 13:21	Depth to Water Detail	2.6	ft
GC-AP-MW-10	4/22/2020 13:21	DO	1.2	mg/L
GC-AP-MW-10	4/22/2020 13:21	Oxidation Reduction Potention	-2.66	mv
GC-AP-MW-10	4/22/2020 13:21	pH	6.31	pH
GC-AP-MW-10	4/22/2020 13:21	Temperature	20.58	C
GC-AP-MW-10	4/22/2020 13:21	Turbidity	43	NTU
GC-AP-MW-10	4/22/2020 13:26	Conductivity	421.36	uS/cm
GC-AP-MW-10	4/22/2020 13:26	Depth to Water Detail	2.6	ft
GC-AP-MW-10	4/22/2020 13:26	DO	1.04	mg/L
GC-AP-MW-10	4/22/2020 13:26	Oxidation Reduction Potention	-14.19	mv
GC-AP-MW-10	4/22/2020 13:26	pH	6.4	pH
GC-AP-MW-10	4/22/2020 13:26	Temperature	20.63	C
GC-AP-MW-10	4/22/2020 13:26	Turbidity	15.41	NTU
GC-AP-MW-10	4/22/2020 13:31	Conductivity	421.69	uS/cm
GC-AP-MW-10	4/22/2020 13:31	Depth to Water Detail	2.6	ft
GC-AP-MW-10	4/22/2020 13:31	DO	0.98	mg/L
GC-AP-MW-10	4/22/2020 13:31	Oxidation Reduction Potention	-19.59	mv
GC-AP-MW-10	4/22/2020 13:31	pH	6.43	pH
GC-AP-MW-10	4/22/2020 13:31	Temperature	20.58	C
GC-AP-MW-10	4/22/2020 13:31	Turbidity	7.56	NTU
GC-AP-MW-10	4/22/2020 13:36	Conductivity	422.35	uS/cm
GC-AP-MW-10	4/22/2020 13:36	Depth to Water Detail	2.6	ft
GC-AP-MW-10	4/22/2020 13:36	DO	0.95	mg/L
GC-AP-MW-10	4/22/2020 13:36	Oxidation Reduction Potention	-21.38	mv
GC-AP-MW-10	4/22/2020 13:36	pH	6.44	pH
GC-AP-MW-10	4/22/2020 13:36	Temperature	20.48	C
GC-AP-MW-10	4/22/2020 13:36	Turbidity	3.19	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-11	4/22/2020 14:09	Conductivity	415.43	uS/cm
GC-AP-MW-11	4/22/2020 14:09	Depth to Water Detail	15.58	ft
GC-AP-MW-11	4/22/2020 14:09	DO	1.11	mg/L
GC-AP-MW-11	4/22/2020 14:09	Oxidation Reduction Potention	38.62	mv
GC-AP-MW-11	4/22/2020 14:09	pH	6.19	pH
GC-AP-MW-11	4/22/2020 14:09	Temperature	20.73	C
GC-AP-MW-11	4/22/2020 14:09	Turbidity	0.84	NTU
GC-AP-MW-11	4/22/2020 14:14	Conductivity	417.33	uS/cm
GC-AP-MW-11	4/22/2020 14:14	Depth to Water Detail	15.58	ft
GC-AP-MW-11	4/22/2020 14:14	DO	0.96	mg/L
GC-AP-MW-11	4/22/2020 14:14	Oxidation Reduction Potention	36.64	mv
GC-AP-MW-11	4/22/2020 14:14	pH	6.22	pH
GC-AP-MW-11	4/22/2020 14:14	Temperature	20.75	C
GC-AP-MW-11	4/22/2020 14:14	Turbidity	0.44	NTU
GC-AP-MW-11	4/22/2020 14:19	Conductivity	416.75	uS/cm
GC-AP-MW-11	4/22/2020 14:19	Depth to Water Detail	15.58	ft
GC-AP-MW-11	4/22/2020 14:19	DO	0.91	mg/L
GC-AP-MW-11	4/22/2020 14:19	Oxidation Reduction Potention	35.92	mv
GC-AP-MW-11	4/22/2020 14:19	pH	6.25	pH
GC-AP-MW-11	4/22/2020 14:19	Temperature	20.77	C
GC-AP-MW-11	4/22/2020 14:19	Turbidity	0.31	NTU
GC-AP-MW-11	4/22/2020 14:24	Conductivity	415.21	uS/cm
GC-AP-MW-11	4/22/2020 14:24	Depth to Water Detail	15.58	ft
GC-AP-MW-11	4/22/2020 14:24	DO	0.87	mg/L
GC-AP-MW-11	4/22/2020 14:24	Oxidation Reduction Potention	34.55	mv
GC-AP-MW-11	4/22/2020 14:24	pH	6.26	pH
GC-AP-MW-11	4/22/2020 14:24	Temperature	20.8	C
GC-AP-MW-11	4/22/2020 14:24	Turbidity	0.53	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-12	4/21/2020 9:58	Conductivity	469.08	uS/cm
GC-AP-MW-12	4/21/2020 9:58	Depth to Water Detail	17.74	ft
GC-AP-MW-12	4/21/2020 9:58	DO	1.02	mg/L
GC-AP-MW-12	4/21/2020 9:58	Oxidation Reduction Potention	22.21	mv
GC-AP-MW-12	4/21/2020 9:58	pH	6.66	pH
GC-AP-MW-12	4/21/2020 9:58	Temperature	17.61	C
GC-AP-MW-12	4/21/2020 9:58	Turbidity	0.57	NTU
GC-AP-MW-12	4/21/2020 10:03	Conductivity	465.57	uS/cm
GC-AP-MW-12	4/21/2020 10:03	Depth to Water Detail	17.74	ft
GC-AP-MW-12	4/21/2020 10:03	DO	0.85	mg/L
GC-AP-MW-12	4/21/2020 10:03	Oxidation Reduction Potention	17.38	mv
GC-AP-MW-12	4/21/2020 10:03	pH	6.81	pH
GC-AP-MW-12	4/21/2020 10:03	Temperature	17.61	C
GC-AP-MW-12	4/21/2020 10:03	Turbidity	0.42	NTU
GC-AP-MW-12	4/21/2020 10:08	Conductivity	465.92	uS/cm
GC-AP-MW-12	4/21/2020 10:08	Depth to Water Detail	17.74	ft
GC-AP-MW-12	4/21/2020 10:08	DO	0.78	mg/L
GC-AP-MW-12	4/21/2020 10:08	Oxidation Reduction Potention	14.26	mv
GC-AP-MW-12	4/21/2020 10:08	pH	6.92	pH
GC-AP-MW-12	4/21/2020 10:08	Temperature	17.66	C
GC-AP-MW-12	4/21/2020 10:08	Turbidity	0.35	NTU
GC-AP-MW-12	4/21/2020 10:13	Conductivity	464.27	uS/cm
GC-AP-MW-12	4/21/2020 10:13	Depth to Water Detail	17.74	ft
GC-AP-MW-12	4/21/2020 10:13	DO	0.72	mg/L
GC-AP-MW-12	4/21/2020 10:13	Oxidation Reduction Potention	14.07	mv
GC-AP-MW-12	4/21/2020 10:13	pH	6.96	pH
GC-AP-MW-12	4/21/2020 10:13	Temperature	17.64	C
GC-AP-MW-12	4/21/2020 10:13	Turbidity	0.6	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-13	4/20/2020 13:47	Conductivity	351.61	uS/cm
GC-AP-MW-13	4/20/2020 13:47	Depth to Water Detail	17.54	ft
GC-AP-MW-13	4/20/2020 13:47	DO	1.95	mg/L
GC-AP-MW-13	4/20/2020 13:47	Oxidation Reduction Potention	76.13	mv
GC-AP-MW-13	4/20/2020 13:47	pH	6.6	pH
GC-AP-MW-13	4/20/2020 13:47	Temperature	17.14	C
GC-AP-MW-13	4/20/2020 13:47	Turbidity	3.06	NTU
GC-AP-MW-13	4/20/2020 13:52	Conductivity	344.63	uS/cm
GC-AP-MW-13	4/20/2020 13:52	Depth to Water Detail	17.54	ft
GC-AP-MW-13	4/20/2020 13:52	DO	2	mg/L
GC-AP-MW-13	4/20/2020 13:52	Oxidation Reduction Potention	81.65	mv
GC-AP-MW-13	4/20/2020 13:52	pH	6.54	pH
GC-AP-MW-13	4/20/2020 13:52	Temperature	17.19	C
GC-AP-MW-13	4/20/2020 13:52	Turbidity	2.54	NTU
GC-AP-MW-13	4/20/2020 13:57	Conductivity	351	uS/cm
GC-AP-MW-13	4/20/2020 13:57	Depth to Water Detail	17.54	ft
GC-AP-MW-13	4/20/2020 13:57	DO	1.8	mg/L
GC-AP-MW-13	4/20/2020 13:57	Oxidation Reduction Potention	82.53	mv
GC-AP-MW-13	4/20/2020 13:57	pH	6.6	pH
GC-AP-MW-13	4/20/2020 13:57	Temperature	17.16	C
GC-AP-MW-13	4/20/2020 13:57	Turbidity	2.62	NTU
GC-AP-MW-13	4/20/2020 14:02	Conductivity	346.38	uS/cm
GC-AP-MW-13	4/20/2020 14:02	Depth to Water Detail	17.54	ft
GC-AP-MW-13	4/20/2020 14:02	DO	1.88	mg/L
GC-AP-MW-13	4/20/2020 14:02	Oxidation Reduction Potention	82.52	mv
GC-AP-MW-13	4/20/2020 14:02	pH	6.62	pH
GC-AP-MW-13	4/20/2020 14:02	Temperature	17.15	C
GC-AP-MW-13	4/20/2020 14:02	Turbidity	2.56	NTU
GC-AP-MW-13	4/20/2020 14:07	Conductivity	348.63	uS/cm
GC-AP-MW-13	4/20/2020 14:07	Depth to Water Detail	17.54	ft
GC-AP-MW-13	4/20/2020 14:07	DO	1.77	mg/L
GC-AP-MW-13	4/20/2020 14:07	Oxidation Reduction Potention	82.51	mv
GC-AP-MW-13	4/20/2020 14:07	pH	6.68	pH
GC-AP-MW-13	4/20/2020 14:07	Temperature	17.24	C
GC-AP-MW-13	4/20/2020 14:07	Turbidity	2.49	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	4/21/2020 11:03	Conductivity	1015.09	uS/cm
GC-AP-MW-14	4/21/2020 11:03	Depth to Water Detail	0.25	ft
GC-AP-MW-14	4/21/2020 11:03	DO	0.61	mg/L
GC-AP-MW-14	4/21/2020 11:03	Oxidation Reduction Potention	-45.27	mv
GC-AP-MW-14	4/21/2020 11:03	pH	6.3	pH
GC-AP-MW-14	4/21/2020 11:03	Temperature	19.48	C
GC-AP-MW-14	4/21/2020 11:03	Turbidity	47.9	NTU
GC-AP-MW-14	4/21/2020 11:08	Conductivity	1015.61	uS/cm
GC-AP-MW-14	4/21/2020 11:08	Depth to Water Detail	0.25	ft
GC-AP-MW-14	4/21/2020 11:08	DO	0.54	mg/L
GC-AP-MW-14	4/21/2020 11:08	Oxidation Reduction Potention	-40.07	mv
GC-AP-MW-14	4/21/2020 11:08	pH	6.22	pH
GC-AP-MW-14	4/21/2020 11:08	Temperature	19.63	C
GC-AP-MW-14	4/21/2020 11:08	Turbidity	34.6	NTU
GC-AP-MW-14	4/21/2020 11:13	Conductivity	1039.7	uS/cm
GC-AP-MW-14	4/21/2020 11:13	Depth to Water Detail	0.25	ft
GC-AP-MW-14	4/21/2020 11:13	DO	0.49	mg/L
GC-AP-MW-14	4/21/2020 11:13	Oxidation Reduction Potention	-39.62	mv
GC-AP-MW-14	4/21/2020 11:13	pH	6.21	pH
GC-AP-MW-14	4/21/2020 11:13	Temperature	19.6	C
GC-AP-MW-14	4/21/2020 11:13	Turbidity	18.6	NTU
GC-AP-MW-14	4/21/2020 11:18	Conductivity	1039.23	uS/cm
GC-AP-MW-14	4/21/2020 11:18	Depth to Water Detail	0.25	ft
GC-AP-MW-14	4/21/2020 11:18	DO	0.47	mg/L
GC-AP-MW-14	4/21/2020 11:18	Oxidation Reduction Potention	-42.12	mv
GC-AP-MW-14	4/21/2020 11:18	pH	6.25	pH
GC-AP-MW-14	4/21/2020 11:18	Temperature	19.65	C
GC-AP-MW-14	4/21/2020 11:18	Turbidity	11.5	NTU
GC-AP-MW-14	4/21/2020 11:23	Conductivity	1037.01	uS/cm
GC-AP-MW-14	4/21/2020 11:23	Depth to Water Detail	0.25	ft
GC-AP-MW-14	4/21/2020 11:23	DO	0.45	mg/L
GC-AP-MW-14	4/21/2020 11:23	Oxidation Reduction Potention	-45.17	mv
GC-AP-MW-14	4/21/2020 11:23	pH	6.31	pH
GC-AP-MW-14	4/21/2020 11:23	Temperature	19.66	C
GC-AP-MW-14	4/21/2020 11:23	Turbidity	9.33	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-15	4/20/2020 15:58	Conductivity	584.92	uS/cm
GC-AP-MW-15	4/20/2020 15:58	Depth to Water Detail	8.77	ft
GC-AP-MW-15	4/20/2020 15:58	DO	0.84	mg/L
GC-AP-MW-15	4/20/2020 15:58	Oxidation Reduction Potention	93.51	mv
GC-AP-MW-15	4/20/2020 15:58	pH	6.08	pH
GC-AP-MW-15	4/20/2020 15:58	Temperature	19.03	C
GC-AP-MW-15	4/20/2020 15:58	Turbidity	3.13	NTU
GC-AP-MW-15	4/20/2020 16:03	Conductivity	594.38	uS/cm
GC-AP-MW-15	4/20/2020 16:03	Depth to Water Detail	8.77	ft
GC-AP-MW-15	4/20/2020 16:03	DO	0.64	mg/L
GC-AP-MW-15	4/20/2020 16:03	Oxidation Reduction Potention	75.26	mv
GC-AP-MW-15	4/20/2020 16:03	pH	6.11	pH
GC-AP-MW-15	4/20/2020 16:03	Temperature	18.99	C
GC-AP-MW-15	4/20/2020 16:03	Turbidity	2.82	NTU
GC-AP-MW-15	4/20/2020 16:08	Conductivity	599.36	uS/cm
GC-AP-MW-15	4/20/2020 16:08	Depth to Water Detail	8.77	ft
GC-AP-MW-15	4/20/2020 16:08	DO	0.55	mg/L
GC-AP-MW-15	4/20/2020 16:08	Oxidation Reduction Potention	65.75	mv
GC-AP-MW-15	4/20/2020 16:08	pH	6.14	pH
GC-AP-MW-15	4/20/2020 16:08	Temperature	19.02	C
GC-AP-MW-15	4/20/2020 16:08	Turbidity	2.72	NTU
GC-AP-MW-15	4/20/2020 16:13	Conductivity	601.31	uS/cm
GC-AP-MW-15	4/20/2020 16:13	Depth to Water Detail	8.77	ft
GC-AP-MW-15	4/20/2020 16:13	DO	0.5	mg/L
GC-AP-MW-15	4/20/2020 16:13	Oxidation Reduction Potention	60.49	mv
GC-AP-MW-15	4/20/2020 16:13	pH	6.16	pH
GC-AP-MW-15	4/20/2020 16:13	Temperature	19.02	C
GC-AP-MW-15	4/20/2020 16:13	Turbidity	2.52	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-16	4/20/2020 17:09	Conductivity	822.7	uS/cm
GC-AP-MW-16	4/20/2020 17:09	Depth to Water Detail	25.58	ft
GC-AP-MW-16	4/20/2020 17:09	DO	0.25	mg/L
GC-AP-MW-16	4/20/2020 17:09	Oxidation Reduction Potention	-26.08	mv
GC-AP-MW-16	4/20/2020 17:09	pH	6.41	pH
GC-AP-MW-16	4/20/2020 17:09	Temperature	19.52	C
GC-AP-MW-16	4/20/2020 17:09	Turbidity	22.2	NTU
GC-AP-MW-16	4/20/2020 17:14	Conductivity	823.87	uS/cm
GC-AP-MW-16	4/20/2020 17:14	Depth to Water Detail	25.58	ft
GC-AP-MW-16	4/20/2020 17:14	DO	0.22	mg/L
GC-AP-MW-16	4/20/2020 17:14	Oxidation Reduction Potention	-29.04	mv
GC-AP-MW-16	4/20/2020 17:14	pH	6.41	pH
GC-AP-MW-16	4/20/2020 17:14	Temperature	19.47	C
GC-AP-MW-16	4/20/2020 17:14	Turbidity	18.2	NTU
GC-AP-MW-16	4/20/2020 17:19	Conductivity	833.84	uS/cm
GC-AP-MW-16	4/20/2020 17:19	Depth to Water Detail	25.58	ft
GC-AP-MW-16	4/20/2020 17:19	DO	0.21	mg/L
GC-AP-MW-16	4/20/2020 17:19	Oxidation Reduction Potention	-31.03	mv
GC-AP-MW-16	4/20/2020 17:19	pH	6.42	pH
GC-AP-MW-16	4/20/2020 17:19	Temperature	19.44	C
GC-AP-MW-16	4/20/2020 17:19	Turbidity	17.3	NTU
GC-AP-MW-16	4/20/2020 17:24	Conductivity	827.89	uS/cm
GC-AP-MW-16	4/20/2020 17:24	Depth to Water Detail	25.58	ft
GC-AP-MW-16	4/20/2020 17:24	DO	0.21	mg/L
GC-AP-MW-16	4/20/2020 17:24	Oxidation Reduction Potention	-32.45	mv
GC-AP-MW-16	4/20/2020 17:24	pH	6.42	pH
GC-AP-MW-16	4/20/2020 17:24	Temperature	19.38	C
GC-AP-MW-16	4/20/2020 17:24	Turbidity	15	NTU
GC-AP-MW-16	4/20/2020 17:29	Conductivity	829.32	uS/cm
GC-AP-MW-16	4/20/2020 17:29	Depth to Water Detail	25.58	ft
GC-AP-MW-16	4/20/2020 17:29	DO	0.2	mg/L
GC-AP-MW-16	4/20/2020 17:29	Oxidation Reduction Potention	-33.78	mv
GC-AP-MW-16	4/20/2020 17:29	pH	6.42	pH
GC-AP-MW-16	4/20/2020 17:29	Temperature	19.3	C
GC-AP-MW-16	4/20/2020 17:29	Turbidity	12.73	NTU
GC-AP-MW-16	4/20/2020 17:34	Conductivity	834.26	uS/cm
GC-AP-MW-16	4/20/2020 17:34	Depth to Water Detail	25.58	ft
GC-AP-MW-16	4/20/2020 17:34	DO	0.2	mg/L
GC-AP-MW-16	4/20/2020 17:34	Oxidation Reduction Potention	-34.86	mv
GC-AP-MW-16	4/20/2020 17:34	pH	6.42	pH
GC-AP-MW-16	4/20/2020 17:34	Temperature	19.27	C
GC-AP-MW-16	4/20/2020 17:34	Turbidity	10.8	NTU
GC-AP-MW-16	4/20/2020 17:39	Conductivity	832.49	uS/cm
GC-AP-MW-16	4/20/2020 17:39	Depth to Water Detail	25.58	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-16	4/20/2020 17:39	DO	0.2	mg/L
GC-AP-MW-16	4/20/2020 17:39	Oxidation Reduction Potention	-35.71	mv
GC-AP-MW-16	4/20/2020 17:39	pH	6.43	pH
GC-AP-MW-16	4/20/2020 17:39	Temperature	19.3	C
GC-AP-MW-16	4/20/2020 17:39	Turbidity	9.86	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-17	4/21/2020 9:26	Conductivity	789.67	uS/cm
GC-AP-MW-17	4/21/2020 9:26	Depth to Water Detail	20.82	ft
GC-AP-MW-17	4/21/2020 9:26	DO	0.24	mg/L
GC-AP-MW-17	4/21/2020 9:26	Oxidation Reduction Potention	-60.14	mv
GC-AP-MW-17	4/21/2020 9:26	pH	6.47	pH
GC-AP-MW-17	4/21/2020 9:26	Temperature	20.01	C
GC-AP-MW-17	4/21/2020 9:26	Turbidity	39.3	NTU
GC-AP-MW-17	4/21/2020 9:31	Conductivity	827.63	uS/cm
GC-AP-MW-17	4/21/2020 9:31	Depth to Water Detail	20.82	ft
GC-AP-MW-17	4/21/2020 9:31	DO	0.21	mg/L
GC-AP-MW-17	4/21/2020 9:31	Oxidation Reduction Potention	-71.66	mv
GC-AP-MW-17	4/21/2020 9:31	pH	6.55	pH
GC-AP-MW-17	4/21/2020 9:31	Temperature	20.01	C
GC-AP-MW-17	4/21/2020 9:31	Turbidity	24.4	NTU
GC-AP-MW-17	4/21/2020 9:36	Conductivity	860.21	uS/cm
GC-AP-MW-17	4/21/2020 9:36	Depth to Water Detail	20.82	ft
GC-AP-MW-17	4/21/2020 9:36	DO	0.19	mg/L
GC-AP-MW-17	4/21/2020 9:36	Oxidation Reduction Potention	-77.95	mv
GC-AP-MW-17	4/21/2020 9:36	pH	6.58	pH
GC-AP-MW-17	4/21/2020 9:36	Temperature	20.02	C
GC-AP-MW-17	4/21/2020 9:36	Turbidity	12.1	NTU
GC-AP-MW-17	4/21/2020 9:41	Conductivity	877.56	uS/cm
GC-AP-MW-17	4/21/2020 9:41	Depth to Water Detail	20.82	ft
GC-AP-MW-17	4/21/2020 9:41	DO	0.18	mg/L
GC-AP-MW-17	4/21/2020 9:41	Oxidation Reduction Potention	-81.79	mv
GC-AP-MW-17	4/21/2020 9:41	pH	6.61	pH
GC-AP-MW-17	4/21/2020 9:41	Temperature	20.03	C
GC-AP-MW-17	4/21/2020 9:41	Turbidity	12.69	NTU
GC-AP-MW-17	4/21/2020 9:46	Conductivity	888.25	uS/cm
GC-AP-MW-17	4/21/2020 9:46	Depth to Water Detail	20.82	ft
GC-AP-MW-17	4/21/2020 9:46	DO	0.18	mg/L
GC-AP-MW-17	4/21/2020 9:46	Oxidation Reduction Potention	-82.58	mv
GC-AP-MW-17	4/21/2020 9:46	pH	6.59	pH
GC-AP-MW-17	4/21/2020 9:46	Temperature	20.06	C
GC-AP-MW-17	4/21/2020 9:46	Turbidity	10.47	NTU
GC-AP-MW-17	4/21/2020 9:51	Conductivity	897.96	uS/cm
GC-AP-MW-17	4/21/2020 9:51	Depth to Water Detail	20.82	ft
GC-AP-MW-17	4/21/2020 9:51	DO	0.18	mg/L
GC-AP-MW-17	4/21/2020 9:51	Oxidation Reduction Potention	-84.62	mv
GC-AP-MW-17	4/21/2020 9:51	pH	6.61	pH
GC-AP-MW-17	4/21/2020 9:51	Temperature	20.12	C
GC-AP-MW-17	4/21/2020 9:51	Turbidity	8.53	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-18	4/21/2020 8:21	Conductivity	791.03	uS/cm
GC-AP-MW-18	4/21/2020 8:21	Depth to Water Detail	19.91	ft
GC-AP-MW-18	4/21/2020 8:21	DO	0.2	mg/L
GC-AP-MW-18	4/21/2020 8:21	Oxidation Reduction Potention	-64.69	mv
GC-AP-MW-18	4/21/2020 8:21	pH	6.21	pH
GC-AP-MW-18	4/21/2020 8:21	Temperature	19.8	C
GC-AP-MW-18	4/21/2020 8:21	Turbidity	13.2	NTU
GC-AP-MW-18	4/21/2020 8:26	Conductivity	791.17	uS/cm
GC-AP-MW-18	4/21/2020 8:26	Depth to Water Detail	19.91	ft
GC-AP-MW-18	4/21/2020 8:26	DO	0.17	mg/L
GC-AP-MW-18	4/21/2020 8:26	Oxidation Reduction Potention	-53.28	mv
GC-AP-MW-18	4/21/2020 8:26	pH	6.25	pH
GC-AP-MW-18	4/21/2020 8:26	Temperature	19.81	C
GC-AP-MW-18	4/21/2020 8:26	Turbidity	12.63	NTU
GC-AP-MW-18	4/21/2020 8:31	Conductivity	794.22	uS/cm
GC-AP-MW-18	4/21/2020 8:31	Depth to Water Detail	19.91	ft
GC-AP-MW-18	4/21/2020 8:31	DO	0.16	mg/L
GC-AP-MW-18	4/21/2020 8:31	Oxidation Reduction Potention	-48.58	mv
GC-AP-MW-18	4/21/2020 8:31	pH	6.3	pH
GC-AP-MW-18	4/21/2020 8:31	Temperature	19.83	C
GC-AP-MW-18	4/21/2020 8:31	Turbidity	9.36	NTU
GC-AP-MW-18	4/21/2020 8:36	Conductivity	795.71	uS/cm
GC-AP-MW-18	4/21/2020 8:36	Depth to Water Detail	19.91	ft
GC-AP-MW-18	4/21/2020 8:36	DO	0.16	mg/L
GC-AP-MW-18	4/21/2020 8:36	Oxidation Reduction Potention	-45.41	mv
GC-AP-MW-18	4/21/2020 8:36	pH	6.32	pH
GC-AP-MW-18	4/21/2020 8:36	Temperature	19.85	C
GC-AP-MW-18	4/21/2020 8:36	Turbidity	7.3	NTU
GC-AP-MW-18	4/21/2020 8:41	Conductivity	796.9	uS/cm
GC-AP-MW-18	4/21/2020 8:41	Depth to Water Detail	19.91	ft
GC-AP-MW-18	4/21/2020 8:41	DO	0.15	mg/L
GC-AP-MW-18	4/21/2020 8:41	Oxidation Reduction Potention	-42.67	mv
GC-AP-MW-18	4/21/2020 8:41	pH	6.32	pH
GC-AP-MW-18	4/21/2020 8:41	Temperature	19.89	C
GC-AP-MW-18	4/21/2020 8:41	Turbidity	6.66	NTU
GC-AP-MW-18	4/21/2020 8:46	Conductivity	798.19	uS/cm
GC-AP-MW-18	4/21/2020 8:46	Depth to Water Detail	19.91	ft
GC-AP-MW-18	4/21/2020 8:46	DO	0.15	mg/L
GC-AP-MW-18	4/21/2020 8:46	Oxidation Reduction Potention	-40.82	mv
GC-AP-MW-18	4/21/2020 8:46	pH	6.33	pH
GC-AP-MW-18	4/21/2020 8:46	Temperature	19.92	C
GC-AP-MW-18	4/21/2020 8:46	Turbidity	5.41	NTU
GC-AP-MW-18	4/21/2020 8:51	Conductivity	797.85	uS/cm
GC-AP-MW-18	4/21/2020 8:51	Depth to Water Detail	19.91	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-18	4/21/2020 8:51	DO	0.15	mg/L
GC-AP-MW-18	4/21/2020 8:51	Oxidation Reduction Potention	-36.54	mv
GC-AP-MW-18	4/21/2020 8:51	pH	6.28	pH
GC-AP-MW-18	4/21/2020 8:51	Temperature	19.94	C
GC-AP-MW-18	4/21/2020 8:51	Turbidity	5.06	NTU
GC-AP-MW-18	4/21/2020 8:56	Conductivity	798.13	uS/cm
GC-AP-MW-18	4/21/2020 8:56	Depth to Water Detail	19.91	ft
GC-AP-MW-18	4/21/2020 8:56	DO	0.15	mg/L
GC-AP-MW-18	4/21/2020 8:56	Oxidation Reduction Potention	-36.73	mv
GC-AP-MW-18	4/21/2020 8:56	pH	6.31	pH
GC-AP-MW-18	4/21/2020 8:56	Temperature	19.9	C
GC-AP-MW-18	4/21/2020 8:56	Turbidity	4.91	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-21	4/21/2020 11:50	Conductivity	427.13	uS/cm
GC-AP-MW-21	4/21/2020 11:50	Depth to Water Detail	19.88	ft
GC-AP-MW-21	4/21/2020 11:50	DO	0.25	mg/L
GC-AP-MW-21	4/21/2020 11:50	Oxidation Reduction Potention	43.86	mv
GC-AP-MW-21	4/21/2020 11:50	pH	6.8	pH
GC-AP-MW-21	4/21/2020 11:50	Temperature	21.61	C
GC-AP-MW-21	4/21/2020 11:50	Turbidity	2.02	NTU
GC-AP-MW-21	4/21/2020 11:55	Conductivity	423.51	uS/cm
GC-AP-MW-21	4/21/2020 11:55	Depth to Water Detail	19.88	ft
GC-AP-MW-21	4/21/2020 11:55	DO	0.21	mg/L
GC-AP-MW-21	4/21/2020 11:55	Oxidation Reduction Potention	45.3	mv
GC-AP-MW-21	4/21/2020 11:55	pH	6.81	pH
GC-AP-MW-21	4/21/2020 11:55	Temperature	21.62	C
GC-AP-MW-21	4/21/2020 11:55	Turbidity	0.97	NTU
GC-AP-MW-21	4/21/2020 12:00	Conductivity	425.29	uS/cm
GC-AP-MW-21	4/21/2020 12:00	Depth to Water Detail	19.88	ft
GC-AP-MW-21	4/21/2020 12:00	DO	0.19	mg/L
GC-AP-MW-21	4/21/2020 12:00	Oxidation Reduction Potention	45.52	mv
GC-AP-MW-21	4/21/2020 12:00	pH	6.81	pH
GC-AP-MW-21	4/21/2020 12:00	Temperature	21.67	C
GC-AP-MW-21	4/21/2020 12:00	Turbidity	0.72	NTU
GC-AP-MW-21	4/21/2020 12:05	Conductivity	421.26	uS/cm
GC-AP-MW-21	4/21/2020 12:05	Depth to Water Detail	19.88	ft
GC-AP-MW-21	4/21/2020 12:05	DO	0.16	mg/L
GC-AP-MW-21	4/21/2020 12:05	Oxidation Reduction Potention	46.37	mv
GC-AP-MW-21	4/21/2020 12:05	pH	6.81	pH
GC-AP-MW-21	4/21/2020 12:05	Temperature	21.66	C
GC-AP-MW-21	4/21/2020 12:05	Turbidity	0.86	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-23	4/21/2020 16:10	Conductivity	210.12	uS/cm
GC-AP-MW-23	4/21/2020 16:10	Depth to Water Detail	12.83	ft
GC-AP-MW-23	4/21/2020 16:10	DO	5.39	mg/L
GC-AP-MW-23	4/21/2020 16:10	Oxidation Reduction Potention	136.96	mv
GC-AP-MW-23	4/21/2020 16:10	pH	6.45	pH
GC-AP-MW-23	4/21/2020 16:10	Temperature	18.43	C
GC-AP-MW-23	4/21/2020 16:10	Turbidity	4.8	NTU
GC-AP-MW-23	4/21/2020 16:15	Conductivity	185.98	uS/cm
GC-AP-MW-23	4/21/2020 16:15	Depth to Water Detail	13.33	ft
GC-AP-MW-23	4/21/2020 16:15	DO	5.5	mg/L
GC-AP-MW-23	4/21/2020 16:15	Oxidation Reduction Potention	143.78	mv
GC-AP-MW-23	4/21/2020 16:15	pH	6.33	pH
GC-AP-MW-23	4/21/2020 16:15	Temperature	18.38	C
GC-AP-MW-23	4/21/2020 16:15	Turbidity	3.49	NTU
GC-AP-MW-23	4/21/2020 16:20	Conductivity	176.49	uS/cm
GC-AP-MW-23	4/21/2020 16:20	Depth to Water Detail	13.33	ft
GC-AP-MW-23	4/21/2020 16:20	DO	5.63	mg/L
GC-AP-MW-23	4/21/2020 16:20	Oxidation Reduction Potention	149.38	mv
GC-AP-MW-23	4/21/2020 16:20	pH	6.27	pH
GC-AP-MW-23	4/21/2020 16:20	Temperature	18.39	C
GC-AP-MW-23	4/21/2020 16:20	Turbidity	3.58	NTU
GC-AP-MW-23	4/21/2020 16:25	Conductivity	177.69	uS/cm
GC-AP-MW-23	4/21/2020 16:25	Depth to Water Detail	13.33	ft
GC-AP-MW-23	4/21/2020 16:25	DO	5.73	mg/L
GC-AP-MW-23	4/21/2020 16:25	Oxidation Reduction Potention	153.22	mv
GC-AP-MW-23	4/21/2020 16:25	pH	6.26	pH
GC-AP-MW-23	4/21/2020 16:25	Temperature	18.41	C
GC-AP-MW-23	4/21/2020 16:25	Turbidity	3.25	NTU
GC-AP-MW-23	4/21/2020 16:30	Conductivity	170.5	uS/cm
GC-AP-MW-23	4/21/2020 16:30	Depth to Water Detail	13.33	ft
GC-AP-MW-23	4/21/2020 16:30	DO	5.79	mg/L
GC-AP-MW-23	4/21/2020 16:30	Oxidation Reduction Potention	155.11	mv
GC-AP-MW-23	4/21/2020 16:30	pH	6.26	pH
GC-AP-MW-23	4/21/2020 16:30	Temperature	18.37	C
GC-AP-MW-23	4/21/2020 16:30	Turbidity	3.03	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-24	4/22/2020 10:10	Conductivity	247.76	uS/cm
GC-AP-MW-24	4/22/2020 10:10	Depth to Water Detail	16.58	ft
GC-AP-MW-24	4/22/2020 10:10	DO	5.22	mg/L
GC-AP-MW-24	4/22/2020 10:10	Oxidation Reduction Potention	166.33	mv
GC-AP-MW-24	4/22/2020 10:10	pH	5.15	pH
GC-AP-MW-24	4/22/2020 10:10	Temperature	18.93	C
GC-AP-MW-24	4/22/2020 10:10	Turbidity	3.59	NTU
GC-AP-MW-24	4/22/2020 10:15	Conductivity	244.63	uS/cm
GC-AP-MW-24	4/22/2020 10:15	Depth to Water Detail	16.58	ft
GC-AP-MW-24	4/22/2020 10:15	DO	5.19	mg/L
GC-AP-MW-24	4/22/2020 10:15	Oxidation Reduction Potention	180.42	mv
GC-AP-MW-24	4/22/2020 10:15	pH	5.2	pH
GC-AP-MW-24	4/22/2020 10:15	Temperature	18.91	C
GC-AP-MW-24	4/22/2020 10:15	Turbidity	3.29	NTU
GC-AP-MW-24	4/22/2020 10:20	Conductivity	239.43	uS/cm
GC-AP-MW-24	4/22/2020 10:20	Depth to Water Detail	16.58	ft
GC-AP-MW-24	4/22/2020 10:20	DO	5.28	mg/L
GC-AP-MW-24	4/22/2020 10:20	Oxidation Reduction Potention	189.54	mv
GC-AP-MW-24	4/22/2020 10:20	pH	5.28	pH
GC-AP-MW-24	4/22/2020 10:20	Temperature	18.85	C
GC-AP-MW-24	4/22/2020 10:20	Turbidity	2.85	NTU
GC-AP-MW-24	4/22/2020 10:25	Conductivity	236.17	uS/cm
GC-AP-MW-24	4/22/2020 10:25	Depth to Water Detail	16.58	ft
GC-AP-MW-24	4/22/2020 10:25	DO	5.24	mg/L
GC-AP-MW-24	4/22/2020 10:25	Oxidation Reduction Potention	197.48	mv
GC-AP-MW-24	4/22/2020 10:25	pH	5.3	pH
GC-AP-MW-24	4/22/2020 10:25	Temperature	18.88	C
GC-AP-MW-24	4/22/2020 10:25	Turbidity	2.97	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-25	4/22/2020 8:46	Conductivity	314.9	uS/cm
GC-AP-MW-25	4/22/2020 8:46	Depth to Water Detail	7.96	ft
GC-AP-MW-25	4/22/2020 8:46	DO	0.59	mg/L
GC-AP-MW-25	4/22/2020 8:46	Oxidation Reduction Potention	111.44	mv
GC-AP-MW-25	4/22/2020 8:46	pH	5.04	pH
GC-AP-MW-25	4/22/2020 8:46	Temperature	19.87	C
GC-AP-MW-25	4/22/2020 8:46	Turbidity	3.88	NTU
GC-AP-MW-25	4/22/2020 8:51	Conductivity	266.07	uS/cm
GC-AP-MW-25	4/22/2020 8:51	Depth to Water Detail	8.38	ft
GC-AP-MW-25	4/22/2020 8:51	DO	0.48	mg/L
GC-AP-MW-25	4/22/2020 8:51	Oxidation Reduction Potention	125.47	mv
GC-AP-MW-25	4/22/2020 8:51	pH	5.09	pH
GC-AP-MW-25	4/22/2020 8:51	Temperature	19.96	C
GC-AP-MW-25	4/22/2020 8:51	Turbidity	4.61	NTU
GC-AP-MW-25	4/22/2020 8:56	Conductivity	260.67	uS/cm
GC-AP-MW-25	4/22/2020 8:56	Depth to Water Detail	8.44	ft
GC-AP-MW-25	4/22/2020 8:56	DO	0.44	mg/L
GC-AP-MW-25	4/22/2020 8:56	Oxidation Reduction Potention	135.32	mv
GC-AP-MW-25	4/22/2020 8:56	pH	5.16	pH
GC-AP-MW-25	4/22/2020 8:56	Temperature	20.01	C
GC-AP-MW-25	4/22/2020 8:56	Turbidity	3.39	NTU
GC-AP-MW-25	4/22/2020 9:01	Conductivity	298.55	uS/cm
GC-AP-MW-25	4/22/2020 9:01	Depth to Water Detail	8.51	ft
GC-AP-MW-25	4/22/2020 9:01	DO	0.43	mg/L
GC-AP-MW-25	4/22/2020 9:01	Oxidation Reduction Potention	140.36	mv
GC-AP-MW-25	4/22/2020 9:01	pH	5.22	pH
GC-AP-MW-25	4/22/2020 9:01	Temperature	20.05	C
GC-AP-MW-25	4/22/2020 9:01	Turbidity	3.33	NTU
GC-AP-MW-25	4/22/2020 9:06	Conductivity	298	uS/cm
GC-AP-MW-25	4/22/2020 9:06	Depth to Water Detail	8.53	ft
GC-AP-MW-25	4/22/2020 9:06	DO	0.42	mg/L
GC-AP-MW-25	4/22/2020 9:06	Oxidation Reduction Potention	145.32	mv
GC-AP-MW-25	4/22/2020 9:06	pH	5.22	pH
GC-AP-MW-25	4/22/2020 9:06	Temperature	20.07	C
GC-AP-MW-25	4/22/2020 9:06	Turbidity	3.28	NTU
GC-AP-MW-25	4/22/2020 9:11	Conductivity	283.61	uS/cm
GC-AP-MW-25	4/22/2020 9:11	Depth to Water Detail	8.54	ft
GC-AP-MW-25	4/22/2020 9:11	DO	0.42	mg/L
GC-AP-MW-25	4/22/2020 9:11	Oxidation Reduction Potention	148.43	mv
GC-AP-MW-25	4/22/2020 9:11	pH	5.24	pH
GC-AP-MW-25	4/22/2020 9:11	Temperature	20.1	C
GC-AP-MW-25	4/22/2020 9:11	Turbidity	3.22	NTU
GC-AP-MW-25	4/22/2020 9:16	Conductivity	312.29	uS/cm
GC-AP-MW-25	4/22/2020 9:16	Depth to Water Detail	8.54	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-25	4/22/2020 9:16	DO	0.42	mg/L
GC-AP-MW-25	4/22/2020 9:16	Oxidation Reduction Potention	149.51	mv
GC-AP-MW-25	4/22/2020 9:16	pH	5.25	pH
GC-AP-MW-25	4/22/2020 9:16	Temperature	20.11	C
GC-AP-MW-25	4/22/2020 9:16	Turbidity	3.24	NTU
GC-AP-MW-25	4/22/2020 9:21	Conductivity	311.73	uS/cm
GC-AP-MW-25	4/22/2020 9:21	Depth to Water Detail	8.54	ft
GC-AP-MW-25	4/22/2020 9:21	DO	0.42	mg/L
GC-AP-MW-25	4/22/2020 9:21	Oxidation Reduction Potention	150.47	mv
GC-AP-MW-25	4/22/2020 9:21	pH	5.27	pH
GC-AP-MW-25	4/22/2020 9:21	Temperature	20.11	C
GC-AP-MW-25	4/22/2020 9:21	Turbidity	3.05	NTU
GC-AP-MW-25	4/22/2020 9:26	Conductivity	311.11	uS/cm
GC-AP-MW-25	4/22/2020 9:26	Depth to Water Detail	8.54	ft
GC-AP-MW-25	4/22/2020 9:26	DO	0.41	mg/L
GC-AP-MW-25	4/22/2020 9:26	Oxidation Reduction Potention	153.3	mv
GC-AP-MW-25	4/22/2020 9:26	pH	5.26	pH
GC-AP-MW-25	4/22/2020 9:26	Temperature	20.13	C
GC-AP-MW-25	4/22/2020 9:26	Turbidity	3.2	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-26	4/21/2020 15:03	Conductivity	46.84	uS/cm
GC-AP-MW-26	4/21/2020 15:03	Depth to Water Detail	3.69	ft
GC-AP-MW-26	4/21/2020 15:03	DO	6.82	mg/L
GC-AP-MW-26	4/21/2020 15:03	Oxidation Reduction Potention	242.86	mv
GC-AP-MW-26	4/21/2020 15:03	pH	5.28	pH
GC-AP-MW-26	4/21/2020 15:03	Temperature	18.84	C
GC-AP-MW-26	4/21/2020 15:03	Turbidity	3.04	NTU
GC-AP-MW-26	4/21/2020 15:08	Conductivity	43.68	uS/cm
GC-AP-MW-26	4/21/2020 15:08	Depth to Water Detail	3.69	ft
GC-AP-MW-26	4/21/2020 15:08	DO	6.95	mg/L
GC-AP-MW-26	4/21/2020 15:08	Oxidation Reduction Potention	247.1	mv
GC-AP-MW-26	4/21/2020 15:08	pH	5.22	pH
GC-AP-MW-26	4/21/2020 15:08	Temperature	18.85	C
GC-AP-MW-26	4/21/2020 15:08	Turbidity	3.46	NTU
GC-AP-MW-26	4/21/2020 15:13	Conductivity	44.42	uS/cm
GC-AP-MW-26	4/21/2020 15:13	Depth to Water Detail	3.69	ft
GC-AP-MW-26	4/21/2020 15:13	DO	6.87	mg/L
GC-AP-MW-26	4/21/2020 15:13	Oxidation Reduction Potention	242.42	mv
GC-AP-MW-26	4/21/2020 15:13	pH	5.27	pH
GC-AP-MW-26	4/21/2020 15:13	Temperature	18.83	C
GC-AP-MW-26	4/21/2020 15:13	Turbidity	3.2	NTU
GC-AP-MW-26	4/21/2020 15:18	Conductivity	44.3	uS/cm
GC-AP-MW-26	4/21/2020 15:18	Depth to Water Detail	3.69	ft
GC-AP-MW-26	4/21/2020 15:18	DO	6.9	mg/L
GC-AP-MW-26	4/21/2020 15:18	Oxidation Reduction Potention	236.77	mv
GC-AP-MW-26	4/21/2020 15:18	pH	5.3	pH
GC-AP-MW-26	4/21/2020 15:18	Temperature	18.85	C
GC-AP-MW-26	4/21/2020 15:18	Turbidity	2.99	NTU

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Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-27	4/21/2020 14:24	Conductivity	38.59	uS/cm
GC-AP-MW-27	4/21/2020 14:24	Depth to Water Detail	5.95	ft
GC-AP-MW-27	4/21/2020 14:24	DO	6.72	mg/L
GC-AP-MW-27	4/21/2020 14:24	Oxidation Reduction Potention	298.23	mv
GC-AP-MW-27	4/21/2020 14:24	pH	4.47	pH
GC-AP-MW-27	4/21/2020 14:24	Temperature	19.03	C
GC-AP-MW-27	4/21/2020 14:24	Turbidity	3.01	NTU
GC-AP-MW-27	4/21/2020 14:29	Conductivity	37.52	uS/cm
GC-AP-MW-27	4/21/2020 14:29	Depth to Water Detail	5.95	ft
GC-AP-MW-27	4/21/2020 14:29	DO	6.78	mg/L
GC-AP-MW-27	4/21/2020 14:29	Oxidation Reduction Potention	306.89	mv
GC-AP-MW-27	4/21/2020 14:29	pH	4.36	pH
GC-AP-MW-27	4/21/2020 14:29	Temperature	19.02	C
GC-AP-MW-27	4/21/2020 14:29	Turbidity	3.08	NTU
GC-AP-MW-27	4/21/2020 14:34	Conductivity	35.97	uS/cm
GC-AP-MW-27	4/21/2020 14:34	Depth to Water Detail	5.95	ft
GC-AP-MW-27	4/21/2020 14:34	DO	6.85	mg/L
GC-AP-MW-27	4/21/2020 14:34	Oxidation Reduction Potention	312.1	mv
GC-AP-MW-27	4/21/2020 14:34	pH	4.29	pH
GC-AP-MW-27	4/21/2020 14:34	Temperature	19.01	C
GC-AP-MW-27	4/21/2020 14:34	Turbidity	3.52	NTU
GC-AP-MW-27	4/21/2020 14:39	Conductivity	36.33	uS/cm
GC-AP-MW-27	4/21/2020 14:39	Depth to Water Detail	5.95	ft
GC-AP-MW-27	4/21/2020 14:39	DO	6.87	mg/L
GC-AP-MW-27	4/21/2020 14:39	Oxidation Reduction Potention	311.38	mv
GC-AP-MW-27	4/21/2020 14:39	pH	4.29	pH
GC-AP-MW-27	4/21/2020 14:39	Temperature	19.03	C
GC-AP-MW-27	4/21/2020 14:39	Turbidity	3.04	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-28	4/21/2020 13:38	Conductivity	54.26	uS/cm
GC-AP-MW-28	4/21/2020 13:38	Depth to Water Detail	4.98	ft
GC-AP-MW-28	4/21/2020 13:38	DO	7.62	mg/L
GC-AP-MW-28	4/21/2020 13:38	Oxidation Reduction Potention	297.34	mv
GC-AP-MW-28	4/21/2020 13:38	pH	4.4	pH
GC-AP-MW-28	4/21/2020 13:38	Temperature	18.27	C
GC-AP-MW-28	4/21/2020 13:38	Turbidity	3.4	NTU
GC-AP-MW-28	4/21/2020 13:43	Conductivity	54.33	uS/cm
GC-AP-MW-28	4/21/2020 13:43	Depth to Water Detail	4.98	ft
GC-AP-MW-28	4/21/2020 13:43	DO	7.56	mg/L
GC-AP-MW-28	4/21/2020 13:43	Oxidation Reduction Potention	321.27	mv
GC-AP-MW-28	4/21/2020 13:43	pH	4.16	pH
GC-AP-MW-28	4/21/2020 13:43	Temperature	18.21	C
GC-AP-MW-28	4/21/2020 13:43	Turbidity	3.28	NTU
GC-AP-MW-28	4/21/2020 13:48	Conductivity	53.97	uS/cm
GC-AP-MW-28	4/21/2020 13:48	Depth to Water Detail	4.98	ft
GC-AP-MW-28	4/21/2020 13:48	DO	7.57	mg/L
GC-AP-MW-28	4/21/2020 13:48	Oxidation Reduction Potention	334.66	mv
GC-AP-MW-28	4/21/2020 13:48	pH	4.01	pH
GC-AP-MW-28	4/21/2020 13:48	Temperature	18.21	C
GC-AP-MW-28	4/21/2020 13:48	Turbidity	3.23	NTU
GC-AP-MW-28	4/21/2020 13:53	Conductivity	52.68	uS/cm
GC-AP-MW-28	4/21/2020 13:53	Depth to Water Detail	4.98	ft
GC-AP-MW-28	4/21/2020 13:53	DO	7.54	mg/L
GC-AP-MW-28	4/21/2020 13:53	Oxidation Reduction Potention	335.89	mv
GC-AP-MW-28	4/21/2020 13:53	pH	4.07	pH
GC-AP-MW-28	4/21/2020 13:53	Temperature	18.2	C
GC-AP-MW-28	4/21/2020 13:53	Turbidity	3.07	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-29	4/21/2020 12:40	Conductivity	20.54	uS/cm
GC-AP-MW-29	4/21/2020 12:40	Depth to Water Detail	3.96	ft
GC-AP-MW-29	4/21/2020 12:40	DO	8.85	mg/L
GC-AP-MW-29	4/21/2020 12:40	Oxidation Reduction Potention	307.75	mv
GC-AP-MW-29	4/21/2020 12:40	pH	4.04	pH
GC-AP-MW-29	4/21/2020 12:40	Temperature	18.07	C
GC-AP-MW-29	4/21/2020 12:40	Turbidity	8.99	NTU
GC-AP-MW-29	4/21/2020 12:45	Conductivity	19.91	uS/cm
GC-AP-MW-29	4/21/2020 12:45	Depth to Water Detail	3.96	ft
GC-AP-MW-29	4/21/2020 12:45	DO	8.94	mg/L
GC-AP-MW-29	4/21/2020 12:45	Oxidation Reduction Potention	333.22	mv
GC-AP-MW-29	4/21/2020 12:45	pH	3.85	pH
GC-AP-MW-29	4/21/2020 12:45	Temperature	18.07	C
GC-AP-MW-29	4/21/2020 12:45	Turbidity	4.19	NTU
GC-AP-MW-29	4/21/2020 12:50	Conductivity	20.41	uS/cm
GC-AP-MW-29	4/21/2020 12:50	Depth to Water Detail	3.96	ft
GC-AP-MW-29	4/21/2020 12:50	DO	8.91	mg/L
GC-AP-MW-29	4/21/2020 12:50	Oxidation Reduction Potention	340.77	mv
GC-AP-MW-29	4/21/2020 12:50	pH	3.83	pH
GC-AP-MW-29	4/21/2020 12:50	Temperature	18.08	C
GC-AP-MW-29	4/21/2020 12:50	Turbidity	4.03	NTU
GC-AP-MW-29	4/21/2020 12:55	Conductivity	19.68	uS/cm
GC-AP-MW-29	4/21/2020 12:55	Depth to Water Detail	3.96	ft
GC-AP-MW-29	4/21/2020 12:55	DO	8.84	mg/L
GC-AP-MW-29	4/21/2020 12:55	Oxidation Reduction Potention	334.86	mv
GC-AP-MW-29	4/21/2020 12:55	pH	3.9	pH
GC-AP-MW-29	4/21/2020 12:55	Temperature	18.11	C
GC-AP-MW-29	4/21/2020 12:55	Turbidity	4.04	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-30	4/21/2020 12:59	Conductivity	29.47	uS/cm
GC-AP-MW-30	4/21/2020 12:59	Depth to Water Detail	5.68	ft
GC-AP-MW-30	4/21/2020 12:59	DO	4.72	mg/L
GC-AP-MW-30	4/21/2020 12:59	Oxidation Reduction Potention	323.42	mv
GC-AP-MW-30	4/21/2020 12:59	pH	4.31	pH
GC-AP-MW-30	4/21/2020 12:59	Temperature	18.45	C
GC-AP-MW-30	4/21/2020 12:59	Turbidity	2.94	NTU
GC-AP-MW-30	4/21/2020 13:04	Conductivity	29.4	uS/cm
GC-AP-MW-30	4/21/2020 13:04	Depth to Water Detail	5.68	ft
GC-AP-MW-30	4/21/2020 13:04	DO	4.62	mg/L
GC-AP-MW-30	4/21/2020 13:04	Oxidation Reduction Potention	313.84	mv
GC-AP-MW-30	4/21/2020 13:04	pH	4.4	pH
GC-AP-MW-30	4/21/2020 13:04	Temperature	18.42	C
GC-AP-MW-30	4/21/2020 13:04	Turbidity	2.76	NTU
GC-AP-MW-30	4/21/2020 13:09	Conductivity	29.2	uS/cm
GC-AP-MW-30	4/21/2020 13:09	Depth to Water Detail	5.68	ft
GC-AP-MW-30	4/21/2020 13:09	DO	4.56	mg/L
GC-AP-MW-30	4/21/2020 13:09	Oxidation Reduction Potention	314.33	mv
GC-AP-MW-30	4/21/2020 13:09	pH	4.51	pH
GC-AP-MW-30	4/21/2020 13:09	Temperature	18.42	C
GC-AP-MW-30	4/21/2020 13:09	Turbidity	2.58	NTU
GC-AP-MW-30	4/21/2020 13:14	Conductivity	29.29	uS/cm
GC-AP-MW-30	4/21/2020 13:14	Depth to Water Detail	5.68	ft
GC-AP-MW-30	4/21/2020 13:14	DO	4.61	mg/L
GC-AP-MW-30	4/21/2020 13:14	Oxidation Reduction Potention	321.96	mv
GC-AP-MW-30	4/21/2020 13:14	pH	4.44	pH
GC-AP-MW-30	4/21/2020 13:14	Temperature	18.51	C
GC-AP-MW-30	4/21/2020 13:14	Turbidity	2.46	NTU

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Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-31	4/22/2020 11:08	Conductivity	68.96	uS/cm
GC-AP-MW-31	4/22/2020 11:08	Depth to Water Detail	4.94	ft
GC-AP-MW-31	4/22/2020 11:08	DO	1.09	mg/L
GC-AP-MW-31	4/22/2020 11:08	Oxidation Reduction Potention	233.6	mv
GC-AP-MW-31	4/22/2020 11:08	pH	5.66	pH
GC-AP-MW-31	4/22/2020 11:08	Temperature	17.16	C
GC-AP-MW-31	4/22/2020 11:08	Turbidity	1.13	NTU
GC-AP-MW-31	4/22/2020 11:13	Conductivity	66.82	uS/cm
GC-AP-MW-31	4/22/2020 11:13	Depth to Water Detail	4.94	ft
GC-AP-MW-31	4/22/2020 11:13	DO	1.15	mg/L
GC-AP-MW-31	4/22/2020 11:13	Oxidation Reduction Potention	234.04	mv
GC-AP-MW-31	4/22/2020 11:13	pH	5.7	pH
GC-AP-MW-31	4/22/2020 11:13	Temperature	17.13	C
GC-AP-MW-31	4/22/2020 11:13	Turbidity	0.8	NTU
GC-AP-MW-31	4/22/2020 11:18	Conductivity	65.74	uS/cm
GC-AP-MW-31	4/22/2020 11:18	Depth to Water Detail	4.94	ft
GC-AP-MW-31	4/22/2020 11:18	DO	1.19	mg/L
GC-AP-MW-31	4/22/2020 11:18	Oxidation Reduction Potention	233.72	mv
GC-AP-MW-31	4/22/2020 11:18	pH	5.75	pH
GC-AP-MW-31	4/22/2020 11:18	Temperature	17.13	C
GC-AP-MW-31	4/22/2020 11:18	Turbidity	0.5	NTU
GC-AP-MW-31	4/22/2020 11:23	Conductivity	67.64	uS/cm
GC-AP-MW-31	4/22/2020 11:23	Depth to Water Detail	4.94	ft
GC-AP-MW-31	4/22/2020 11:23	DO	1.19	mg/L
GC-AP-MW-31	4/22/2020 11:23	Oxidation Reduction Potention	236.36	mv
GC-AP-MW-31	4/22/2020 11:23	pH	5.75	pH
GC-AP-MW-31	4/22/2020 11:23	Temperature	17.16	C
GC-AP-MW-31	4/22/2020 11:23	Turbidity	0.45	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-32	4/22/2020 9:09	Conductivity	70.46	uS/cm
GC-AP-MW-32	4/22/2020 9:09	Depth to Water Detail	15.71	ft
GC-AP-MW-32	4/22/2020 9:09	DO	4.65	mg/L
GC-AP-MW-32	4/22/2020 9:09	Oxidation Reduction Potention	202.03	mv
GC-AP-MW-32	4/22/2020 9:09	pH	5.87	pH
GC-AP-MW-32	4/22/2020 9:09	Temperature	19.12	C
GC-AP-MW-32	4/22/2020 9:09	Turbidity	0.6	NTU
GC-AP-MW-32	4/22/2020 9:14	Conductivity	71.5	uS/cm
GC-AP-MW-32	4/22/2020 9:14	Depth to Water Detail	15.71	ft
GC-AP-MW-32	4/22/2020 9:14	DO	4.53	mg/L
GC-AP-MW-32	4/22/2020 9:14	Oxidation Reduction Potention	203.32	mv
GC-AP-MW-32	4/22/2020 9:14	pH	5.92	pH
GC-AP-MW-32	4/22/2020 9:14	Temperature	19.16	C
GC-AP-MW-32	4/22/2020 9:14	Turbidity	0.89	NTU
GC-AP-MW-32	4/22/2020 9:19	Conductivity	72.16	uS/cm
GC-AP-MW-32	4/22/2020 9:19	Depth to Water Detail	15.71	ft
GC-AP-MW-32	4/22/2020 9:19	DO	4.5	mg/L
GC-AP-MW-32	4/22/2020 9:19	Oxidation Reduction Potention	205.07	mv
GC-AP-MW-32	4/22/2020 9:19	pH	5.94	pH
GC-AP-MW-32	4/22/2020 9:19	Temperature	19.17	C
GC-AP-MW-32	4/22/2020 9:19	Turbidity	0.68	NTU
GC-AP-MW-32	4/22/2020 9:24	Conductivity	71.57	uS/cm
GC-AP-MW-32	4/22/2020 9:24	Depth to Water Detail	15.71	ft
GC-AP-MW-32	4/22/2020 9:24	DO	4.46	mg/L
GC-AP-MW-32	4/22/2020 9:24	Oxidation Reduction Potention	208.59	mv
GC-AP-MW-32	4/22/2020 9:24	pH	5.92	pH
GC-AP-MW-32	4/22/2020 9:24	Temperature	19.15	C
GC-AP-MW-32	4/22/2020 9:24	Turbidity	0.54	NTU

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Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-33	4/22/2020 10:08	Conductivity	103.72	uS/cm
GC-AP-MW-33	4/22/2020 10:08	Depth to Water Detail	18.06	ft
GC-AP-MW-33	4/22/2020 10:08	DO	6.4	mg/L
GC-AP-MW-33	4/22/2020 10:08	Oxidation Reduction Potention	281.2	mv
GC-AP-MW-33	4/22/2020 10:08	pH	4.61	pH
GC-AP-MW-33	4/22/2020 10:08	Temperature	17.78	C
GC-AP-MW-33	4/22/2020 10:08	Turbidity	0.63	NTU
GC-AP-MW-33	4/22/2020 10:13	Conductivity	106.77	uS/cm
GC-AP-MW-33	4/22/2020 10:13	Depth to Water Detail	18.06	ft
GC-AP-MW-33	4/22/2020 10:13	DO	6.37	mg/L
GC-AP-MW-33	4/22/2020 10:13	Oxidation Reduction Potention	294.93	mv
GC-AP-MW-33	4/22/2020 10:13	pH	4.61	pH
GC-AP-MW-33	4/22/2020 10:13	Temperature	17.75	C
GC-AP-MW-33	4/22/2020 10:13	Turbidity	0.51	NTU
GC-AP-MW-33	4/22/2020 10:18	Conductivity	105.63	uS/cm
GC-AP-MW-33	4/22/2020 10:18	Depth to Water Detail	18.06	ft
GC-AP-MW-33	4/22/2020 10:18	DO	6.34	mg/L
GC-AP-MW-33	4/22/2020 10:18	Oxidation Reduction Potention	302.23	mv
GC-AP-MW-33	4/22/2020 10:18	pH	4.67	pH
GC-AP-MW-33	4/22/2020 10:18	Temperature	17.74	C
GC-AP-MW-33	4/22/2020 10:18	Turbidity	0.38	NTU
GC-AP-MW-33	4/22/2020 10:23	Conductivity	103.98	uS/cm
GC-AP-MW-33	4/22/2020 10:23	Depth to Water Detail	18.06	ft
GC-AP-MW-33	4/22/2020 10:23	DO	6.35	mg/L
GC-AP-MW-33	4/22/2020 10:23	Oxidation Reduction Potention	308.54	mv
GC-AP-MW-33	4/22/2020 10:23	pH	4.71	pH
GC-AP-MW-33	4/22/2020 10:23	Temperature	17.68	C
GC-AP-MW-33	4/22/2020 10:23	Turbidity	0.33	NTU

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Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-34HA	4/22/2020 12:11	Conductivity	150.1	uS/cm
GC-AP-MW-34HA	4/22/2020 12:11	Depth to Water Detail	20.14	ft
GC-AP-MW-34HA	4/22/2020 12:11	DO	1.91	mg/L
GC-AP-MW-34HA	4/22/2020 12:11	Oxidation Reduction Potention	249.17	mv
GC-AP-MW-34HA	4/22/2020 12:11	pH	5.45	pH
GC-AP-MW-34HA	4/22/2020 12:11	Temperature	20.48	C
GC-AP-MW-34HA	4/22/2020 12:11	Turbidity	1.6	NTU
GC-AP-MW-34HA	4/22/2020 12:16	Conductivity	145.57	uS/cm
GC-AP-MW-34HA	4/22/2020 12:16	Depth to Water Detail	20.14	ft
GC-AP-MW-34HA	4/22/2020 12:16	DO	1.91	mg/L
GC-AP-MW-34HA	4/22/2020 12:16	Oxidation Reduction Potention	255.65	mv
GC-AP-MW-34HA	4/22/2020 12:16	pH	5.44	pH
GC-AP-MW-34HA	4/22/2020 12:16	Temperature	20.45	C
GC-AP-MW-34HA	4/22/2020 12:16	Turbidity	0.78	NTU
GC-AP-MW-34HA	4/22/2020 12:21	Conductivity	167.94	uS/cm
GC-AP-MW-34HA	4/22/2020 12:21	Depth to Water Detail	20.14	ft
GC-AP-MW-34HA	4/22/2020 12:21	DO	1.97	mg/L
GC-AP-MW-34HA	4/22/2020 12:21	Oxidation Reduction Potention	260.76	mv
GC-AP-MW-34HA	4/22/2020 12:21	pH	5.44	pH
GC-AP-MW-34HA	4/22/2020 12:21	Temperature	20.57	C
GC-AP-MW-34HA	4/22/2020 12:21	Turbidity	1.32	NTU
GC-AP-MW-34HA	4/22/2020 12:26	Conductivity	165.22	uS/cm
GC-AP-MW-34HA	4/22/2020 12:26	Depth to Water Detail	20.14	ft
GC-AP-MW-34HA	4/22/2020 12:26	DO	1.98	mg/L
GC-AP-MW-34HA	4/22/2020 12:26	Oxidation Reduction Potention	264.67	mv
GC-AP-MW-34HA	4/22/2020 12:26	pH	5.45	pH
GC-AP-MW-34HA	4/22/2020 12:26	Temperature	20.42	C
GC-AP-MW-34HA	4/22/2020 12:26	Turbidity	0.54	NTU
GC-AP-MW-34HA	4/22/2020 12:31	Conductivity	164.68	uS/cm
GC-AP-MW-34HA	4/22/2020 12:31	Depth to Water Detail	20.14	ft
GC-AP-MW-34HA	4/22/2020 12:31	DO	1.98	mg/L
GC-AP-MW-34HA	4/22/2020 12:31	Oxidation Reduction Potention	268.37	mv
GC-AP-MW-34HA	4/22/2020 12:31	pH	5.45	pH
GC-AP-MW-34HA	4/22/2020 12:31	Temperature	20.44	C
GC-AP-MW-34HA	4/22/2020 12:31	Turbidity	0.5	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-35H	4/21/2020 14:59	Conductivity	293.93	uS/cm
GC-AP-MW-35H	4/21/2020 14:59	Depth to Water Detail	17.82	ft
GC-AP-MW-35H	4/21/2020 14:59	DO	5.02	mg/L
GC-AP-MW-35H	4/21/2020 14:59	Oxidation Reduction Potention	132.76	mv
GC-AP-MW-35H	4/21/2020 14:59	pH	6.43	pH
GC-AP-MW-35H	4/21/2020 14:59	Temperature	19.69	C
GC-AP-MW-35H	4/21/2020 14:59	Turbidity	2.91	NTU
GC-AP-MW-35H	4/21/2020 15:04	Conductivity	280.79	uS/cm
GC-AP-MW-35H	4/21/2020 15:04	Depth to Water Detail	17.82	ft
GC-AP-MW-35H	4/21/2020 15:04	DO	5.35	mg/L
GC-AP-MW-35H	4/21/2020 15:04	Oxidation Reduction Potention	145.58	mv
GC-AP-MW-35H	4/21/2020 15:04	pH	6.39	pH
GC-AP-MW-35H	4/21/2020 15:04	Temperature	19.72	C
GC-AP-MW-35H	4/21/2020 15:04	Turbidity	2.69	NTU
GC-AP-MW-35H	4/21/2020 15:09	Conductivity	297.56	uS/cm
GC-AP-MW-35H	4/21/2020 15:09	Depth to Water Detail	17.82	ft
GC-AP-MW-35H	4/21/2020 15:09	DO	4.97	mg/L
GC-AP-MW-35H	4/21/2020 15:09	Oxidation Reduction Potention	146.06	mv
GC-AP-MW-35H	4/21/2020 15:09	pH	6.47	pH
GC-AP-MW-35H	4/21/2020 15:09	Temperature	19.74	C
GC-AP-MW-35H	4/21/2020 15:09	Turbidity	2.66	NTU
GC-AP-MW-35H	4/21/2020 15:14	Conductivity	282.58	uS/cm
GC-AP-MW-35H	4/21/2020 15:14	Depth to Water Detail	17.82	ft
GC-AP-MW-35H	4/21/2020 15:14	DO	5.44	mg/L
GC-AP-MW-35H	4/21/2020 15:14	Oxidation Reduction Potention	146.77	mv
GC-AP-MW-35H	4/21/2020 15:14	pH	6.46	pH
GC-AP-MW-35H	4/21/2020 15:14	Temperature	19.6	C
GC-AP-MW-35H	4/21/2020 15:14	Turbidity	2.64	NTU
GC-AP-MW-35H	4/21/2020 15:19	Conductivity	271.42	uS/cm
GC-AP-MW-35H	4/21/2020 15:19	Depth to Water Detail	17.82	ft
GC-AP-MW-35H	4/21/2020 15:19	DO	5.57	mg/L
GC-AP-MW-35H	4/21/2020 15:19	Oxidation Reduction Potention	146.89	mv
GC-AP-MW-35H	4/21/2020 15:19	pH	6.48	pH
GC-AP-MW-35H	4/21/2020 15:19	Temperature	19.61	C
GC-AP-MW-35H	4/21/2020 15:19	Turbidity	2.46	NTU
GC-AP-MW-35H	4/21/2020 15:24	Conductivity	274.51	uS/cm
GC-AP-MW-35H	4/21/2020 15:24	Depth to Water Detail	17.82	ft
GC-AP-MW-35H	4/21/2020 15:24	DO	5.5	mg/L
GC-AP-MW-35H	4/21/2020 15:24	Oxidation Reduction Potention	145.31	mv
GC-AP-MW-35H	4/21/2020 15:24	pH	6.54	pH
GC-AP-MW-35H	4/21/2020 15:24	Temperature	19.58	C
GC-AP-MW-35H	4/21/2020 15:24	Turbidity	2.62	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-36H	4/22/2020 11:20	Conductivity	300.81	uS/cm
GC-AP-MW-36H	4/22/2020 11:20	Depth to Water Detail	19.46	ft
GC-AP-MW-36H	4/22/2020 11:20	DO	0.4	mg/L
GC-AP-MW-36H	4/22/2020 11:20	Oxidation Reduction Potention	86.1	mv
GC-AP-MW-36H	4/22/2020 11:20	pH	7.63	pH
GC-AP-MW-36H	4/22/2020 11:20	Temperature	22.04	C
GC-AP-MW-36H	4/22/2020 11:20	Turbidity	9.18	NTU
GC-AP-MW-36H	4/22/2020 11:25	Conductivity	302.35	uS/cm
GC-AP-MW-36H	4/22/2020 11:25	Depth to Water Detail	19.46	ft
GC-AP-MW-36H	4/22/2020 11:25	DO	0.35	mg/L
GC-AP-MW-36H	4/22/2020 11:25	Oxidation Reduction Potention	66.36	mv
GC-AP-MW-36H	4/22/2020 11:25	pH	7.75	pH
GC-AP-MW-36H	4/22/2020 11:25	Temperature	22.1	C
GC-AP-MW-36H	4/22/2020 11:25	Turbidity	10.83	NTU
GC-AP-MW-36H	4/22/2020 11:30	Conductivity	299.3	uS/cm
GC-AP-MW-36H	4/22/2020 11:30	Depth to Water Detail	19.46	ft
GC-AP-MW-36H	4/22/2020 11:30	DO	0.33	mg/L
GC-AP-MW-36H	4/22/2020 11:30	Oxidation Reduction Potention	50.63	mv
GC-AP-MW-36H	4/22/2020 11:30	pH	7.61	pH
GC-AP-MW-36H	4/22/2020 11:30	Temperature	22.13	C
GC-AP-MW-36H	4/22/2020 11:30	Turbidity	10.84	NTU
GC-AP-MW-36H	4/22/2020 11:35	Conductivity	300.6	uS/cm
GC-AP-MW-36H	4/22/2020 11:35	Depth to Water Detail	19.46	ft
GC-AP-MW-36H	4/22/2020 11:35	DO	0.33	mg/L
GC-AP-MW-36H	4/22/2020 11:35	Oxidation Reduction Potention	38.42	mv
GC-AP-MW-36H	4/22/2020 11:35	pH	7.57	pH
GC-AP-MW-36H	4/22/2020 11:35	Temperature	22.17	C
GC-AP-MW-36H	4/22/2020 11:35	Turbidity	10.72	NTU
GC-AP-MW-36H	4/22/2020 11:40	Conductivity	299.7	uS/cm
GC-AP-MW-36H	4/22/2020 11:40	Depth to Water Detail	19.46	ft
GC-AP-MW-36H	4/22/2020 11:40	DO	0.34	mg/L
GC-AP-MW-36H	4/22/2020 11:40	Oxidation Reduction Potention	25.58	mv
GC-AP-MW-36H	4/22/2020 11:40	pH	7.72	pH
GC-AP-MW-36H	4/22/2020 11:40	Temperature	22.21	C
GC-AP-MW-36H	4/22/2020 11:40	Turbidity	9.62	NTU

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Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-37H	4/22/2020 15:15	Conductivity	1272.92	uS/cm
GC-AP-MW-37H	4/22/2020 15:15	Depth to Water Detail	22.03	ft
GC-AP-MW-37H	4/22/2020 15:15	DO	0.86	mg/L
GC-AP-MW-37H	4/22/2020 15:15	Oxidation Reduction Potention	-31.68	mv
GC-AP-MW-37H	4/22/2020 15:15	pH	6.21	pH
GC-AP-MW-37H	4/22/2020 15:15	Temperature	20.08	C
GC-AP-MW-37H	4/22/2020 15:15	Turbidity	11.94	NTU
GC-AP-MW-37H	4/22/2020 15:20	Conductivity	1271.75	uS/cm
GC-AP-MW-37H	4/22/2020 15:20	Depth to Water Detail	22.96	ft
GC-AP-MW-37H	4/22/2020 15:20	DO	0.75	mg/L
GC-AP-MW-37H	4/22/2020 15:20	Oxidation Reduction Potention	-27.69	mv
GC-AP-MW-37H	4/22/2020 15:20	pH	6.14	pH
GC-AP-MW-37H	4/22/2020 15:20	Temperature	20.03	C
GC-AP-MW-37H	4/22/2020 15:20	Turbidity	8.57	NTU
GC-AP-MW-37H	4/22/2020 15:25	Conductivity	1266.05	uS/cm
GC-AP-MW-37H	4/22/2020 15:25	Depth to Water Detail	23.37	ft
GC-AP-MW-37H	4/22/2020 15:25	DO	0.69	mg/L
GC-AP-MW-37H	4/22/2020 15:25	Oxidation Reduction Potention	-26.91	mv
GC-AP-MW-37H	4/22/2020 15:25	pH	6.13	pH
GC-AP-MW-37H	4/22/2020 15:25	Temperature	19.96	C
GC-AP-MW-37H	4/22/2020 15:25	Turbidity	10.43	NTU
GC-AP-MW-37H	4/22/2020 15:30	Conductivity	1259.4	uS/cm
GC-AP-MW-37H	4/22/2020 15:30	Depth to Water Detail	23.66	ft
GC-AP-MW-37H	4/22/2020 15:30	DO	0.63	mg/L
GC-AP-MW-37H	4/22/2020 15:30	Oxidation Reduction Potention	-27.18	mv
GC-AP-MW-37H	4/22/2020 15:30	pH	6.14	pH
GC-AP-MW-37H	4/22/2020 15:30	Temperature	19.86	C
GC-AP-MW-37H	4/22/2020 15:30	Turbidity	11.29	NTU
GC-AP-MW-37H	4/22/2020 15:35	Conductivity	1252.98	uS/cm
GC-AP-MW-37H	4/22/2020 15:35	Depth to Water Detail	24.1	ft
GC-AP-MW-37H	4/22/2020 15:35	DO	0.62	mg/L
GC-AP-MW-37H	4/22/2020 15:35	Oxidation Reduction Potention	-28.29	mv
GC-AP-MW-37H	4/22/2020 15:35	pH	6.15	pH
GC-AP-MW-37H	4/22/2020 15:35	Temperature	19.89	C
GC-AP-MW-37H	4/22/2020 15:35	Turbidity	11.77	NTU
GC-AP-MW-37H	4/22/2020 15:40	Conductivity	1246.96	uS/cm
GC-AP-MW-37H	4/22/2020 15:40	Depth to Water Detail	24.34	ft
GC-AP-MW-37H	4/22/2020 15:40	DO	0.59	mg/L
GC-AP-MW-37H	4/22/2020 15:40	Oxidation Reduction Potention	-31.25	mv
GC-AP-MW-37H	4/22/2020 15:40	pH	6.17	pH
GC-AP-MW-37H	4/22/2020 15:40	Temperature	19.89	C
GC-AP-MW-37H	4/22/2020 15:40	Turbidity	10.13	NTU
GC-AP-MW-37H	4/22/2020 15:45	Conductivity	1243.02	uS/cm
GC-AP-MW-37H	4/22/2020 15:45	Depth to Water Detail	24.46	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-37H	4/22/2020 15:45	DO	0.56	mg/L
GC-AP-MW-37H	4/22/2020 15:45	Oxidation Reduction Potention	-32.92	mv
GC-AP-MW-37H	4/22/2020 15:45	pH	6.2	pH
GC-AP-MW-37H	4/22/2020 15:45	Temperature	19.87	C
GC-AP-MW-37H	4/22/2020 15:45	Turbidity	9.29	NTU
GC-AP-MW-37H	4/22/2020 15:50	Conductivity	1244.7	uS/cm
GC-AP-MW-37H	4/22/2020 15:50	Depth to Water Detail	24.55	ft
GC-AP-MW-37H	4/22/2020 15:50	DO	0.54	mg/L
GC-AP-MW-37H	4/22/2020 15:50	Oxidation Reduction Potention	-34.66	mv
GC-AP-MW-37H	4/22/2020 15:50	pH	6.21	pH
GC-AP-MW-37H	4/22/2020 15:50	Temperature	19.87	C
GC-AP-MW-37H	4/22/2020 15:50	Turbidity	8.36	NTU
GC-AP-MW-37H	4/22/2020 15:55	Conductivity	1242.68	uS/cm
GC-AP-MW-37H	4/22/2020 15:55	Depth to Water Detail	24.61	ft
GC-AP-MW-37H	4/22/2020 15:55	DO	0.52	mg/L
GC-AP-MW-37H	4/22/2020 15:55	Oxidation Reduction Potention	-35.85	mv
GC-AP-MW-37H	4/22/2020 15:55	pH	6.23	pH
GC-AP-MW-37H	4/22/2020 15:55	Temperature	19.88	C
GC-AP-MW-37H	4/22/2020 15:55	Turbidity	7.69	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-38H	4/22/2020 12:28	Conductivity	487.68	uS/cm
GC-AP-MW-38H	4/22/2020 12:28	Depth to Water Detail	19.91	ft
GC-AP-MW-38H	4/22/2020 12:28	DO	2.01	mg/L
GC-AP-MW-38H	4/22/2020 12:28	Oxidation Reduction Potention	74.58	mv
GC-AP-MW-38H	4/22/2020 12:28	pH	6.61	pH
GC-AP-MW-38H	4/22/2020 12:28	Temperature	19.45	C
GC-AP-MW-38H	4/22/2020 12:28	Turbidity	9.66	NTU
GC-AP-MW-38H	4/22/2020 12:33	Conductivity	478.22	uS/cm
GC-AP-MW-38H	4/22/2020 12:33	Depth to Water Detail	20.06	ft
GC-AP-MW-38H	4/22/2020 12:33	DO	1.82	mg/L
GC-AP-MW-38H	4/22/2020 12:33	Oxidation Reduction Potention	77.62	mv
GC-AP-MW-38H	4/22/2020 12:33	pH	6.63	pH
GC-AP-MW-38H	4/22/2020 12:33	Temperature	19.38	C
GC-AP-MW-38H	4/22/2020 12:33	Turbidity	8.05	NTU
GC-AP-MW-38H	4/22/2020 12:38	Conductivity	464.5	uS/cm
GC-AP-MW-38H	4/22/2020 12:38	Depth to Water Detail	20.18	ft
GC-AP-MW-38H	4/22/2020 12:38	DO	1.91	mg/L
GC-AP-MW-38H	4/22/2020 12:38	Oxidation Reduction Potention	80.39	mv
GC-AP-MW-38H	4/22/2020 12:38	pH	6.62	pH
GC-AP-MW-38H	4/22/2020 12:38	Temperature	19.41	C
GC-AP-MW-38H	4/22/2020 12:38	Turbidity	5.01	NTU
GC-AP-MW-38H	4/22/2020 12:43	Conductivity	456.47	uS/cm
GC-AP-MW-38H	4/22/2020 12:43	Depth to Water Detail	20.21	ft
GC-AP-MW-38H	4/22/2020 12:43	DO	2.08	mg/L
GC-AP-MW-38H	4/22/2020 12:43	Oxidation Reduction Potention	80.31	mv
GC-AP-MW-38H	4/22/2020 12:43	pH	6.62	pH
GC-AP-MW-38H	4/22/2020 12:43	Temperature	19.61	C
GC-AP-MW-38H	4/22/2020 12:43	Turbidity	4.02	NTU
GC-AP-MW-38H	4/22/2020 12:48	Conductivity	442.42	uS/cm
GC-AP-MW-38H	4/22/2020 12:48	Depth to Water Detail	20.24	ft
GC-AP-MW-38H	4/22/2020 12:48	DO	2.16	mg/L
GC-AP-MW-38H	4/22/2020 12:48	Oxidation Reduction Potention	81.69	mv
GC-AP-MW-38H	4/22/2020 12:48	pH	6.65	pH
GC-AP-MW-38H	4/22/2020 12:48	Temperature	19.35	C
GC-AP-MW-38H	4/22/2020 12:48	Turbidity	3.67	NTU
GC-AP-MW-38H	4/22/2020 12:53	Conductivity	442.69	uS/cm
GC-AP-MW-38H	4/22/2020 12:53	Depth to Water Detail	20.24	ft
GC-AP-MW-38H	4/22/2020 12:53	DO	2.24	mg/L
GC-AP-MW-38H	4/22/2020 12:53	Oxidation Reduction Potention	83.61	mv
GC-AP-MW-38H	4/22/2020 12:53	pH	6.66	pH
GC-AP-MW-38H	4/22/2020 12:53	Temperature	19.41	C
GC-AP-MW-38H	4/22/2020 12:53	Turbidity	3.36	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-39H	4/22/2020 13:43	Conductivity	849.92	uS/cm
GC-AP-MW-39H	4/22/2020 13:43	Depth to Water Detail	24.42	ft
GC-AP-MW-39H	4/22/2020 13:43	DO	0.32	mg/L
GC-AP-MW-39H	4/22/2020 13:43	Oxidation Reduction Potention	-39.26	mv
GC-AP-MW-39H	4/22/2020 13:43	pH	6.38	pH
GC-AP-MW-39H	4/22/2020 13:43	Temperature	19.63	C
GC-AP-MW-39H	4/22/2020 13:43	Turbidity	11.75	NTU
GC-AP-MW-39H	4/22/2020 13:48	Conductivity	916.76	uS/cm
GC-AP-MW-39H	4/22/2020 13:48	Depth to Water Detail	24.42	ft
GC-AP-MW-39H	4/22/2020 13:48	DO	0.28	mg/L
GC-AP-MW-39H	4/22/2020 13:48	Oxidation Reduction Potention	-40.74	mv
GC-AP-MW-39H	4/22/2020 13:48	pH	6.39	pH
GC-AP-MW-39H	4/22/2020 13:48	Temperature	19.64	C
GC-AP-MW-39H	4/22/2020 13:48	Turbidity	8.08	NTU
GC-AP-MW-39H	4/22/2020 13:53	Conductivity	904.35	uS/cm
GC-AP-MW-39H	4/22/2020 13:53	Depth to Water Detail	24.42	ft
GC-AP-MW-39H	4/22/2020 13:53	DO	0.26	mg/L
GC-AP-MW-39H	4/22/2020 13:53	Oxidation Reduction Potention	-41.97	mv
GC-AP-MW-39H	4/22/2020 13:53	pH	6.41	pH
GC-AP-MW-39H	4/22/2020 13:53	Temperature	19.63	C
GC-AP-MW-39H	4/22/2020 13:53	Turbidity	6.26	NTU
GC-AP-MW-39H	4/22/2020 13:58	Conductivity	913.64	uS/cm
GC-AP-MW-39H	4/22/2020 13:58	Depth to Water Detail	24.42	ft
GC-AP-MW-39H	4/22/2020 13:58	DO	0.24	mg/L
GC-AP-MW-39H	4/22/2020 13:58	Oxidation Reduction Potention	-42.36	mv
GC-AP-MW-39H	4/22/2020 13:58	pH	6.4	pH
GC-AP-MW-39H	4/22/2020 13:58	Temperature	19.63	C
GC-AP-MW-39H	4/22/2020 13:58	Turbidity	5.11	NTU
GC-AP-MW-39H	4/22/2020 14:03	Conductivity	901.47	uS/cm
GC-AP-MW-39H	4/22/2020 14:03	Depth to Water Detail	24.42	ft
GC-AP-MW-39H	4/22/2020 14:03	DO	0.24	mg/L
GC-AP-MW-39H	4/22/2020 14:03	Oxidation Reduction Potention	-43.6	mv
GC-AP-MW-39H	4/22/2020 14:03	pH	6.42	pH
GC-AP-MW-39H	4/22/2020 14:03	Temperature	19.52	C
GC-AP-MW-39H	4/22/2020 14:03	Turbidity	4.86	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-40H	4/20/2020 14:59	Conductivity	805.87	uS/cm
GC-AP-MW-40H	4/20/2020 14:59	Depth to Water Detail	4.78	ft
GC-AP-MW-40H	4/20/2020 14:59	DO	0.24	mg/L
GC-AP-MW-40H	4/20/2020 14:59	Oxidation Reduction Potention	129.32	mv
GC-AP-MW-40H	4/20/2020 14:59	pH	5.78	pH
GC-AP-MW-40H	4/20/2020 14:59	Temperature	18.03	C
GC-AP-MW-40H	4/20/2020 14:59	Turbidity	22.4	NTU
GC-AP-MW-40H	4/20/2020 15:04	Conductivity	804.01	uS/cm
GC-AP-MW-40H	4/20/2020 15:04	Depth to Water Detail	4.78	ft
GC-AP-MW-40H	4/20/2020 15:04	DO	0.22	mg/L
GC-AP-MW-40H	4/20/2020 15:04	Oxidation Reduction Potention	138.65	mv
GC-AP-MW-40H	4/20/2020 15:04	pH	5.62	pH
GC-AP-MW-40H	4/20/2020 15:04	Temperature	18.02	C
GC-AP-MW-40H	4/20/2020 15:04	Turbidity	17.3	NTU
GC-AP-MW-40H	4/20/2020 15:09	Conductivity	804.39	uS/cm
GC-AP-MW-40H	4/20/2020 15:09	Depth to Water Detail	4.78	ft
GC-AP-MW-40H	4/20/2020 15:09	DO	0.19	mg/L
GC-AP-MW-40H	4/20/2020 15:09	Oxidation Reduction Potention	139.92	mv
GC-AP-MW-40H	4/20/2020 15:09	pH	5.59	pH
GC-AP-MW-40H	4/20/2020 15:09	Temperature	17.97	C
GC-AP-MW-40H	4/20/2020 15:09	Turbidity	11.8	NTU
GC-AP-MW-40H	4/20/2020 15:14	Conductivity	805.47	uS/cm
GC-AP-MW-40H	4/20/2020 15:14	Depth to Water Detail	4.78	ft
GC-AP-MW-40H	4/20/2020 15:14	DO	0.19	mg/L
GC-AP-MW-40H	4/20/2020 15:14	Oxidation Reduction Potention	139.31	mv
GC-AP-MW-40H	4/20/2020 15:14	pH	5.6	pH
GC-AP-MW-40H	4/20/2020 15:14	Temperature	17.96	C
GC-AP-MW-40H	4/20/2020 15:14	Turbidity	7.38	NTU
GC-AP-MW-40H	4/20/2020 15:19	Conductivity	804.75	uS/cm
GC-AP-MW-40H	4/20/2020 15:19	Depth to Water Detail	4.78	ft
GC-AP-MW-40H	4/20/2020 15:19	DO	0.18	mg/L
GC-AP-MW-40H	4/20/2020 15:19	Oxidation Reduction Potention	138.56	mv
GC-AP-MW-40H	4/20/2020 15:19	pH	5.61	pH
GC-AP-MW-40H	4/20/2020 15:19	Temperature	17.99	C
GC-AP-MW-40H	4/20/2020 15:19	Turbidity	5.98	NTU
GC-AP-MW-40H	4/20/2020 15:24	Conductivity	807.17	uS/cm
GC-AP-MW-40H	4/20/2020 15:24	Depth to Water Detail	4.78	ft
GC-AP-MW-40H	4/20/2020 15:24	DO	0.18	mg/L
GC-AP-MW-40H	4/20/2020 15:24	Oxidation Reduction Potention	137.58	mv
GC-AP-MW-40H	4/20/2020 15:24	pH	5.63	pH
GC-AP-MW-40H	4/20/2020 15:24	Temperature	18.01	C
GC-AP-MW-40H	4/20/2020 15:24	Turbidity	4.86	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-41H	4/29/2020 11:45	Conductivity	550.09	uS/cm
GC-AP-MW-41H	4/29/2020 11:45	Depth to Water Detail	7.35	ft
GC-AP-MW-41H	4/29/2020 11:45	DO	0.19	mg/L
GC-AP-MW-41H	4/29/2020 11:45	Oxidation Reduction Potention	-43.31	mv
GC-AP-MW-41H	4/29/2020 11:45	pH	6.39	pH
GC-AP-MW-41H	4/29/2020 11:45	Temperature	19.02	C
GC-AP-MW-41H	4/29/2020 11:45	Turbidity	27.2	NTU
GC-AP-MW-41H	4/29/2020 11:50	Conductivity	534.7	uS/cm
GC-AP-MW-41H	4/29/2020 11:50	Depth to Water Detail	7.35	ft
GC-AP-MW-41H	4/29/2020 11:50	DO	0.17	mg/L
GC-AP-MW-41H	4/29/2020 11:50	Oxidation Reduction Potention	-38.5	mv
GC-AP-MW-41H	4/29/2020 11:50	pH	6.38	pH
GC-AP-MW-41H	4/29/2020 11:50	Temperature	18.92	C
GC-AP-MW-41H	4/29/2020 11:50	Turbidity	100.3	NTU
GC-AP-MW-41H	4/29/2020 11:55	Conductivity	526.85	uS/cm
GC-AP-MW-41H	4/29/2020 11:55	Depth to Water Detail	7.35	ft
GC-AP-MW-41H	4/29/2020 11:55	DO	0.16	mg/L
GC-AP-MW-41H	4/29/2020 11:55	Oxidation Reduction Potention	-38.17	mv
GC-AP-MW-41H	4/29/2020 11:55	pH	6.39	pH
GC-AP-MW-41H	4/29/2020 11:55	Temperature	18.94	C
GC-AP-MW-41H	4/29/2020 11:55	Turbidity	11.3	NTU
GC-AP-MW-41H	4/29/2020 12:00	Conductivity	522.27	uS/cm
GC-AP-MW-41H	4/29/2020 12:00	Depth to Water Detail	7.35	ft
GC-AP-MW-41H	4/29/2020 12:00	DO	0.16	mg/L
GC-AP-MW-41H	4/29/2020 12:00	Oxidation Reduction Potention	-36.91	mv
GC-AP-MW-41H	4/29/2020 12:00	pH	6.39	pH
GC-AP-MW-41H	4/29/2020 12:00	Temperature	18.97	C
GC-AP-MW-41H	4/29/2020 12:00	Turbidity	8.18	NTU
GC-AP-MW-41H	4/29/2020 12:05	Conductivity	520.34	uS/cm
GC-AP-MW-41H	4/29/2020 12:05	Depth to Water Detail	7.35	ft
GC-AP-MW-41H	4/29/2020 12:05	DO	0.15	mg/L
GC-AP-MW-41H	4/29/2020 12:05	Oxidation Reduction Potention	-34.95	mv
GC-AP-MW-41H	4/29/2020 12:05	pH	6.37	pH
GC-AP-MW-41H	4/29/2020 12:05	Temperature	18.99	C
GC-AP-MW-41H	4/29/2020 12:05	Turbidity	6.08	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	4/21/2020 14:06	Conductivity	524.37	uS/cm
GC-AP-MW-42H	4/21/2020 14:06	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:06	DO	0.19	mg/L
GC-AP-MW-42H	4/21/2020 14:06	Oxidation Reduction Potention	42.49	mv
GC-AP-MW-42H	4/21/2020 14:06	pH	5.93	pH
GC-AP-MW-42H	4/21/2020 14:06	Temperature	19.29	C
GC-AP-MW-42H	4/21/2020 14:06	Turbidity	45.6	NTU
GC-AP-MW-42H	4/21/2020 14:11	Conductivity	521.27	uS/cm
GC-AP-MW-42H	4/21/2020 14:11	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:11	DO	0.2	mg/L
GC-AP-MW-42H	4/21/2020 14:11	Oxidation Reduction Potention	40.2	mv
GC-AP-MW-42H	4/21/2020 14:11	pH	5.93	pH
GC-AP-MW-42H	4/21/2020 14:11	Temperature	19.31	C
GC-AP-MW-42H	4/21/2020 14:11	Turbidity	33.8	NTU
GC-AP-MW-42H	4/21/2020 14:16	Conductivity	515.49	uS/cm
GC-AP-MW-42H	4/21/2020 14:16	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:16	DO	0.16	mg/L
GC-AP-MW-42H	4/21/2020 14:16	Oxidation Reduction Potention	38.33	mv
GC-AP-MW-42H	4/21/2020 14:16	pH	5.94	pH
GC-AP-MW-42H	4/21/2020 14:16	Temperature	19.23	C
GC-AP-MW-42H	4/21/2020 14:16	Turbidity	30.6	NTU
GC-AP-MW-42H	4/21/2020 14:21	Conductivity	514.17	uS/cm
GC-AP-MW-42H	4/21/2020 14:21	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:21	DO	0.15	mg/L
GC-AP-MW-42H	4/21/2020 14:21	Oxidation Reduction Potention	36.49	mv
GC-AP-MW-42H	4/21/2020 14:21	pH	5.97	pH
GC-AP-MW-42H	4/21/2020 14:21	Temperature	19.15	C
GC-AP-MW-42H	4/21/2020 14:21	Turbidity	24.2	NTU
GC-AP-MW-42H	4/21/2020 14:26	Conductivity	511.44	uS/cm
GC-AP-MW-42H	4/21/2020 14:26	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:26	DO	0.15	mg/L
GC-AP-MW-42H	4/21/2020 14:26	Oxidation Reduction Potention	35.87	mv
GC-AP-MW-42H	4/21/2020 14:26	pH	5.97	pH
GC-AP-MW-42H	4/21/2020 14:26	Temperature	19.1	C
GC-AP-MW-42H	4/21/2020 14:26	Turbidity	18.9	NTU
GC-AP-MW-42H	4/21/2020 14:31	Conductivity	509.41	uS/cm
GC-AP-MW-42H	4/21/2020 14:31	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:31	DO	0.15	mg/L
GC-AP-MW-42H	4/21/2020 14:31	Oxidation Reduction Potention	35.45	mv
GC-AP-MW-42H	4/21/2020 14:31	pH	5.97	pH
GC-AP-MW-42H	4/21/2020 14:31	Temperature	19.02	C
GC-AP-MW-42H	4/21/2020 14:31	Turbidity	15.3	NTU
GC-AP-MW-42H	4/21/2020 14:36	Conductivity	507.03	uS/cm
GC-AP-MW-42H	4/21/2020 14:36	Depth to Water Detail	2.67	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	4/21/2020 14:36	DO	0.15	mg/L
GC-AP-MW-42H	4/21/2020 14:36	Oxidation Reduction Potention	34.67	mv
GC-AP-MW-42H	4/21/2020 14:36	pH	5.97	pH
GC-AP-MW-42H	4/21/2020 14:36	Temperature	19.03	C
GC-AP-MW-42H	4/21/2020 14:36	Turbidity	13.1	NTU
GC-AP-MW-42H	4/21/2020 14:41	Conductivity	506.94	uS/cm
GC-AP-MW-42H	4/21/2020 14:41	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:41	DO	0.15	mg/L
GC-AP-MW-42H	4/21/2020 14:41	Oxidation Reduction Potention	33.58	mv
GC-AP-MW-42H	4/21/2020 14:41	pH	5.98	pH
GC-AP-MW-42H	4/21/2020 14:41	Temperature	18.95	C
GC-AP-MW-42H	4/21/2020 14:41	Turbidity	10.72	NTU
GC-AP-MW-42H	4/21/2020 14:46	Conductivity	507.63	uS/cm
GC-AP-MW-42H	4/21/2020 14:46	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:46	DO	0.15	mg/L
GC-AP-MW-42H	4/21/2020 14:46	Oxidation Reduction Potention	32.32	mv
GC-AP-MW-42H	4/21/2020 14:46	pH	5.99	pH
GC-AP-MW-42H	4/21/2020 14:46	Temperature	18.99	C
GC-AP-MW-42H	4/21/2020 14:46	Turbidity	9.24	NTU
GC-AP-MW-42H	4/21/2020 14:51	Conductivity	507.77	uS/cm
GC-AP-MW-42H	4/21/2020 14:51	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:51	DO	0.15	mg/L
GC-AP-MW-42H	4/21/2020 14:51	Oxidation Reduction Potention	30.96	mv
GC-AP-MW-42H	4/21/2020 14:51	pH	6	pH
GC-AP-MW-42H	4/21/2020 14:51	Temperature	18.96	C
GC-AP-MW-42H	4/21/2020 14:51	Turbidity	7.64	NTU
GC-AP-MW-42H	4/21/2020 14:56	Conductivity	504.29	uS/cm
GC-AP-MW-42H	4/21/2020 14:56	Depth to Water Detail	2.67	ft
GC-AP-MW-42H	4/21/2020 14:56	DO	0.15	mg/L
GC-AP-MW-42H	4/21/2020 14:56	Oxidation Reduction Potention	29.74	mv
GC-AP-MW-42H	4/21/2020 14:56	pH	6.01	pH
GC-AP-MW-42H	4/21/2020 14:56	Temperature	18.92	C
GC-AP-MW-42H	4/21/2020 14:56	Turbidity	6.56	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-43H	4/21/2020 13:08	Conductivity	779.49	uS/cm
GC-AP-MW-43H	4/21/2020 13:08	Depth to Water Detail	4.63	ft
GC-AP-MW-43H	4/21/2020 13:08	DO	0.24	mg/L
GC-AP-MW-43H	4/21/2020 13:08	Oxidation Reduction Potention	13.2	mv
GC-AP-MW-43H	4/21/2020 13:08	pH	6.07	pH
GC-AP-MW-43H	4/21/2020 13:08	Temperature	18.94	C
GC-AP-MW-43H	4/21/2020 13:08	Turbidity	19.7	NTU
GC-AP-MW-43H	4/21/2020 13:13	Conductivity	777.19	uS/cm
GC-AP-MW-43H	4/21/2020 13:13	Depth to Water Detail	4.63	ft
GC-AP-MW-43H	4/21/2020 13:13	DO	0.22	mg/L
GC-AP-MW-43H	4/21/2020 13:13	Oxidation Reduction Potention	7.49	mv
GC-AP-MW-43H	4/21/2020 13:13	pH	6.09	pH
GC-AP-MW-43H	4/21/2020 13:13	Temperature	18.95	C
GC-AP-MW-43H	4/21/2020 13:13	Turbidity	10	NTU
GC-AP-MW-43H	4/21/2020 13:18	Conductivity	777.21	uS/cm
GC-AP-MW-43H	4/21/2020 13:18	Depth to Water Detail	4.63	ft
GC-AP-MW-43H	4/21/2020 13:18	DO	0.21	mg/L
GC-AP-MW-43H	4/21/2020 13:18	Oxidation Reduction Potention	3.19	mv
GC-AP-MW-43H	4/21/2020 13:18	pH	6.12	pH
GC-AP-MW-43H	4/21/2020 13:18	Temperature	18.97	C
GC-AP-MW-43H	4/21/2020 13:18	Turbidity	7.92	NTU
GC-AP-MW-43H	4/21/2020 13:23	Conductivity	777.32	uS/cm
GC-AP-MW-43H	4/21/2020 13:23	Depth to Water Detail	4.63	ft
GC-AP-MW-43H	4/21/2020 13:23	DO	0.21	mg/L
GC-AP-MW-43H	4/21/2020 13:23	Oxidation Reduction Potention	-0.83	mv
GC-AP-MW-43H	4/21/2020 13:23	pH	6.14	pH
GC-AP-MW-43H	4/21/2020 13:23	Temperature	19.02	C
GC-AP-MW-43H	4/21/2020 13:23	Turbidity	8.44	NTU
GC-AP-MW-43H	4/21/2020 13:28	Conductivity	776.49	uS/cm
GC-AP-MW-43H	4/21/2020 13:28	Depth to Water Detail	4.63	ft
GC-AP-MW-43H	4/21/2020 13:28	DO	0.21	mg/L
GC-AP-MW-43H	4/21/2020 13:28	Oxidation Reduction Potention	-3.58	mv
GC-AP-MW-43H	4/21/2020 13:28	pH	6.16	pH
GC-AP-MW-43H	4/21/2020 13:28	Temperature	19.14	C
GC-AP-MW-43H	4/21/2020 13:28	Turbidity	6.24	NTU
GC-AP-MW-43H	4/21/2020 13:33	Conductivity	775.26	uS/cm
GC-AP-MW-43H	4/21/2020 13:33	Depth to Water Detail	4.63	ft
GC-AP-MW-43H	4/21/2020 13:33	DO	0.2	mg/L
GC-AP-MW-43H	4/21/2020 13:33	Oxidation Reduction Potention	-6.21	mv
GC-AP-MW-43H	4/21/2020 13:33	pH	6.18	pH
GC-AP-MW-43H	4/21/2020 13:33	Temperature	19.23	C
GC-AP-MW-43H	4/21/2020 13:33	Turbidity	4.92	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-44H	4/20/2020 14:42	Conductivity	909.59	uS/cm
GC-AP-MW-44H	4/20/2020 14:42	Depth to Water Detail	4.32	ft
GC-AP-MW-44H	4/20/2020 14:42	DO	0.07	mg/L
GC-AP-MW-44H	4/20/2020 14:42	Oxidation Reduction Potention	47.36	mv
GC-AP-MW-44H	4/20/2020 14:42	pH	6.07	pH
GC-AP-MW-44H	4/20/2020 14:42	Temperature	17.51	C
GC-AP-MW-44H	4/20/2020 14:42	Turbidity	47.4	NTU
GC-AP-MW-44H	4/20/2020 14:47	Conductivity	913.8	uS/cm
GC-AP-MW-44H	4/20/2020 14:47	Depth to Water Detail	4.61	ft
GC-AP-MW-44H	4/20/2020 14:47	DO	0.06	mg/L
GC-AP-MW-44H	4/20/2020 14:47	Oxidation Reduction Potention	49.04	mv
GC-AP-MW-44H	4/20/2020 14:47	pH	6.05	pH
GC-AP-MW-44H	4/20/2020 14:47	Temperature	17.53	C
GC-AP-MW-44H	4/20/2020 14:47	Turbidity	40.7	NTU
GC-AP-MW-44H	4/20/2020 14:52	Conductivity	915.23	uS/cm
GC-AP-MW-44H	4/20/2020 14:52	Depth to Water Detail	4.64	ft
GC-AP-MW-44H	4/20/2020 14:52	DO	0.06	mg/L
GC-AP-MW-44H	4/20/2020 14:52	Oxidation Reduction Potention	48.37	mv
GC-AP-MW-44H	4/20/2020 14:52	pH	6.06	pH
GC-AP-MW-44H	4/20/2020 14:52	Temperature	17.54	C
GC-AP-MW-44H	4/20/2020 14:52	Turbidity	20.3	NTU
GC-AP-MW-44H	4/20/2020 14:57	Conductivity	915.91	uS/cm
GC-AP-MW-44H	4/20/2020 14:57	Depth to Water Detail	4.64	ft
GC-AP-MW-44H	4/20/2020 14:57	DO	0.06	mg/L
GC-AP-MW-44H	4/20/2020 14:57	Oxidation Reduction Potention	46.34	mv
GC-AP-MW-44H	4/20/2020 14:57	pH	6.06	pH
GC-AP-MW-44H	4/20/2020 14:57	Temperature	17.57	C
GC-AP-MW-44H	4/20/2020 14:57	Turbidity	12.9	NTU
GC-AP-MW-44H	4/20/2020 15:02	Conductivity	915.77	uS/cm
GC-AP-MW-44H	4/20/2020 15:02	Depth to Water Detail	4.64	ft
GC-AP-MW-44H	4/20/2020 15:02	DO	0.06	mg/L
GC-AP-MW-44H	4/20/2020 15:02	Oxidation Reduction Potention	44.2	mv
GC-AP-MW-44H	4/20/2020 15:02	pH	6.08	pH
GC-AP-MW-44H	4/20/2020 15:02	Temperature	17.51	C
GC-AP-MW-44H	4/20/2020 15:02	Turbidity	9.2	NTU
GC-AP-MW-44H	4/20/2020 15:07	Conductivity	914.68	uS/cm
GC-AP-MW-44H	4/20/2020 15:07	Depth to Water Detail	4.64	ft
GC-AP-MW-44H	4/20/2020 15:07	DO	0.05	mg/L
GC-AP-MW-44H	4/20/2020 15:07	Oxidation Reduction Potention	41.31	mv
GC-AP-MW-44H	4/20/2020 15:07	pH	6.1	pH
GC-AP-MW-44H	4/20/2020 15:07	Temperature	17.56	C
GC-AP-MW-44H	4/20/2020 15:07	Turbidity	6.33	NTU
GC-AP-MW-44H	4/20/2020 15:12	Conductivity	913.74	uS/cm
GC-AP-MW-44H	4/20/2020 15:12	Depth to Water Detail	4.64	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-44H	4/20/2020 15:12	DO	0.05	mg/L
GC-AP-MW-44H	4/20/2020 15:12	Oxidation Reduction Potention	38.69	mv
GC-AP-MW-44H	4/20/2020 15:12	pH	6.11	pH
GC-AP-MW-44H	4/20/2020 15:12	Temperature	17.55	C
GC-AP-MW-44H	4/20/2020 15:12	Turbidity	5.72	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-45H	4/20/2020 12:25	Conductivity	622.2	uS/cm
GC-AP-MW-45H	4/20/2020 12:25	Depth to Water Detail	12.74	ft
GC-AP-MW-45H	4/20/2020 12:25	DO	0.19	mg/L
GC-AP-MW-45H	4/20/2020 12:25	Oxidation Reduction Potention	-100.71	mv
GC-AP-MW-45H	4/20/2020 12:25	pH	7.14	pH
GC-AP-MW-45H	4/20/2020 12:25	Temperature	20.97	C
GC-AP-MW-45H	4/20/2020 12:25	Turbidity	9.45	NTU
GC-AP-MW-45H	4/20/2020 12:30	Conductivity	623.67	uS/cm
GC-AP-MW-45H	4/20/2020 12:30	Depth to Water Detail	12.74	ft
GC-AP-MW-45H	4/20/2020 12:30	DO	0.18	mg/L
GC-AP-MW-45H	4/20/2020 12:30	Oxidation Reduction Potention	-96.38	mv
GC-AP-MW-45H	4/20/2020 12:30	pH	7.06	pH
GC-AP-MW-45H	4/20/2020 12:30	Temperature	21.01	C
GC-AP-MW-45H	4/20/2020 12:30	Turbidity	17.5	NTU
GC-AP-MW-45H	4/20/2020 12:35	Conductivity	621.24	uS/cm
GC-AP-MW-45H	4/20/2020 12:35	Depth to Water Detail	12.74	ft
GC-AP-MW-45H	4/20/2020 12:35	DO	0.18	mg/L
GC-AP-MW-45H	4/20/2020 12:35	Oxidation Reduction Potention	-100.31	mv
GC-AP-MW-45H	4/20/2020 12:35	pH	7.13	pH
GC-AP-MW-45H	4/20/2020 12:35	Temperature	21	C
GC-AP-MW-45H	4/20/2020 12:35	Turbidity	12.15	NTU
GC-AP-MW-45H	4/20/2020 12:40	Conductivity	622.8	uS/cm
GC-AP-MW-45H	4/20/2020 12:40	Depth to Water Detail	12.74	ft
GC-AP-MW-45H	4/20/2020 12:40	DO	0.18	mg/L
GC-AP-MW-45H	4/20/2020 12:40	Oxidation Reduction Potention	-101.65	mv
GC-AP-MW-45H	4/20/2020 12:40	pH	7.14	pH
GC-AP-MW-45H	4/20/2020 12:40	Temperature	21.02	C
GC-AP-MW-45H	4/20/2020 12:40	Turbidity	7	NTU
GC-AP-MW-45H	4/20/2020 12:45	Conductivity	622.05	uS/cm
GC-AP-MW-45H	4/20/2020 12:45	Depth to Water Detail	12.74	ft
GC-AP-MW-45H	4/20/2020 12:45	DO	0.18	mg/L
GC-AP-MW-45H	4/20/2020 12:45	Oxidation Reduction Potention	-100.98	mv
GC-AP-MW-45H	4/20/2020 12:45	pH	7.14	pH
GC-AP-MW-45H	4/20/2020 12:45	Temperature	21.02	C
GC-AP-MW-45H	4/20/2020 12:45	Turbidity	4.07	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-48H	4/21/2020 10:48	Conductivity	336.4	uS/cm
GC-AP-MW-48H	4/21/2020 10:48	Depth to Water Detail	3.76	ft
GC-AP-MW-48H	4/21/2020 10:48	DO	0.36	mg/L
GC-AP-MW-48H	4/21/2020 10:48	Oxidation Reduction Potention	52.87	mv
GC-AP-MW-48H	4/21/2020 10:48	pH	6.39	pH
GC-AP-MW-48H	4/21/2020 10:48	Temperature	17.76	C
GC-AP-MW-48H	4/21/2020 10:48	Turbidity	5.53	NTU
GC-AP-MW-48H	4/21/2020 10:53	Conductivity	336.31	uS/cm
GC-AP-MW-48H	4/21/2020 10:53	Depth to Water Detail	3.76	ft
GC-AP-MW-48H	4/21/2020 10:53	DO	0.21	mg/L
GC-AP-MW-48H	4/21/2020 10:53	Oxidation Reduction Potention	48.17	mv
GC-AP-MW-48H	4/21/2020 10:53	pH	6.44	pH
GC-AP-MW-48H	4/21/2020 10:53	Temperature	17.78	C
GC-AP-MW-48H	4/21/2020 10:53	Turbidity	4.39	NTU
GC-AP-MW-48H	4/21/2020 10:58	Conductivity	335.68	uS/cm
GC-AP-MW-48H	4/21/2020 10:58	Depth to Water Detail	3.76	ft
GC-AP-MW-48H	4/21/2020 10:58	DO	0.16	mg/L
GC-AP-MW-48H	4/21/2020 10:58	Oxidation Reduction Potention	44.43	mv
GC-AP-MW-48H	4/21/2020 10:58	pH	6.47	pH
GC-AP-MW-48H	4/21/2020 10:58	Temperature	17.83	C
GC-AP-MW-48H	4/21/2020 10:58	Turbidity	2.31	NTU
GC-AP-MW-48H	4/21/2020 11:03	Conductivity	335.16	uS/cm
GC-AP-MW-48H	4/21/2020 11:03	Depth to Water Detail	3.76	ft
GC-AP-MW-48H	4/21/2020 11:03	DO	0.15	mg/L
GC-AP-MW-48H	4/21/2020 11:03	Oxidation Reduction Potention	42.4	mv
GC-AP-MW-48H	4/21/2020 11:03	pH	6.5	pH
GC-AP-MW-48H	4/21/2020 11:03	Temperature	17.83	C
GC-AP-MW-48H	4/21/2020 11:03	Turbidity	2.41	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-49H	4/21/2020 16:09	Conductivity	416.76	uS/cm
GC-AP-MW-49H	4/21/2020 16:09	Depth to Water Detail	6.4	ft
GC-AP-MW-49H	4/21/2020 16:09	DO	0.21	mg/L
GC-AP-MW-49H	4/21/2020 16:09	Oxidation Reduction Potention	34.97	mv
GC-AP-MW-49H	4/21/2020 16:09	pH	6.32	pH
GC-AP-MW-49H	4/21/2020 16:09	Temperature	19.05	C
GC-AP-MW-49H	4/21/2020 16:09	Turbidity	81.1	NTU
GC-AP-MW-49H	4/21/2020 16:14	Conductivity	400.99	uS/cm
GC-AP-MW-49H	4/21/2020 16:14	Depth to Water Detail	6.4	ft
GC-AP-MW-49H	4/21/2020 16:14	DO	0.18	mg/L
GC-AP-MW-49H	4/21/2020 16:14	Oxidation Reduction Potention	37.72	mv
GC-AP-MW-49H	4/21/2020 16:14	pH	6.28	pH
GC-AP-MW-49H	4/21/2020 16:14	Temperature	18.99	C
GC-AP-MW-49H	4/21/2020 16:14	Turbidity	96.5	NTU
GC-AP-MW-49H	4/21/2020 16:19	Conductivity	385.14	uS/cm
GC-AP-MW-49H	4/21/2020 16:19	Depth to Water Detail	6.4	ft
GC-AP-MW-49H	4/21/2020 16:19	DO	0.17	mg/L
GC-AP-MW-49H	4/21/2020 16:19	Oxidation Reduction Potention	40.88	mv
GC-AP-MW-49H	4/21/2020 16:19	pH	6.25	pH
GC-AP-MW-49H	4/21/2020 16:19	Temperature	19.02	C
GC-AP-MW-49H	4/21/2020 16:19	Turbidity	52.5	NTU
GC-AP-MW-49H	4/21/2020 16:24	Conductivity	375.73	uS/cm
GC-AP-MW-49H	4/21/2020 16:24	Depth to Water Detail	6.4	ft
GC-AP-MW-49H	4/21/2020 16:24	DO	0.17	mg/L
GC-AP-MW-49H	4/21/2020 16:24	Oxidation Reduction Potention	40.93	mv
GC-AP-MW-49H	4/21/2020 16:24	pH	6.27	pH
GC-AP-MW-49H	4/21/2020 16:24	Temperature	18.97	C
GC-AP-MW-49H	4/21/2020 16:24	Turbidity	7.84	NTU
GC-AP-MW-49H	4/21/2020 16:29	Conductivity	370.08	uS/cm
GC-AP-MW-49H	4/21/2020 16:29	Depth to Water Detail	6.4	ft
GC-AP-MW-49H	4/21/2020 16:29	DO	0.17	mg/L
GC-AP-MW-49H	4/21/2020 16:29	Oxidation Reduction Potention	41.1	mv
GC-AP-MW-49H	4/21/2020 16:29	pH	6.28	pH
GC-AP-MW-49H	4/21/2020 16:29	Temperature	18.9	C
GC-AP-MW-49H	4/21/2020 16:29	Turbidity	5.68	NTU
GC-AP-MW-49H	4/21/2020 16:34	Conductivity	361.92	uS/cm
GC-AP-MW-49H	4/21/2020 16:34	Depth to Water Detail	6.4	ft
GC-AP-MW-49H	4/21/2020 16:34	DO	0.16	mg/L
GC-AP-MW-49H	4/21/2020 16:34	Oxidation Reduction Potention	42.26	mv
GC-AP-MW-49H	4/21/2020 16:34	pH	6.28	pH
GC-AP-MW-49H	4/21/2020 16:34	Temperature	18.91	C
GC-AP-MW-49H	4/21/2020 16:34	Turbidity	4.16	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-53H	4/20/2020 11:49	Conductivity	697.12	uS/cm
GC-AP-MW-53H	4/20/2020 11:49	Depth to Water Detail	6.63	ft
GC-AP-MW-53H	4/20/2020 11:49	DO	0.14	mg/L
GC-AP-MW-53H	4/20/2020 11:49	Oxidation Reduction Potention	-49.14	mv
GC-AP-MW-53H	4/20/2020 11:49	pH	6.12	pH
GC-AP-MW-53H	4/20/2020 11:49	Temperature	18.96	C
GC-AP-MW-53H	4/20/2020 11:49	Turbidity	19.2	NTU
GC-AP-MW-53H	4/20/2020 11:54	Conductivity	695.19	uS/cm
GC-AP-MW-53H	4/20/2020 11:54	Depth to Water Detail	6.67	ft
GC-AP-MW-53H	4/20/2020 11:54	DO	0.13	mg/L
GC-AP-MW-53H	4/20/2020 11:54	Oxidation Reduction Potention	-48.92	mv
GC-AP-MW-53H	4/20/2020 11:54	pH	6.14	pH
GC-AP-MW-53H	4/20/2020 11:54	Temperature	18.9	C
GC-AP-MW-53H	4/20/2020 11:54	Turbidity	13.1	NTU
GC-AP-MW-53H	4/20/2020 11:59	Conductivity	695	uS/cm
GC-AP-MW-53H	4/20/2020 11:59	Depth to Water Detail	6.72	ft
GC-AP-MW-53H	4/20/2020 11:59	DO	0.12	mg/L
GC-AP-MW-53H	4/20/2020 11:59	Oxidation Reduction Potention	-49.08	mv
GC-AP-MW-53H	4/20/2020 11:59	pH	6.16	pH
GC-AP-MW-53H	4/20/2020 11:59	Temperature	18.83	C
GC-AP-MW-53H	4/20/2020 11:59	Turbidity	9.02	NTU
GC-AP-MW-53H	4/20/2020 12:04	Conductivity	695.21	uS/cm
GC-AP-MW-53H	4/20/2020 12:04	Depth to Water Detail	6.74	ft
GC-AP-MW-53H	4/20/2020 12:04	DO	0.12	mg/L
GC-AP-MW-53H	4/20/2020 12:04	Oxidation Reduction Potention	-49.3	mv
GC-AP-MW-53H	4/20/2020 12:04	pH	6.17	pH
GC-AP-MW-53H	4/20/2020 12:04	Temperature	18.88	C
GC-AP-MW-53H	4/20/2020 12:04	Turbidity	5.45	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-54H	4/20/2020 12:48	Conductivity	755.1	uS/cm
GC-AP-MW-54H	4/20/2020 12:48	Depth to Water Detail	5.73	ft
GC-AP-MW-54H	4/20/2020 12:48	DO	0.18	mg/L
GC-AP-MW-54H	4/20/2020 12:48	Oxidation Reduction Potention	-84.95	mv
GC-AP-MW-54H	4/20/2020 12:48	pH	6.45	pH
GC-AP-MW-54H	4/20/2020 12:48	Temperature	18.06	C
GC-AP-MW-54H	4/20/2020 12:48	Turbidity	31.8	NTU
GC-AP-MW-54H	4/20/2020 12:53	Conductivity	748.27	uS/cm
GC-AP-MW-54H	4/20/2020 12:53	Depth to Water Detail	5.73	ft
GC-AP-MW-54H	4/20/2020 12:53	DO	0.16	mg/L
GC-AP-MW-54H	4/20/2020 12:53	Oxidation Reduction Potention	-87.33	mv
GC-AP-MW-54H	4/20/2020 12:53	pH	6.47	pH
GC-AP-MW-54H	4/20/2020 12:53	Temperature	18.11	C
GC-AP-MW-54H	4/20/2020 12:53	Turbidity	13.1	NTU
GC-AP-MW-54H	4/20/2020 12:58	Conductivity	747.99	uS/cm
GC-AP-MW-54H	4/20/2020 12:58	Depth to Water Detail	5.73	ft
GC-AP-MW-54H	4/20/2020 12:58	DO	0.16	mg/L
GC-AP-MW-54H	4/20/2020 12:58	Oxidation Reduction Potention	-90.75	mv
GC-AP-MW-54H	4/20/2020 12:58	pH	6.53	pH
GC-AP-MW-54H	4/20/2020 12:58	Temperature	18.11	C
GC-AP-MW-54H	4/20/2020 12:58	Turbidity	9.51	NTU
GC-AP-MW-54H	4/20/2020 13:03	Conductivity	746.9	uS/cm
GC-AP-MW-54H	4/20/2020 13:03	Depth to Water Detail	5.73	ft
GC-AP-MW-54H	4/20/2020 13:03	DO	0.15	mg/L
GC-AP-MW-54H	4/20/2020 13:03	Oxidation Reduction Potention	-94.69	mv
GC-AP-MW-54H	4/20/2020 13:03	pH	6.58	pH
GC-AP-MW-54H	4/20/2020 13:03	Temperature	18.17	C
GC-AP-MW-54H	4/20/2020 13:03	Turbidity	6.88	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-57H	4/20/2020 13:51	Conductivity	610.85	uS/cm
GC-AP-MW-57H	4/20/2020 13:51	Depth to Water Detail	3.39	ft
GC-AP-MW-57H	4/20/2020 13:51	DO	0.16	mg/L
GC-AP-MW-57H	4/20/2020 13:51	Oxidation Reduction Potention	-35.06	mv
GC-AP-MW-57H	4/20/2020 13:51	pH	6.08	pH
GC-AP-MW-57H	4/20/2020 13:51	Temperature	17.35	C
GC-AP-MW-57H	4/20/2020 13:51	Turbidity	78	NTU
GC-AP-MW-57H	4/20/2020 13:56	Conductivity	660.02	uS/cm
GC-AP-MW-57H	4/20/2020 13:56	Depth to Water Detail	3.39	ft
GC-AP-MW-57H	4/20/2020 13:56	DO	0.15	mg/L
GC-AP-MW-57H	4/20/2020 13:56	Oxidation Reduction Potention	-40.2	mv
GC-AP-MW-57H	4/20/2020 13:56	pH	6.09	pH
GC-AP-MW-57H	4/20/2020 13:56	Temperature	17.42	C
GC-AP-MW-57H	4/20/2020 13:56	Turbidity	29.6	NTU
GC-AP-MW-57H	4/20/2020 14:01	Conductivity	660.61	uS/cm
GC-AP-MW-57H	4/20/2020 14:01	Depth to Water Detail	3.39	ft
GC-AP-MW-57H	4/20/2020 14:01	DO	0.13	mg/L
GC-AP-MW-57H	4/20/2020 14:01	Oxidation Reduction Potention	-43.16	mv
GC-AP-MW-57H	4/20/2020 14:01	pH	6.11	pH
GC-AP-MW-57H	4/20/2020 14:01	Temperature	17.44	C
GC-AP-MW-57H	4/20/2020 14:01	Turbidity	10.21	NTU
GC-AP-MW-57H	4/20/2020 14:06	Conductivity	661.52	uS/cm
GC-AP-MW-57H	4/20/2020 14:06	Depth to Water Detail	3.39	ft
GC-AP-MW-57H	4/20/2020 14:06	DO	0.12	mg/L
GC-AP-MW-57H	4/20/2020 14:06	Oxidation Reduction Potention	-45.63	mv
GC-AP-MW-57H	4/20/2020 14:06	pH	6.12	pH
GC-AP-MW-57H	4/20/2020 14:06	Temperature	17.48	C
GC-AP-MW-57H	4/20/2020 14:06	Turbidity	2.97	NTU

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

Off-Site Wells Event 1 (Sewell)

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

Alabama Power

Sample Group : WMWGREAP_1279

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 : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

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

Alabama Power

July 01, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on May 29, 2020.
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, 2021

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2020.07.01 13:23:56 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2020.07.02 08:00:32 -05'00'

NELAP ACCREDITED TNI LABORATORY

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.

Alabama Power Lab & Field SERVICES

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

Case Narrative

Alabama Power

Metals ICP

Greene County Ash Pond

WMWGREAP_1279

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA09527	674069	WMWGREAP_1279
BA09528	674069	WMWGREAP_1279
BA09529	674069	WMWGREAP_1279
BA09530	674069	WMWGREAP_1279
BA09531	674069	WMWGREAP_1279
BA09532	674069	WMWGREAP_1279
BA09533	674069	WMWGREAP_1279

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 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.
- 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 sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BA09531	Calcium	10.15

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

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

Case Narrative

Alabama Power

Metals ICPMS

Greene County Ash Pond

WMWGREAP_1279

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA09527	674147	WMWGREAP_1279
BA09528	674147	WMWGREAP_1279
BA09529	674147	WMWGREAP_1279
BA09530	674147	WMWGREAP_1279
BA09531	674147	WMWGREAP_1279
BA09532	674147	WMWGREAP_1279
BA09533	674147	WMWGREAP_1279

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.

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. All samples were analyzed without a dilution factor.

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

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

Case Narrative

Alabama Power

Mercury

Greene County Ash Pond

WMWGREAP_1279

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA09527	674130	WMWGREAP_1279
BA09528	674130	WMWGREAP_1279
BA09529	674130	WMWGREAP_1279
BA09530	674130	WMWGREAP_1279
BA09531	674130	WMWGREAP_1279
BA09532	674130	WMWGREAP_1279
BA09533	674130	WMWGREAP_1279

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 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 factor.

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

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

Case Narrative

Alabama Power

TDS

Greene County Ash Pond

WMWGREAP_1279

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA09527	674112	WMWGREAP_1279
BA09528	674112	WMWGREAP_1279
BA09529	674112	WMWGREAP_1279
BA09530	674112	WMWGREAP_1279
BA09531	674112	WMWGREAP_1279
BA09532	674112	WMWGREAP_1279
BA09533	674112	WMWGREAP_1279

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- 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:
  - BA09527
  - BA09533

Case Narrative

Anions

Greene County Ash Pond

WMWGREAP_1279

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA09527	674200, 674201, & 674202	WMWGREAP_1279
BA09528	674200, 674201, & 674202	WMWGREAP_1279
BA09529	674200, 674201, & 674202	WMWGREAP_1279
BA09530	674200, 674201, & 674202	WMWGREAP_1279
BA09531	674200, 674201, & 674202	WMWGREAP_1279
BA09532	674200, 674201, & 674202	WMWGREAP_1279
BA09533	674200, 674201, & 674202	WMWGREAP_1279

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. 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:

Sample ID	Analyte	Dilution Factor
BA09528	Sulfate	5
BA09529	Sulfate	5
BA09530	Sulfate	5
BA09531	Sulfate	16

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

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank

Location Code: WMWGREAPEB
Collected: 5/28/20 08:00
Customer ID:
Submittal Date: 5/29/20 07:30

Laboratory ID Number: BA09527

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	6/1/20 09:21	6/1/20 13:48		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	6/1/20 09:21	6/1/20 13:48		1.015	0.121	mg/L	0.1	0.5	J
* Lithium, Total	6/1/20 09:21	6/1/20 13:48		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	5/29/20 08:57	6/1/20 16:21		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	6/2/20 09:42	6/2/20 12:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	6/1/20 13:26	6/3/20 14:58		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	6/2/20 09:37	6/2/20 09:37		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	6/2/20 10:44	6/2/20 10:44		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	6/2/20 12:15	6/2/20 12:15		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 5/28/20 08:00
Customer ID:
Delivery Date: 5/29/20 07:30

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: BA09527

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Calcium, Total	mg/L	0.0283	0.1518	5.00	5.16	5.17	5.39	4.25 to 5.75	103	70 to 130	0.194	20
BA09533	Beryllium, Total	mg/L	0.0000258	0.00088	0.10	0.0970	0.0999	0.1000	0.085 to 0.115	97.0	70 to 130	2.95	20
BA09533	Arsenic, Total	mg/L	0.0000180	0.0001474	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.93	20
BA09533	Lithium, Total	mg/L	0.0000828	0.0154	0.20	0.197	0.198	0.207	0.17 to 0.23	98.5	70 to 130	0.506	20
BA09533	Selenium, Total	mg/L	0.0000578	0.00066	0.10	0.101	0.101	0.100	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Cadmium, Total	mg/L	-0.0000126	0.0001474	0.10	0.0988	0.0990	0.0999	0.085 to 0.115	98.8	70 to 130	0.202	20
BA09533	Cobalt, Total	mg/L	-0.00000583	0.0001474	0.10	0.101	0.101	0.104	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Mercury, Total by CVAA	mg/L	0.0000525	0.0005	0.004	0.00405	0.00405	0.00403	0.0034 to 0.0046	101	70 to 130	0.00	20
BA09533	Molybdenum, Total	mg/L	0.0000157	0.0001474	0.10	0.0948	0.0973	0.0957	0.085 to 0.115	94.8	70 to 130	2.60	20
BA09533	Boron, Total	mg/L	0.00636	0.0650254	1.00	1.01	1.02	1.06	0.85 to 1.15	101	70 to 130	0.985	20
BA09533	Chromium, Total	mg/L	0.0000901	0.00044	0.10	0.0996	0.100	0.103	0.085 to 0.115	99.6	70 to 130	0.401	20
BA09533	Lead, Total	mg/L	0.00000599	0.0001474	0.10	0.0980	0.0997	0.0993	0.085 to 0.115	98.0	70 to 130	1.72	20
BA09533	Thallium, Total	mg/L	0.00000782	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA09533	Barium, Total	mg/L	-0.0000210	0.0002	0.10	0.0944	0.0934	0.0948	0.085 to 0.115	94.4	70 to 130	1.06	20
BA09533	Antimony, Total	mg/L	0.000124	0.00066	0.10	0.0912	0.0910	0.0903	0.085 to 0.115	91.2	70 to 130	0.220	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 5/28/20 08:00
Customer ID:
Delivery Date: 5/29/20 07:30

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: BA09527

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09529	Solids, Dissolved	mg/L	0.0000	25			245	56.0	40 to 60			0.204	5
BA09533	Chloride	mg/L	0.00139	0.50	10.0	9.97	0.169	10.7	9 to 11	99.7	80 to 120	0.00	20
BA09533	Sulfate	mg/L	-0.427	0.50	20.0	18.8	-0.415	19.9	18 to 22	94.0	80 to 120	0.00	20
BA09533	Fluoride	mg/L	0.0344	0.05	2.50	2.46	0.0297	2.65	2.25 to 2.75	98.4	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP
Collected: 5/28/20 09:50
Customer ID:
Submittal Date: 5/29/20 07:30

Laboratory ID Number: BA09528

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	6/1/20 09:21	6/1/20 13:51		1.015	0.343	mg/L	0.03	0.1	
* Calcium, Total	6/1/20 09:21	6/1/20 13:51		1.015	40.1	mg/L	0.1	0.5	
* Lithium, Total	6/1/20 09:21	6/1/20 13:51		1.015	0.0979	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/29/20 08:57	6/1/20 16:24		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	5/29/20 08:57	6/1/20 16:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	5/29/20 08:57	6/1/20 16:24		1.015	0.0701	mg/L	0.002	0.01	
* Beryllium, Total	5/29/20 08:57	6/1/20 16:24		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	5/29/20 08:57	6/1/20 16:24		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	5/29/20 08:57	6/1/20 16:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	5/29/20 08:57	6/1/20 16:24		1.015	0.00801	mg/L	0.002	0.005	
* Lead, Total	5/29/20 08:57	6/1/20 16:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	5/29/20 08:57	6/1/20 16:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	5/29/20 08:57	6/1/20 16:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	5/29/20 08:57	6/1/20 16:24		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	6/2/20 09:42	6/2/20 12:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	6/1/20 13:26	6/3/20 14:58		1	242	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	6/2/20 09:38	6/2/20 09:38		1	13.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	6/2/20 10:45	6/2/20 10:45		1	0.138	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	6/2/20 12:17	6/2/20 12:17		5	94.7	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	5/28/20 09:45	5/28/20 09:45			419.94	uS/cm			FA
pH	5/28/20 09:45	5/28/20 09:45			6.42	SU			FA
Temperature	5/28/20 09:45	5/28/20 09:45			18.29	C			FA
Turbidity	5/28/20 09:45	5/28/20 09:45			8.86	NTU			FA

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

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 5/28/20 09:50
Customer ID:
Delivery Date: 5/29/20 07:30

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BA09528

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Calcium, Total	mg/L	0.0283	0.1518	5.00	5.16	5.17	5.39	4.25 to 5.75	103	70 to 130	0.194	20
BA09533	Arsenic, Total	mg/L	0.0000180	0.0001474	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.93	20
BA09533	Lithium, Total	mg/L	0.0000828	0.0154	0.20	0.197	0.198	0.207	0.17 to 0.23	98.5	70 to 130	0.506	20
BA09533	Selenium, Total	mg/L	0.0000578	0.00066	0.10	0.101	0.101	0.100	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Lead, Total	mg/L	0.00000599	0.0001474	0.10	0.0980	0.0997	0.0993	0.085 to 0.115	98.0	70 to 130	1.72	20
BA09533	Thallium, Total	mg/L	0.00000782	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA09533	Beryllium, Total	mg/L	0.0000258	0.00088	0.10	0.0970	0.0999	0.1000	0.085 to 0.115	97.0	70 to 130	2.95	20
BA09533	Boron, Total	mg/L	0.00636	0.0650254	1.00	1.01	1.02	1.06	0.85 to 1.15	101	70 to 130	0.985	20
BA09533	Chromium, Total	mg/L	0.0000901	0.00044	0.10	0.0996	0.100	0.103	0.085 to 0.115	99.6	70 to 130	0.401	20
BA09533	Cadmium, Total	mg/L	-0.0000126	0.0001474	0.10	0.0988	0.0990	0.0999	0.085 to 0.115	98.8	70 to 130	0.202	20
BA09533	Cobalt, Total	mg/L	-0.00000583	0.0001474	0.10	0.101	0.101	0.104	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Mercury, Total by CVAA	mg/L	0.0000525	0.0005	0.004	0.00405	0.00405	0.00403	0.0034 to 0.0046	101	70 to 130	0.00	20
BA09533	Molybdenum, Total	mg/L	0.0000157	0.0001474	0.10	0.0948	0.0973	0.0957	0.085 to 0.115	94.8	70 to 130	2.60	20
BA09533	Barium, Total	mg/L	-0.0000210	0.0002	0.10	0.0944	0.0934	0.0948	0.085 to 0.115	94.4	70 to 130	1.06	20
BA09533	Antimony, Total	mg/L	0.000124	0.00066	0.10	0.0912	0.0910	0.0903	0.085 to 0.115	91.2	70 to 130	0.220	20

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 5/28/20 09:50
Customer ID:
Delivery Date: 5/29/20 07:30

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BA09528

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09529	Solids, Dissolved	mg/L	0.0000	25			245	56.0	40 to 60			0.204	5
BA09533	Fluoride	mg/L	0.0344	0.05	2.50	2.46	0.0297	2.65	2.25 to 2.75	98.4	80 to 120	0.00	20
BA09533	Chloride	mg/L	0.00139	0.50	10.0	9.97	0.169	10.7	9 to 11	99.7	80 to 120	0.00	20
BA09533	Sulfate	mg/L	-0.427	0.50	20.0	18.8	-0.415	19.9	18 to 22	94.0	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-50HO DUP

Location Code: WMWGREAP
Collected: 5/28/20 09:50
Customer ID:
Submittal Date: 5/29/20 07:30

Laboratory ID Number: BA09529

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	6/1/20 09:21	6/1/20 13:54		1.015	0.340	mg/L	0.03	0.1	
* Calcium, Total	6/1/20 09:21	6/1/20 13:54		1.015	40.2	mg/L	0.1	0.5	
* Lithium, Total	6/1/20 09:21	6/1/20 13:54		1.015	0.0983	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/29/20 08:57	6/1/20 16:26		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	5/29/20 08:57	6/1/20 16:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	5/29/20 08:57	6/1/20 16:26		1.015	0.0688	mg/L	0.002	0.01	
* Beryllium, Total	5/29/20 08:57	6/1/20 16:26		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	5/29/20 08:57	6/1/20 16:26		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	5/29/20 08:57	6/1/20 16:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	5/29/20 08:57	6/1/20 16:26		1.015	0.00788	mg/L	0.002	0.005	
* Lead, Total	5/29/20 08:57	6/1/20 16:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	5/29/20 08:57	6/1/20 16:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	5/29/20 08:57	6/1/20 16:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	5/29/20 08:57	6/1/20 16:26		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	6/2/20 09:42	6/2/20 12:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	6/1/20 13:26	6/3/20 14:58		1	244	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	6/2/20 09:39	6/2/20 09:39		1	13.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	6/2/20 10:47	6/2/20 10:47		1	0.127	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	6/2/20 12:18	6/2/20 12:18		5	96.3	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	5/28/20 09:45	5/28/20 09:45			419.94	uS/cm			FA
pH	5/28/20 09:45	5/28/20 09:45			6.42	SU			FA
Temperature	5/28/20 09:45	5/28/20 09:45			18.29	C			FA
Turbidity	5/28/20 09:45	5/28/20 09:45			8.86	NTU			FA

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

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 5/28/20 09:50
Customer ID:
Delivery Date: 5/29/20 07:30

Description: Greene County Ash Pond - MW-50HO DUP

Laboratory ID Number: BA09529

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Beryllium, Total	mg/L	0.0000258	0.00088	0.10	0.0970	0.0999	0.1000	0.085 to 0.115	97.0	70 to 130	2.95	20
BA09533	Arsenic, Total	mg/L	0.0000180	0.0001474	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.93	20
BA09533	Lithium, Total	mg/L	0.0000828	0.0154	0.20	0.197	0.198	0.207	0.17 to 0.23	98.5	70 to 130	0.506	20
BA09533	Selenium, Total	mg/L	0.0000578	0.00066	0.10	0.101	0.101	0.100	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Mercury, Total by CVAA	mg/L	0.0000525	0.0005	0.004	0.00405	0.00405	0.00403	0.0034 to 0.0046	101	70 to 130	0.00	20
BA09533	Molybdenum, Total	mg/L	0.0000157	0.0001474	0.10	0.0948	0.0973	0.0957	0.085 to 0.115	94.8	70 to 130	2.60	20
BA09533	Cadmium, Total	mg/L	-0.0000126	0.0001474	0.10	0.0988	0.0990	0.0999	0.085 to 0.115	98.8	70 to 130	0.202	20
BA09533	Cobalt, Total	mg/L	-0.00000583	0.0001474	0.10	0.101	0.101	0.104	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Boron, Total	mg/L	0.00636	0.0650254	1.00	1.01	1.02	1.06	0.85 to 1.15	101	70 to 130	0.985	20
BA09533	Chromium, Total	mg/L	0.0000901	0.00044	0.10	0.0996	0.100	0.103	0.085 to 0.115	99.6	70 to 130	0.401	20
BA09533	Barium, Total	mg/L	-0.0000210	0.0002	0.10	0.0944	0.0934	0.0948	0.085 to 0.115	94.4	70 to 130	1.06	20
BA09533	Antimony, Total	mg/L	0.000124	0.00066	0.10	0.0912	0.0910	0.0903	0.085 to 0.115	91.2	70 to 130	0.220	20
BA09533	Lead, Total	mg/L	0.00000599	0.0001474	0.10	0.0980	0.0997	0.0993	0.085 to 0.115	98.0	70 to 130	1.72	20
BA09533	Thallium, Total	mg/L	0.00000782	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA09533	Calcium, Total	mg/L	0.0283	0.1518	5.00	5.16	5.17	5.39	4.25 to 5.75	103	70 to 130	0.194	20

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 5/28/20 09:50
Customer ID:
Delivery Date: 5/29/20 07:30

Description: Greene County Ash Pond - MW-50HO DUP

Laboratory ID Number: BA09529

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09529	Solids, Dissolved	mg/L	0.0000	25			245	56.0	40 to 60			0.204	5
BA09533	Fluoride	mg/L	0.0344	0.05	2.50	2.46	0.0297	2.65	2.25 to 2.75	98.4	80 to 120	0.00	20
BA09533	Chloride	mg/L	0.00139	0.50	10.0	9.97	0.169	10.7	9 to 11	99.7	80 to 120	0.00	20
BA09533	Sulfate	mg/L	-0.427	0.50	20.0	18.8	-0.415	19.9	18 to 22	94.0	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP
Collected: 5/28/20 11:15
Customer ID:
Submittal Date: 5/29/20 07:31

Laboratory ID Number: BA09530

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	6/1/20 09:21	6/1/20 13:57		1.015	0.143	mg/L	0.03	0.1	
* Calcium, Total	6/1/20 09:21	6/1/20 13:57		1.015	38.6	mg/L	0.1	0.5	
* Lithium, Total	6/1/20 09:21	6/1/20 13:57		1.015	0.0527	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	5/29/20 08:57	6/1/20 16:29		1.015	0.0267	mg/L	0.002	0.01	
* Beryllium, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	5/29/20 08:57	6/1/20 16:29		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	6/2/20 09:42	6/2/20 13:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	6/1/20 13:26	6/3/20 14:58		1	195	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	6/2/20 09:40	6/2/20 09:40		1	4.92	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	6/2/20 10:48	6/2/20 10:48		1	0.0647	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	6/2/20 12:19	6/2/20 12:19		5	81.5	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	5/28/20 11:13	5/28/20 11:13			336.75	uS/cm			FA
pH	5/28/20 11:13	5/28/20 11:13			6.99	SU			FA
Temperature	5/28/20 11:13	5/28/20 11:13			20.27	C			FA
Turbidity	5/28/20 11:13	5/28/20 11:13			9.83	NTU			FA

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

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 5/28/20 11:15
Customer ID:
Delivery Date: 5/29/20 07:31

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BA09530

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Calcium, Total	mg/L	0.0283	0.1518	5.00	5.16	5.17	5.39	4.25 to 5.75	103	70 to 130	0.194	20
BA09533	Beryllium, Total	mg/L	0.0000258	0.00088	0.10	0.0970	0.0999	0.1000	0.085 to 0.115	97.0	70 to 130	2.95	20
BA09533	Arsenic, Total	mg/L	0.0000180	0.0001474	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.93	20
BA09533	Lithium, Total	mg/L	0.0000828	0.0154	0.20	0.197	0.198	0.207	0.17 to 0.23	98.5	70 to 130	0.506	20
BA09533	Selenium, Total	mg/L	0.0000578	0.00066	0.10	0.101	0.101	0.100	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Boron, Total	mg/L	0.00636	0.0650254	1.00	1.01	1.02	1.06	0.85 to 1.15	101	70 to 130	0.985	20
BA09533	Chromium, Total	mg/L	0.0000901	0.00044	0.10	0.0996	0.100	0.103	0.085 to 0.115	99.6	70 to 130	0.401	20
BA09533	Cadmium, Total	mg/L	-0.0000126	0.0001474	0.10	0.0988	0.0990	0.0999	0.085 to 0.115	98.8	70 to 130	0.202	20
BA09533	Cobalt, Total	mg/L	-0.00000583	0.0001474	0.10	0.101	0.101	0.104	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Mercury, Total by CVAA	mg/L	0.0000525	0.0005	0.004	0.00405	0.00405	0.00403	0.0034 to 0.0046	101	70 to 130	0.00	20
BA09533	Molybdenum, Total	mg/L	0.0000157	0.0001474	0.10	0.0948	0.0973	0.0957	0.085 to 0.115	94.8	70 to 130	2.60	20
BA09533	Lead, Total	mg/L	0.00000599	0.0001474	0.10	0.0980	0.0997	0.0993	0.085 to 0.115	98.0	70 to 130	1.72	20
BA09533	Thallium, Total	mg/L	0.00000782	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA09533	Barium, Total	mg/L	-0.0000210	0.0002	0.10	0.0944	0.0934	0.0948	0.085 to 0.115	94.4	70 to 130	1.06	20
BA09533	Antimony, Total	mg/L	0.000124	0.00066	0.10	0.0912	0.0910	0.0903	0.085 to 0.115	91.2	70 to 130	0.220	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 5/28/20 11:15
Customer ID:
Delivery Date: 5/29/20 07:31

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BA09530

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Fluoride	mg/L	0.0344	0.05	2.50	2.46	0.0297	2.65	2.25 to 2.75	98.4	80 to 120	0.00	20
BA09533	Chloride	mg/L	0.00139	0.50	10.0	9.97	0.169	10.7	9 to 11	99.7	80 to 120	0.00	20
BA09533	Sulfate	mg/L	-0.427	0.50	20.0	18.8	-0.415	19.9	18 to 22	94.0	80 to 120	0.00	20
BA09529	Solids, Dissolved	mg/L	0.0000	25			245	56.0	40 to 60			0.204	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP
Collected: 5/28/20 13:20
Customer ID:
Submittal Date: 5/29/20 07:31

Laboratory ID Number: BA09531

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	6/1/20 09:21	6/1/20 14:00		1.015	0.208	mg/L	0.03	0.1	
* Calcium, Total	6/1/20 09:21	6/1/20 14:50		10.15	72.4	mg/L	1.015	5.075	
* Lithium, Total	6/1/20 09:21	6/1/20 14:00		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/29/20 08:57	6/1/20 16:31		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	5/29/20 08:57	6/1/20 16:31		1.015	0.00208	mg/L	0.001	0.005	J
* Barium, Total	5/29/20 08:57	6/1/20 16:31		1.015	0.127	mg/L	0.002	0.01	
* Beryllium, Total	5/29/20 08:57	6/1/20 16:31		1.015	0.000799	mg/L	0.0006	0.003	J
* Cadmium, Total	5/29/20 08:57	6/1/20 16:31		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	5/29/20 08:57	6/1/20 16:31		1.015	0.00515	mg/L	0.002	0.01	J
* Cobalt, Total	5/29/20 08:57	6/1/20 16:31		1.015	0.0445	mg/L	0.002	0.005	
* Lead, Total	5/29/20 08:57	6/1/20 16:31		1.015	0.00260	mg/L	0.001	0.005	J
* Molybdenum, Total	5/29/20 08:57	6/1/20 16:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	5/29/20 08:57	6/1/20 16:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	5/29/20 08:57	6/1/20 16:31		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	6/2/20 09:42	6/2/20 13:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	6/1/20 13:26	6/3/20 14:58		1	401	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	6/2/20 09:41	6/2/20 09:41		1	12.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	6/2/20 10:49	6/2/20 10:49		1	0.0914	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	6/2/20 12:20	6/2/20 12:20		16	198	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	5/28/20 13:15	5/28/20 13:15			598.08	uS/cm			FA
pH	5/28/20 13:15	5/28/20 13:15			5.99	SU			FA
Temperature	5/28/20 13:15	5/28/20 13:15			17.85	C			FA
Turbidity	5/28/20 13:15	5/28/20 13:15			9.91	NTU			FA

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

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 5/28/20 13:20
Customer ID:
Delivery Date: 5/29/20 07:31

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BA09531

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Calcium, Total	mg/L	0.0283	0.1518	5.00	5.16	5.17	5.39	4.25 to 5.75	103	70 to 130	0.194	20
BA09533	Beryllium, Total	mg/L	0.0000258	0.00088	0.10	0.0970	0.0999	0.1000	0.085 to 0.115	97.0	70 to 130	2.95	20
BA09533	Boron, Total	mg/L	0.00636	0.0650254	1.00	1.01	1.02	1.06	0.85 to 1.15	101	70 to 130	0.985	20
BA09533	Chromium, Total	mg/L	0.0000901	0.00044	0.10	0.0996	0.100	0.103	0.085 to 0.115	99.6	70 to 130	0.401	20
BA09533	Cadmium, Total	mg/L	-0.0000126	0.0001474	0.10	0.0988	0.0990	0.0999	0.085 to 0.115	98.8	70 to 130	0.202	20
BA09533	Cobalt, Total	mg/L	-0.00000583	0.0001474	0.10	0.101	0.101	0.104	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Arsenic, Total	mg/L	0.0000180	0.0001474	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.93	20
BA09533	Lithium, Total	mg/L	0.0000828	0.0154	0.20	0.197	0.198	0.207	0.17 to 0.23	98.5	70 to 130	0.506	20
BA09533	Selenium, Total	mg/L	0.0000578	0.00066	0.10	0.101	0.101	0.100	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Lead, Total	mg/L	0.00000599	0.0001474	0.10	0.0980	0.0997	0.0993	0.085 to 0.115	98.0	70 to 130	1.72	20
BA09533	Thallium, Total	mg/L	0.00000782	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA09533	Barium, Total	mg/L	-0.0000210	0.0002	0.10	0.0944	0.0934	0.0948	0.085 to 0.115	94.4	70 to 130	1.06	20
BA09533	Antimony, Total	mg/L	0.000124	0.00066	0.10	0.0912	0.0910	0.0903	0.085 to 0.115	91.2	70 to 130	0.220	20
BA09533	Mercury, Total by CVAA	mg/L	0.0000525	0.0005	0.004	0.00405	0.00405	0.00403	0.0034 to 0.0046	101	70 to 130	0.00	20
BA09533	Molybdenum, Total	mg/L	0.0000157	0.0001474	0.10	0.0948	0.0973	0.0957	0.085 to 0.115	94.8	70 to 130	2.60	20

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 5/28/20 13:20
Customer ID:
Delivery Date: 5/29/20 07:31

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BA09531

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09529	Solids, Dissolved	mg/L	0.0000	25			245	56.0	40 to 60			0.204	5
BA09533	Chloride	mg/L	0.00139	0.50	10.0	9.97	0.169	10.7	9 to 11	99.7	80 to 120	0.00	20
BA09533	Fluoride	mg/L	0.0344	0.05	2.50	2.46	0.0297	2.65	2.25 to 2.75	98.4	80 to 120	0.00	20
BA09533	Sulfate	mg/L	-0.427	0.50	20.0	18.8	-0.415	19.9	18 to 22	94.0	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP
Collected: 5/28/20 15:00
Customer ID:
Submittal Date: 5/29/20 07:31

Laboratory ID Number: BA09532

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	6/1/20 09:21	6/1/20 14:03		1.015	0.0435	mg/L	0.03	0.1	J
* Calcium, Total	6/1/20 09:21	6/1/20 14:03		1.015	2.61	mg/L	0.1	0.5	
* Lithium, Total	6/1/20 09:21	6/1/20 14:03		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	5/29/20 08:57	6/1/20 16:34		1.015	0.0389	mg/L	0.002	0.01	
* Beryllium, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	5/29/20 08:57	6/1/20 16:34		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	6/2/20 09:42	6/2/20 13:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	6/1/20 13:26	6/3/20 14:58		1	56.7	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	6/2/20 09:43	6/2/20 09:43		1	6.88	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	6/2/20 10:50	6/2/20 10:50		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	6/2/20 12:21	6/2/20 12:21		1	10.3	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	5/28/20 14:53	5/28/20 14:53			96.97	uS/cm			FA
pH	5/28/20 14:53	5/28/20 14:53			4.47	SU			FA
Temperature	5/28/20 14:53	5/28/20 14:53			19.08	C			FA
Turbidity	5/28/20 14:53	5/28/20 14:53			9.92	NTU			FA

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

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 5/28/20 15:00
Customer ID:
Delivery Date: 5/29/20 07:31

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BA09532

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Calcium, Total	mg/L	0.0283	0.1518	5.00	5.16	5.17	5.39	4.25 to 5.75	103	70 to 130	0.194	20
BA09533	Beryllium, Total	mg/L	0.0000258	0.00088	0.10	0.0970	0.0999	0.1000	0.085 to 0.115	97.0	70 to 130	2.95	20
BA09533	Boron, Total	mg/L	0.00636	0.0650254	1.00	1.01	1.02	1.06	0.85 to 1.15	101	70 to 130	0.985	20
BA09533	Chromium, Total	mg/L	0.0000901	0.00044	0.10	0.0996	0.100	0.103	0.085 to 0.115	99.6	70 to 130	0.401	20
BA09533	Arsenic, Total	mg/L	0.0000180	0.0001474	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.93	20
BA09533	Lithium, Total	mg/L	0.0000828	0.0154	0.20	0.197	0.198	0.207	0.17 to 0.23	98.5	70 to 130	0.506	20
BA09533	Selenium, Total	mg/L	0.0000578	0.00066	0.10	0.101	0.101	0.100	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Mercury, Total by CVAA	mg/L	0.0000525	0.0005	0.004	0.00405	0.00405	0.00403	0.0034 to 0.0046	101	70 to 130	0.00	20
BA09533	Molybdenum, Total	mg/L	0.0000157	0.0001474	0.10	0.0948	0.0973	0.0957	0.085 to 0.115	94.8	70 to 130	2.60	20
BA09533	Cadmium, Total	mg/L	-0.0000126	0.0001474	0.10	0.0988	0.0990	0.0999	0.085 to 0.115	98.8	70 to 130	0.202	20
BA09533	Cobalt, Total	mg/L	-0.00000583	0.0001474	0.10	0.101	0.101	0.104	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Lead, Total	mg/L	0.00000599	0.0001474	0.10	0.0980	0.0997	0.0993	0.085 to 0.115	98.0	70 to 130	1.72	20
BA09533	Thallium, Total	mg/L	0.00000782	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA09533	Barium, Total	mg/L	-0.0000210	0.0002	0.10	0.0944	0.0934	0.0948	0.085 to 0.115	94.4	70 to 130	1.06	20
BA09533	Antimony, Total	mg/L	0.000124	0.00066	0.10	0.0912	0.0910	0.0903	0.085 to 0.115	91.2	70 to 130	0.220	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 5/28/20 15:00
Customer ID:
Delivery Date: 5/29/20 07:31

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BA09532

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Chloride	mg/L	0.00139	0.50	10.0	9.97	0.169	10.7	9 to 11	99.7	80 to 120	0.00	20
BA09533	Fluoride	mg/L	0.0344	0.05	2.50	2.46	0.0297	2.65	2.25 to 2.75	98.4	80 to 120	0.00	20
BA09533	Sulfate	mg/L	-0.427	0.50	20.0	18.8	-0.415	19.9	18 to 22	94.0	80 to 120	0.00	20
BA09529	Solids, Dissolved	mg/L	0.0000	25			245	56.0	40 to 60			0.204	5

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 5/28/20 15:15
Customer ID:
Submittal Date: 5/29/20 07:31

Laboratory ID Number: BA09533

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	6/1/20 09:21	6/1/20 14:06		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	6/1/20 09:21	6/1/20 14:06		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	6/1/20 09:21	6/1/20 14:06		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	5/29/20 08:57	6/1/20 16:37		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	6/2/20 09:42	6/2/20 13:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	6/1/20 13:26	6/3/20 14:58		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	6/2/20 09:44	6/2/20 09:44		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	6/2/20 10:51	6/2/20 10:51		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	6/2/20 12:23	6/2/20 12:23		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 7/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 5/28/20 15:15
Customer ID:
Delivery Date: 5/29/20 07:31

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA09533

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Calcium, Total	mg/L	0.0283	0.1518	5.00	5.16	5.17	5.39	4.25 to 5.75	103	70 to 130	0.194	20
BA09533	Beryllium, Total	mg/L	0.0000258	0.00088	0.10	0.0970	0.0999	0.1000	0.085 to 0.115	97.0	70 to 130	2.95	20
BA09533	Mercury, Total by CVAA	mg/L	0.0000525	0.0005	0.004	0.00405	0.00405	0.00403	0.0034 to 0.0046	101	70 to 130	0.00	20
BA09533	Molybdenum, Total	mg/L	0.0000157	0.0001474	0.10	0.0948	0.0973	0.0957	0.085 to 0.115	94.8	70 to 130	2.60	20
BA09533	Arsenic, Total	mg/L	0.0000180	0.0001474	0.10	0.101	0.104	0.102	0.085 to 0.115	101	70 to 130	2.93	20
BA09533	Lithium, Total	mg/L	0.0000828	0.0154	0.20	0.197	0.198	0.207	0.17 to 0.23	98.5	70 to 130	0.506	20
BA09533	Selenium, Total	mg/L	0.0000578	0.00066	0.10	0.101	0.101	0.100	0.085 to 0.115	101	70 to 130	0.00	20
BA09533	Lead, Total	mg/L	0.00000599	0.0001474	0.10	0.0980	0.0997	0.0993	0.085 to 0.115	98.0	70 to 130	1.72	20
BA09533	Thallium, Total	mg/L	0.00000782	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA09533	Boron, Total	mg/L	0.00636	0.0650254	1.00	1.01	1.02	1.06	0.85 to 1.15	101	70 to 130	0.985	20
BA09533	Chromium, Total	mg/L	0.0000901	0.00044	0.10	0.0996	0.100	0.103	0.085 to 0.115	99.6	70 to 130	0.401	20
BA09533	Barium, Total	mg/L	-0.0000210	0.0002	0.10	0.0944	0.0934	0.0948	0.085 to 0.115	94.4	70 to 130	1.06	20
BA09533	Antimony, Total	mg/L	0.000124	0.00066	0.10	0.0912	0.0910	0.0903	0.085 to 0.115	91.2	70 to 130	0.220	20
BA09533	Cadmium, Total	mg/L	-0.0000126	0.0001474	0.10	0.0988	0.0990	0.0999	0.085 to 0.115	98.8	70 to 130	0.202	20
BA09533	Cobalt, Total	mg/L	-0.00000583	0.0001474	0.10	0.101	0.101	0.104	0.085 to 0.115	101	70 to 130	0.00	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 5/28/20 15:15
Customer ID:
Delivery Date: 5/29/20 07:31

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA09533

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA09533	Fluoride	mg/L	0.0344	0.05	2.50	2.46	0.0297	2.65	2.25 to 2.75	98.4	80 to 120	0.00	20
BA09533	Sulfate	mg/L	-0.427	0.50	20.0	18.8	-0.415	19.9	18 to 22	94.0	80 to 120	0.00	20
BA09533	Chloride	mg/L	0.00139	0.50	10.0	9.97	0.169	10.7	9 to 11	99.7	80 to 120	0.00	20
BA09529	Solids, Dissolved	mg/L	0.0000	25			245	56.0	40 to 60			0.204	5

Comments:

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

Definitions

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.
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 ☐ Outside Lab

☑ Lab Complete

Lab ETA 05/28/2020 17:40

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: Relinquished to secure location at GSC building #8 shipping lab. 5/28/2020 1740 TJD

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
EB-1	05/28/2020	08:00	4	Equipment Blank		BA09527
MW-50HO	05/28/2020	09:50	4	Groundwater		BA09528
MW-50HO Dup	05/28/2020	09:50	4	Sample Duplicate		BA09529
MW-47HO	05/28/2020	11:15	4	Groundwater		BA09530
MW-59HO	05/28/2020	13:20	4	Groundwater		BA09531
MW-55HO	05/28/2020	15:00	4	Groundwater		BA09532
FB-1	05/28/2020	15:15	4	Field Blank		BA09533

Relinquished By	Received By	Date/Time
[signature]	Brooke Williams	05/29/2020 07:19

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1279

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	1.4 °C
Thermometer ID	2403-7026-4-2
pH Strip ID	7925-43756-2-2

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 05/28/2020 17:40

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	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	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: Radium MS/MSD @ MW-59HO. Relinquished to secure location at GSC building #8 shipping lab. 5/28/2020 1740 TJD

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
EB-1	05/28/2020	08:00	1	Equipment Blank		BA09534
MW-50HO	05/28/2020	09:50	1	Groundwater		BA09535
MW-50HO Dup	05/28/2020	09:50	1	Sample Duplicate		BA09536
MW-47HO	05/28/2020	11:15	1	Groundwater		BA09537
MW-59HO	05/28/2020	13:20	3	Groundwater		BA09538
MW-55HO	05/28/2020	15:00	1	Groundwater		BA09539
FB-1	05/28/2020	15:15	1	Field Blank		BA09540

Relinquished By	Received By	Date/Time
[signature]	Brooke Williams	05/29/2020 07:19

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1279

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	7925-43756-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-188867-1
Laboratory SDG: Plant Greene County Ash Pond 1279
Client Project/Site: CCR Plant Greene
Revision: 1

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Authorized for release by:
7/1/2020 9:27:37 AM

Cheyenne Whitmire, Project Manager II
(850)471-6222
cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-188867-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-188867-1

RAD

Methods 9315: Ra-226 Prep Batch 160-472556. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA09534 EB-1 (400-188867-1), BA09535 MW-50HO (400-188867-2), BA09536 MW-50HO DUP (400-188867-3), BA09537 MW-47HO (400-188867-4), BA09538 MW-59HO (400-188867-5), BA09538 MW-59HO (400-188867-5[MS]), BA09538 MW-59HO (400-188867-5[MSD]), BA09539 MW-55HO (400-188867-6), BA09540 FB-1 (400-188867-7), (LCS 160-472556/1-A) and (MB 160-472556/19-A)

Methods 9320: Ra-228 Prep Batch 160-472557. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA09534 EB-1 (400-188867-1), BA09535 MW-50HO (400-188867-2), BA09536 MW-50HO DUP (400-188867-3), BA09537 MW-47HO (400-188867-4), BA09538 MW-59HO (400-188867-5), BA09538 MW-59HO (400-188867-5[MS]), BA09538 MW-59HO (400-188867-5[MSD]), BA09539 MW-55HO (400-188867-6), BA09540 FB-1 (400-188867-7), (LCS 160-472557/1-A) and (MB 160-472557/19-A)

Method PrecSep_0: Radium 228 Prep Batch 160-472557. The following samples were prepared at a reduced aliquot: BA09538 MW-59HO (400-188867-5), BA09538 MW-59HO (400-188867-5[MS]) and BA09538 MW-59HO (400-188867-5[MSD]) Samples 400-188867-5, 5MS, and 5MSD were reduced due to yellow-orange discoloration and a cloudy appearance.

Method PrecSep_0: Radium 228 Prep Batch 160-472557. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for re-analysis: BA09534 EB-1 (400-188867-1), BA09535 MW-50HO (400-188867-2), BA09536 MW-50HO DUP (400-188867-3), BA09537 MW-47HO (400-188867-4), BA09539 MW-55HO (400-188867-6) and BA09540 FB-1 (400-188867-7).

Method PrecSep-21: Radium 226 Prep Batch 160-472556. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for re-analysis: BA09534 EB-1 (400-188867-1), BA09535 MW-50HO (400-188867-2), BA09536 MW-50HO DUP (400-188867-3), BA09537 MW-47HO (400-188867-4), BA09538 MW-59HO (400-188867-5), BA09538 MW-59HO (400-188867-5[MS]), BA09538 MW-59HO (400-188867-5[MSD]), BA09539 MW-55HO (400-188867-6) and BA09540 FB-1 (400-188867-7). Samples 400-188867-5, 5MS, and 5MSD were reduced due to yellow-orange discoloration and a cloudy appearance.

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-188867-1	BA09534 EB-1	Water	05/28/20 08:00	06/03/20 09:10	
400-188867-2	BA09535 MW-50HO	Water	05/28/20 09:50	06/03/20 09:10	
400-188867-3	BA09536 MW-50HO DUP	Water	05/28/20 09:50	06/03/20 09:10	
400-188867-4	BA09537 MW-47HO	Water	05/28/20 11:15	06/03/20 09:10	
400-188867-5	BA09538 MW-59HO	Water	05/28/20 13:20	06/03/20 09:10	
400-188867-6	BA09539 MW-55HO	Water	05/28/20 15:00	06/03/20 09:10	
400-188867-7	BA09540 FB-1	Water	05/28/20 15:15	06/03/20 09:10	

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Client Sample ID: BA09534 EB-1

Date Collected: 05/28/20 08:00
Date Received: 06/03/20 09:10

Lab Sample ID: 400-188867-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0301	U	0.0643	0.0644	1.00	0.120	pCi/L	06/05/20 13:30	06/29/20 07:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*06/05/20 13:30*	*06/29/20 07:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0278	U	0.271	0.271	1.00	0.493	pCi/L	06/05/20 13:58	06/24/20 12:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:54*	*1*
Y Carrier	*81.5*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00228	U	0.279	0.279	5.00	0.493	pCi/L		06/29/20 12:44	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Client Sample ID: BA09535 MW-50HO

Date Collected: 05/28/20 09:50
Date Received: 06/03/20 09:10

Lab Sample ID: 400-188867-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.180**		0.102	0.103	1.00	0.121	pCi/L	06/05/20 13:30	06/29/20 07:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*40 - 110*	*06/05/20 13:30*	*06/29/20 07:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.432	U	0.316	0.318	1.00	0.494	pCi/L	06/05/20 13:58	06/24/20 12:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:54*	*1*
Y Carrier	*82.6*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.612**		0.332	0.334	5.00	0.494	pCi/L		06/29/20 12:44	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Client Sample ID: BA09536 MW-50HO DUP

Lab Sample ID: 400-188867-3

Date Collected: 05/28/20 09:50
Matrix: Water
Date Received: 06/03/20 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0939	U	0.0782	0.0787	1.00	0.108	pCi/L	06/05/20 13:30	06/29/20 07:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*40 - 110*	*06/05/20 13:30*	*06/29/20 07:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.737**		0.362	0.369	1.00	0.535	pCi/L	06/05/20 13:58	06/24/20 12:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:54*	*1*
Y Carrier	*82.2*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.831**		0.370	0.377	5.00	0.535	pCi/L		06/29/20 12:44	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Client Sample ID: BA09537 MW-47HO

Lab Sample ID: 400-188867-4

Date Collected: 05/28/20 11:15
Matrix: Water
Date Received: 06/03/20 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0881	U	0.0789	0.0793	1.00	0.114	pCi/L	06/05/20 13:30	06/29/20 07:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*40 - 110*	*06/05/20 13:30*	*06/29/20 07:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0917	U	0.276	0.276	1.00	0.509	pCi/L	06/05/20 13:58	06/24/20 12:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:54*	*1*
Y Carrier	*84.9*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:54*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.00360	U	0.287	0.287	5.00	0.509	pCi/L		06/29/20 12:44	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Client Sample ID: BA09538 MW-59HO

Lab Sample ID: 400-188867-5

Date Collected: 05/28/20 13:20
Matrix: Water
Date Received: 06/03/20 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.947		0.268	0.281	1.00	0.191	pCi/L	06/05/20 13:30	06/29/20 07:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.4*		*40 - 110*	*06/05/20 13:30*	*06/29/20 07:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.32		0.561	0.574	1.00	0.798	pCi/L	06/05/20 13:58	06/24/20 12:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.4*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:55*	*1*
Y Carrier	*82.6*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:55*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.27		0.622	0.639	5.00	0.798	pCi/L		06/29/20 12:44	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Client Sample ID: BA09539 MW-55HO

Lab Sample ID: 400-188867-6

Date Collected: 05/28/20 15:00
Matrix: Water
Date Received: 06/03/20 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.119	U	0.104	0.104	1.00	0.155	pCi/L	06/05/20 13:30	06/29/20 07:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*40 - 110*	*06/05/20 13:30*	*06/29/20 07:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0651	U	0.273	0.274	1.00	0.499	pCi/L	06/05/20 13:58	06/24/20 12:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:58*	*1*
Y Carrier	*87.1*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:58*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0544	U	0.292	0.293	5.00	0.499	pCi/L		06/29/20 12:44	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Client Sample ID: BA09540 FB-1

Date Collected: 05/28/20 15:15
Date Received: 06/03/20 09:10

Lab Sample ID: 400-188867-7

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0169	U	0.0697	0.0697	1.00	0.138	pCi/L	06/05/20 13:30	06/29/20 07:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*40 - 110*	*06/05/20 13:30*	*06/29/20 07:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.152	U	0.216	0.216	1.00	0.362	pCi/L	06/05/20 13:58	06/24/20 12:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*108*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:58*	*1*
Y Carrier	*89.0*		*40 - 110*	*06/05/20 13:58*	*06/24/20 12:58*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.168	U	0.227	0.227	5.00	0.362	pCi/L		06/29/20 12:44	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Job ID: 400-188867-1
Project/Site: CCR Plant Greene
SDG: Plant Greene County Ash Pond 1279

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Client Sample ID: BA09534 EB-1

Lab Sample ID: 400-188867-1
Date Collected: 05/28/20 08:00
Matrix: Water
Date Received: 06/03/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			472556	06/05/20 13:30	MNH	TAL SL
Total/NA	Analysis	9315		1	474823	06/29/20 07:25	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			472557	06/05/20 13:58	MNH	TAL SL
Total/NA	Analysis	9320		1	474470	06/24/20 12:54	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	474832	06/29/20 12:44	SMP	TAL SL

Client Sample ID: BA09535 MW-50HO

Lab Sample ID: 400-188867-2
Date Collected: 05/28/20 09:50
Matrix: Water
Date Received: 06/03/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			472556	06/05/20 13:30	MNH	TAL SL
Total/NA	Analysis	9315		1	474823	06/29/20 07:26	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			472557	06/05/20 13:58	MNH	TAL SL
Total/NA	Analysis	9320		1	474470	06/24/20 12:54	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	474832	06/29/20 12:44	SMP	TAL SL

Client Sample ID: BA09536 MW-50HO DUP

Lab Sample ID: 400-188867-3
Date Collected: 05/28/20 09:50
Matrix: Water
Date Received: 06/03/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			472556	06/05/20 13:30	MNH	TAL SL
Total/NA	Analysis	9315		1	474823	06/29/20 07:26	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			472557	06/05/20 13:58	MNH	TAL SL
Total/NA	Analysis	9320		1	474470	06/24/20 12:54	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	474832	06/29/20 12:44	SMP	TAL SL

Client Sample ID: BA09537 MW-47HO

Lab Sample ID: 400-188867-4
Date Collected: 05/28/20 11:15
Matrix: Water
Date Received: 06/03/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			472556	06/05/20 13:30	MNH	TAL SL
Total/NA	Analysis	9315		1	474823	06/29/20 07:26	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			472557	06/05/20 13:58	MNH	TAL SL
Total/NA	Analysis	9320		1	474470	06/24/20 12:54	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	474832	06/29/20 12:44	SMP	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Client Sample ID: BA09538 MW-59HO

Lab Sample ID: 400-188867-5
Date Collected: 05/28/20 13:20
Matrix: Water
Date Received: 06/03/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			472556	06/05/20 13:30	MNH	TAL SL
Total/NA	Analysis	9315		1	474823	06/29/20 07:26	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			472557	06/05/20 13:58	MNH	TAL SL
Total/NA	Analysis	9320		1	474470	06/24/20 12:55	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	474832	06/29/20 12:44	SMP	TAL SL

Client Sample ID: BA09539 MW-55HO

Lab Sample ID: 400-188867-6
Date Collected: 05/28/20 15:00
Matrix: Water
Date Received: 06/03/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			472556	06/05/20 13:30	MNH	TAL SL
Total/NA	Analysis	9315		1	474823	06/29/20 07:25	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			472557	06/05/20 13:58	MNH	TAL SL
Total/NA	Analysis	9320		1	474335	06/24/20 12:58	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	474832	06/29/20 12:44	SMP	TAL SL

Client Sample ID: BA09540 FB-1

Lab Sample ID: 400-188867-7
Date Collected: 05/28/20 15:15
Matrix: Water
Date Received: 06/03/20 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			472556	06/05/20 13:30	MNH	TAL SL
Total/NA	Analysis	9315		1	474823	06/29/20 07:25	CJQ	TAL SL
Total/NA	Prep	PrecSep_0			472557	06/05/20 13:58	MNH	TAL SL
Total/NA	Analysis	9320		1	474335	06/24/20 12:58	AJD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	474832	06/29/20 12:44	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Rad

Prep Batch: 472556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-188867-1	BA09534 EB-1	Total/NA	Water	PrecSep-21	
400-188867-2	BA09535 MW-50HO	Total/NA	Water	PrecSep-21	
400-188867-3	BA09536 MW-50HO DUP	Total/NA	Water	PrecSep-21	
400-188867-4	BA09537 MW-47HO	Total/NA	Water	PrecSep-21	
400-188867-5	BA09538 MW-59HO	Total/NA	Water	PrecSep-21	
400-188867-6	BA09539 MW-55HO	Total/NA	Water	PrecSep-21	
400-188867-7	BA09540 FB-1	Total/NA	Water	PrecSep-21	
MB 160-472556/19-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-472556/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-188867-5 MS	BA09538 MW-59HO	Total/NA	Water	PrecSep-21	
400-188867-5 MSD	BA09538 MW-59HO	Total/NA	Water	PrecSep-21	

Prep Batch: 472557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-188867-1	BA09534 EB-1	Total/NA	Water	PrecSep_0	
400-188867-2	BA09535 MW-50HO	Total/NA	Water	PrecSep_0	
400-188867-3	BA09536 MW-50HO DUP	Total/NA	Water	PrecSep_0	
400-188867-4	BA09537 MW-47HO	Total/NA	Water	PrecSep_0	
400-188867-5	BA09538 MW-59HO	Total/NA	Water	PrecSep_0	
400-188867-6	BA09539 MW-55HO	Total/NA	Water	PrecSep_0	
400-188867-7	BA09540 FB-1	Total/NA	Water	PrecSep_0	
MB 160-472557/19-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-472557/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-188867-5 MS	BA09538 MW-59HO	Total/NA	Water	PrecSep_0	
400-188867-5 MSD	BA09538 MW-59HO	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-472556/19-A
Matrix: Water
Analysis Batch: 474823

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472556

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01148	U	0.0443	0.0443	1.00	0.113	pCi/L	06/05/20 13:30	06/29/20 09:25	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*40 - 110*	*06/05/20 13:30*	*06/29/20 09:25*	*1*

Lab Sample ID: LCS 160-472556/1-A
Matrix: Water
Analysis Batch: 474823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472556

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	12.84		1.38	1.00	0.119	pCi/L	85	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*100*		*40 - 110*

Lab Sample ID: 400-188867-5 MS
Matrix: Water
Analysis Batch: 474823

Client Sample ID: BA09538 MW-59HO
Prep Type: Total/NA
Prep Batch: 472556

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.947		22.7	20.57		2.19	1.00	0.177	pCi/L	87	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*102*		*40 - 110*

Lab Sample ID: 400-188867-5 MSD
Matrix: Water
Analysis Batch: 474823

Client Sample ID: BA09538 MW-59HO
Prep Type: Total/NA
Prep Batch: 472556

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.947		22.7	20.39		2.23	1.00	0.239	pCi/L	86	75 - 138	0.04	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*80.4*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-472557/19-A
Matrix: Water
Analysis Batch: 474335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472557

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.01013	U	0.224	0.224	1.00	0.408	pCi/L	06/05/20 13:58	06/24/20 12:58	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110	06/05/20 13:58	06/24/20 12:58	1
Y Carrier	87.9		40 - 110	06/05/20 13:58	06/24/20 12:58	1

Lab Sample ID: LCS 160-472557/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 474470 — **Prep Batch: 472557**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			11.6	11.30		1.35	1.00	0.593	pCi/L	97	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	85.6		40 - 110

Lab Sample ID: 400-188867-5 MS — **Client Sample ID: BA09538 MW-59HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 474470 — **Prep Batch: 472557**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	1.32		17.4	17.58		2.07	1.00	0.784	pCi/L	93	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	102		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: 400-188867-5 MSD — **Client Sample ID: BA09538 MW-59HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 474470 — **Prep Batch: 472557**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	1.32		17.4	17.97		2.22	1.00	1.03	pCi/L	95	45 - 150	0.09	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	80.4		40 - 110
Y Carrier	86.7		40 - 110

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

400-188867 COC

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1279	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA09534	5/28/20	08:00	G	Water						X	1	EB-1 (Equipment Blank)
BA09535	5/28/20	09:50	G	Water						X	1	MW-50HO
BA09536	5/28/20	09:50	G	Water						X	1	MW-50HO DUP (Sample Duplicate)
BA09537	5/28/20	11:15	G	Water						X	1	MW-47HO
BA09538	5/28/20	13:20	G	Water		X				X	3	MW-59HO
BA09539	5/28/20	15:00	G	Water						X	1	MW-55HO
BA09540	5/28/20	15:15	G	Water						X	1	FB-1 (Field Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Laura Midkiff	Date/Time: 6/02/2020 10:00	Water APC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 6-3-20 0910	Company: TAFEN

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: 20.0°C IR-8

Ver. 09/20/2016

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-188867-1
SDG Number: Plant Greene County Ash Pond 1279

Login Number: 188867
List Number: 1
Creator: Conrady, Hank W

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-188867-1
SDG Number: Plant Greene County Ash Pond 1279

Login Number: 188867
List Number: 2
Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis
List Creation: 06/04/20 02:03 PM

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

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	07-01-20
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-01-20
California	State	2510	06-30-20
Florida	NELAP	E81010	06-30-20
Georgia	State	E81010(FL)	06-30-20
Illinois	NELAP	004586	10-09-20
Iowa	State	367	08-01-20
Kansas	NELAP	E-10253	08-16-20
Kentucky (UST)	State	53	06-30-20
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-20
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-20
Massachusetts	State	M-FL094	06-30-20
Michigan	State	9912	06-30-20
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-20
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-20
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-20
Tennessee	State	TN02907	06-30-20
Texas	NELAP	T104704286	09-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	06-30-20

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-188867-1
SDG: Plant Greene County Ash Pond 1279

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-47HO	5/28/2020 10:38	Conductivity	341.25	uS/cm
GC-AP-MW-47HO	5/28/2020 10:38	DO	0.39	mg/L
GC-AP-MW-47HO	5/28/2020 10:38	Depth to Water Detail	9.86	ft
GC-AP-MW-47HO	5/28/2020 10:38	Oxidation Reduction Potention	68.72	mv
GC-AP-MW-47HO	5/28/2020 10:38	pH	6.96	pH
GC-AP-MW-47HO	5/28/2020 10:38	Temperature	20.18	C
GC-AP-MW-47HO	5/28/2020 10:38	Turbidity	56.3	NTU
GC-AP-MW-47HO	5/28/2020 10:43	Conductivity	339.55	uS/cm
GC-AP-MW-47HO	5/28/2020 10:43	DO	0.4	mg/L
GC-AP-MW-47HO	5/28/2020 10:43	Depth to Water Detail	9.86	ft
GC-AP-MW-47HO	5/28/2020 10:43	Oxidation Reduction Potention	69.05	mv
GC-AP-MW-47HO	5/28/2020 10:43	pH	7	pH
GC-AP-MW-47HO	5/28/2020 10:43	Temperature	20.22	C
GC-AP-MW-47HO	5/28/2020 10:43	Turbidity	35.6	NTU
GC-AP-MW-47HO	5/28/2020 10:48	Conductivity	337.49	uS/cm
GC-AP-MW-47HO	5/28/2020 10:48	DO	0.47	mg/L
GC-AP-MW-47HO	5/28/2020 10:48	Depth to Water Detail	9.86	ft
GC-AP-MW-47HO	5/28/2020 10:48	Oxidation Reduction Potention	70.05	mv
GC-AP-MW-47HO	5/28/2020 10:48	pH	7	pH
GC-AP-MW-47HO	5/28/2020 10:48	Temperature	20.28	C
GC-AP-MW-47HO	5/28/2020 10:48	Turbidity	24.7	NTU
GC-AP-MW-47HO	5/28/2020 10:53	Conductivity	337.54	uS/cm
GC-AP-MW-47HO	5/28/2020 10:53	DO	0.48	mg/L
GC-AP-MW-47HO	5/28/2020 10:53	Depth to Water Detail	9.86	ft
GC-AP-MW-47HO	5/28/2020 10:53	Oxidation Reduction Potention	70.7	mv
GC-AP-MW-47HO	5/28/2020 10:53	pH	7.01	pH
GC-AP-MW-47HO	5/28/2020 10:53	Temperature	20.34	C
GC-AP-MW-47HO	5/28/2020 10:53	Turbidity	22.7	NTU
GC-AP-MW-47HO	5/28/2020 10:58	Conductivity	339.75	uS/cm
GC-AP-MW-47HO	5/28/2020 10:58	DO	0.46	mg/L
GC-AP-MW-47HO	5/28/2020 10:58	Depth to Water Detail	9.86	ft
GC-AP-MW-47HO	5/28/2020 10:58	Oxidation Reduction Potention	80.94	mv
GC-AP-MW-47HO	5/28/2020 10:58	pH	6.85	pH
GC-AP-MW-47HO	5/28/2020 10:58	Temperature	20.38	C
GC-AP-MW-47HO	5/28/2020 10:58	Turbidity	16.5	NTU
GC-AP-MW-47HO	5/28/2020 11:03	Conductivity	336.8	uS/cm
GC-AP-MW-47HO	5/28/2020 11:03	DO	0.46	mg/L
GC-AP-MW-47HO	5/28/2020 11:03	Depth to Water Detail	9.86	ft
GC-AP-MW-47HO	5/28/2020 11:03	Oxidation Reduction Potention	74.74	mv
GC-AP-MW-47HO	5/28/2020 11:03	pH	6.97	pH
GC-AP-MW-47HO	5/28/2020 11:03	Temperature	20.25	C
GC-AP-MW-47HO	5/28/2020 11:03	Turbidity	13.7	NTU
GC-AP-MW-47HO	5/28/2020 11:08	Conductivity	337.42	uS/cm
GC-AP-MW-47HO	5/28/2020 11:08	DO	0.45	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-47HO	5/28/2020 11:08	Depth to Water Detail	9.86	ft
GC-AP-MW-47HO	5/28/2020 11:08	Oxidation Reduction Potention	74.14	mv
GC-AP-MW-47HO	5/28/2020 11:08	pH	6.97	pH
GC-AP-MW-47HO	5/28/2020 11:08	Temperature	20.28	C
GC-AP-MW-47HO	5/28/2020 11:08	Turbidity	12.07	NTU
GC-AP-MW-47HO	5/28/2020 11:13	Conductivity	336.75	uS/cm
GC-AP-MW-47HO	5/28/2020 11:13	DO	0.48	mg/L
GC-AP-MW-47HO	5/28/2020 11:13	Depth to Water Detail	9.86	ft
GC-AP-MW-47HO	5/28/2020 11:13	Oxidation Reduction Potention	73.94	mv
GC-AP-MW-47HO	5/28/2020 11:13	pH	6.99	pH
GC-AP-MW-47HO	5/28/2020 11:13	Temperature	20.27	C
GC-AP-MW-47HO	5/28/2020 11:13	Turbidity	9.83	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-50HO	5/28/2020 8:25	Conductivity	438.08	uS/cm
GC-AP-MW-50HO	5/28/2020 8:25	DO	0.25	mg/L
GC-AP-MW-50HO	5/28/2020 8:25	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 8:25	Oxidation Reduction Potention	72.17	mv
GC-AP-MW-50HO	5/28/2020 8:25	pH	6.41	pH
GC-AP-MW-50HO	5/28/2020 8:25	Temperature	18.2	C
GC-AP-MW-50HO	5/28/2020 8:25	Turbidity	117	NTU
GC-AP-MW-50HO	5/28/2020 8:30	Conductivity	433.02	uS/cm
GC-AP-MW-50HO	5/28/2020 8:30	DO	0.21	mg/L
GC-AP-MW-50HO	5/28/2020 8:30	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 8:30	Oxidation Reduction Potention	77.24	mv
GC-AP-MW-50HO	5/28/2020 8:30	pH	6.42	pH
GC-AP-MW-50HO	5/28/2020 8:30	Temperature	18.23	C
GC-AP-MW-50HO	5/28/2020 8:30	Turbidity	135	NTU
GC-AP-MW-50HO	5/28/2020 8:35	Conductivity	429.9	uS/cm
GC-AP-MW-50HO	5/28/2020 8:35	DO	0.19	mg/L
GC-AP-MW-50HO	5/28/2020 8:35	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 8:35	Oxidation Reduction Potention	79.88	mv
GC-AP-MW-50HO	5/28/2020 8:35	pH	6.43	pH
GC-AP-MW-50HO	5/28/2020 8:35	Temperature	18.23	C
GC-AP-MW-50HO	5/28/2020 8:35	Turbidity	109.4	NTU
GC-AP-MW-50HO	5/28/2020 8:40	Conductivity	427.74	uS/cm
GC-AP-MW-50HO	5/28/2020 8:40	DO	0.18	mg/L
GC-AP-MW-50HO	5/28/2020 8:40	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 8:40	Oxidation Reduction Potention	85.2	mv
GC-AP-MW-50HO	5/28/2020 8:40	pH	6.35	pH
GC-AP-MW-50HO	5/28/2020 8:40	Temperature	18.23	C
GC-AP-MW-50HO	5/28/2020 8:40	Turbidity	85.8	NTU
GC-AP-MW-50HO	5/28/2020 8:45	Conductivity	425.93	uS/cm
GC-AP-MW-50HO	5/28/2020 8:45	DO	0.17	mg/L
GC-AP-MW-50HO	5/28/2020 8:45	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 8:45	Oxidation Reduction Potention	81.99	mv
GC-AP-MW-50HO	5/28/2020 8:45	pH	6.39	pH
GC-AP-MW-50HO	5/28/2020 8:45	Temperature	18.28	C
GC-AP-MW-50HO	5/28/2020 8:45	Turbidity	56.8	NTU
GC-AP-MW-50HO	5/28/2020 8:50	Conductivity	425.27	uS/cm
GC-AP-MW-50HO	5/28/2020 8:50	DO	0.17	mg/L
GC-AP-MW-50HO	5/28/2020 8:50	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 8:50	Oxidation Reduction Potention	80.27	mv
GC-AP-MW-50HO	5/28/2020 8:50	pH	6.43	pH
GC-AP-MW-50HO	5/28/2020 8:50	Temperature	18.23	C
GC-AP-MW-50HO	5/28/2020 8:50	Turbidity	36.8	NTU
GC-AP-MW-50HO	5/28/2020 8:55	Conductivity	424.38	uS/cm
GC-AP-MW-50HO	5/28/2020 8:55	DO	0.16	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-50HO	5/28/2020 8:55	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 8:55	Oxidation Reduction Potention	80.13	mv
GC-AP-MW-50HO	5/28/2020 8:55	pH	6.44	pH
GC-AP-MW-50HO	5/28/2020 8:55	Temperature	18.26	C
GC-AP-MW-50HO	5/28/2020 8:55	Turbidity	33.9	NTU
GC-AP-MW-50HO	5/28/2020 9:00	Conductivity	423.66	uS/cm
GC-AP-MW-50HO	5/28/2020 9:00	DO	0.16	mg/L
GC-AP-MW-50HO	5/28/2020 9:00	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:00	Oxidation Reduction Potention	79.63	mv
GC-AP-MW-50HO	5/28/2020 9:00	pH	6.44	pH
GC-AP-MW-50HO	5/28/2020 9:00	Temperature	18.34	C
GC-AP-MW-50HO	5/28/2020 9:00	Turbidity	22.8	NTU
GC-AP-MW-50HO	5/28/2020 9:05	Conductivity	423	uS/cm
GC-AP-MW-50HO	5/28/2020 9:05	DO	0.16	mg/L
GC-AP-MW-50HO	5/28/2020 9:05	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:05	Oxidation Reduction Potention	85.93	mv
GC-AP-MW-50HO	5/28/2020 9:05	pH	6.33	pH
GC-AP-MW-50HO	5/28/2020 9:05	Temperature	18.31	C
GC-AP-MW-50HO	5/28/2020 9:05	Turbidity	19.7	NTU
GC-AP-MW-50HO	5/28/2020 9:10	Conductivity	422.5	uS/cm
GC-AP-MW-50HO	5/28/2020 9:10	DO	0.16	mg/L
GC-AP-MW-50HO	5/28/2020 9:10	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:10	Oxidation Reduction Potention	86.82	mv
GC-AP-MW-50HO	5/28/2020 9:10	pH	6.36	pH
GC-AP-MW-50HO	5/28/2020 9:10	Temperature	18.28	C
GC-AP-MW-50HO	5/28/2020 9:10	Turbidity	16.2	NTU
GC-AP-MW-50HO	5/28/2020 9:15	Conductivity	421.04	uS/cm
GC-AP-MW-50HO	5/28/2020 9:15	DO	0.16	mg/L
GC-AP-MW-50HO	5/28/2020 9:15	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:15	Oxidation Reduction Potention	84.59	mv
GC-AP-MW-50HO	5/28/2020 9:15	pH	6.42	pH
GC-AP-MW-50HO	5/28/2020 9:15	Temperature	18.21	C
GC-AP-MW-50HO	5/28/2020 9:15	Turbidity	13.9	NTU
GC-AP-MW-50HO	5/28/2020 9:20	Conductivity	421.08	uS/cm
GC-AP-MW-50HO	5/28/2020 9:20	DO	0.15	mg/L
GC-AP-MW-50HO	5/28/2020 9:20	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:20	Oxidation Reduction Potention	83.16	mv
GC-AP-MW-50HO	5/28/2020 9:20	pH	6.43	pH
GC-AP-MW-50HO	5/28/2020 9:20	Temperature	18.23	C
GC-AP-MW-50HO	5/28/2020 9:20	Turbidity	13	NTU
GC-AP-MW-50HO	5/28/2020 9:25	Conductivity	420.65	uS/cm
GC-AP-MW-50HO	5/28/2020 9:25	DO	0.15	mg/L
GC-AP-MW-50HO	5/28/2020 9:25	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:25	Oxidation Reduction Potention	81.38	mv

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-50HO	5/28/2020 9:25	pH	6.43	pH
GC-AP-MW-50HO	5/28/2020 9:25	Temperature	18.23	C
GC-AP-MW-50HO	5/28/2020 9:25	Turbidity	11.5	NTU
GC-AP-MW-50HO	5/28/2020 9:30	Conductivity	420.48	uS/cm
GC-AP-MW-50HO	5/28/2020 9:30	DO	0.15	mg/L
GC-AP-MW-50HO	5/28/2020 9:30	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:30	Oxidation Reduction Potention	80.26	mv
GC-AP-MW-50HO	5/28/2020 9:30	pH	6.44	pH
GC-AP-MW-50HO	5/28/2020 9:30	Temperature	18.24	C
GC-AP-MW-50HO	5/28/2020 9:30	Turbidity	11.8	NTU
GC-AP-MW-50HO	5/28/2020 9:35	Conductivity	420.46	uS/cm
GC-AP-MW-50HO	5/28/2020 9:35	DO	0.15	mg/L
GC-AP-MW-50HO	5/28/2020 9:35	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:35	Oxidation Reduction Potention	87.21	mv
GC-AP-MW-50HO	5/28/2020 9:35	pH	6.34	pH
GC-AP-MW-50HO	5/28/2020 9:35	Temperature	18.28	C
GC-AP-MW-50HO	5/28/2020 9:35	Turbidity	10.7	NTU
GC-AP-MW-50HO	5/28/2020 9:40	Conductivity	420.42	uS/cm
GC-AP-MW-50HO	5/28/2020 9:40	DO	0.15	mg/L
GC-AP-MW-50HO	5/28/2020 9:40	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:40	Oxidation Reduction Potention	82.02	mv
GC-AP-MW-50HO	5/28/2020 9:40	pH	6.39	pH
GC-AP-MW-50HO	5/28/2020 9:40	Temperature	18.32	C
GC-AP-MW-50HO	5/28/2020 9:40	Turbidity	10.45	NTU
GC-AP-MW-50HO	5/28/2020 9:45	Conductivity	419.94	uS/cm
GC-AP-MW-50HO	5/28/2020 9:45	DO	0.15	mg/L
GC-AP-MW-50HO	5/28/2020 9:45	Depth to Water Detail	6.96	ft
GC-AP-MW-50HO	5/28/2020 9:45	Oxidation Reduction Potention	78.88	mv
GC-AP-MW-50HO	5/28/2020 9:45	pH	6.42	pH
GC-AP-MW-50HO	5/28/2020 9:45	Temperature	18.29	C
GC-AP-MW-50HO	5/28/2020 9:45	Turbidity	8.86	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-55HO	5/28/2020 14:23	Conductivity	92.58	uS/cm
GC-AP-MW-55HO	5/28/2020 14:23	DO	5.28	mg/L
GC-AP-MW-55HO	5/28/2020 14:23	Depth to Water Detail	30.11	ft
GC-AP-MW-55HO	5/28/2020 14:23	Oxidation Reduction Potention	218.36	mv
GC-AP-MW-55HO	5/28/2020 14:23	pH	4.62	pH
GC-AP-MW-55HO	5/28/2020 14:23	Temperature	19.46	C
GC-AP-MW-55HO	5/28/2020 14:23	Turbidity	106	NTU
GC-AP-MW-55HO	5/28/2020 14:28	Conductivity	103.06	uS/cm
GC-AP-MW-55HO	5/28/2020 14:28	DO	5.01	mg/L
GC-AP-MW-55HO	5/28/2020 14:28	Depth to Water Detail	30.11	ft
GC-AP-MW-55HO	5/28/2020 14:28	Oxidation Reduction Potention	234.99	mv
GC-AP-MW-55HO	5/28/2020 14:28	pH	4.53	pH
GC-AP-MW-55HO	5/28/2020 14:28	Temperature	19.42	C
GC-AP-MW-55HO	5/28/2020 14:28	Turbidity	46.5	NTU
GC-AP-MW-55HO	5/28/2020 14:33	Conductivity	101.95	uS/cm
GC-AP-MW-55HO	5/28/2020 14:33	DO	5.04	mg/L
GC-AP-MW-55HO	5/28/2020 14:33	Depth to Water Detail	30.11	ft
GC-AP-MW-55HO	5/28/2020 14:33	Oxidation Reduction Potention	246.41	mv
GC-AP-MW-55HO	5/28/2020 14:33	pH	4.46	pH
GC-AP-MW-55HO	5/28/2020 14:33	Temperature	19.45	C
GC-AP-MW-55HO	5/28/2020 14:33	Turbidity	20.3	NTU
GC-AP-MW-55HO	5/28/2020 14:38	Conductivity	98.54	uS/cm
GC-AP-MW-55HO	5/28/2020 14:38	DO	5.16	mg/L
GC-AP-MW-55HO	5/28/2020 14:38	Depth to Water Detail	30.11	ft
GC-AP-MW-55HO	5/28/2020 14:38	Oxidation Reduction Potention	255.49	mv
GC-AP-MW-55HO	5/28/2020 14:38	pH	4.4	pH
GC-AP-MW-55HO	5/28/2020 14:38	Temperature	19.41	C
GC-AP-MW-55HO	5/28/2020 14:38	Turbidity	15.2	NTU
GC-AP-MW-55HO	5/28/2020 14:43	Conductivity	97.01	uS/cm
GC-AP-MW-55HO	5/28/2020 14:43	DO	5.1	mg/L
GC-AP-MW-55HO	5/28/2020 14:43	Depth to Water Detail	30.11	ft
GC-AP-MW-55HO	5/28/2020 14:43	Oxidation Reduction Potention	259.08	mv
GC-AP-MW-55HO	5/28/2020 14:43	pH	4.42	pH
GC-AP-MW-55HO	5/28/2020 14:43	Temperature	19.45	C
GC-AP-MW-55HO	5/28/2020 14:43	Turbidity	12.88	NTU
GC-AP-MW-55HO	5/28/2020 14:48	Conductivity	98.81	uS/cm
GC-AP-MW-55HO	5/28/2020 14:48	DO	5.14	mg/L
GC-AP-MW-55HO	5/28/2020 14:48	Depth to Water Detail	30.11	ft
GC-AP-MW-55HO	5/28/2020 14:48	Oxidation Reduction Potention	261.67	mv
GC-AP-MW-55HO	5/28/2020 14:48	pH	4.46	pH
GC-AP-MW-55HO	5/28/2020 14:48	Temperature	19.31	C
GC-AP-MW-55HO	5/28/2020 14:48	Turbidity	12.17	NTU
GC-AP-MW-55HO	5/28/2020 14:53	Conductivity	96.97	uS/cm
GC-AP-MW-55HO	5/28/2020 14:53	DO	5.13	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-55HO	5/28/2020 14:53	Depth to Water Detail	30.11	ft
GC-AP-MW-55HO	5/28/2020 14:53	Oxidation Reduction Potention	264	mv
GC-AP-MW-55HO	5/28/2020 14:53	pH	4.47	pH
GC-AP-MW-55HO	5/28/2020 14:53	Temperature	19.08	C
GC-AP-MW-55HO	5/28/2020 14:53	Turbidity	9.92	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-59HO	5/28/2020 11:56	Conductivity	585.57	uS/cm
GC-AP-MW-59HO	5/28/2020 11:56	DO	0.27	mg/L
GC-AP-MW-59HO	5/28/2020 11:56	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 11:56	Oxidation Reduction Potention	132.86	mv
GC-AP-MW-59HO	5/28/2020 11:56	pH	5.73	pH
GC-AP-MW-59HO	5/28/2020 11:56	Temperature	17.89	C
GC-AP-MW-59HO	5/28/2020 11:56	Turbidity	74.3	NTU
GC-AP-MW-59HO	5/28/2020 12:01	Conductivity	598.15	uS/cm
GC-AP-MW-59HO	5/28/2020 12:01	DO	0.23	mg/L
GC-AP-MW-59HO	5/28/2020 12:01	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:01	Oxidation Reduction Potention	94.84	mv
GC-AP-MW-59HO	5/28/2020 12:01	pH	5.75	pH
GC-AP-MW-59HO	5/28/2020 12:01	Temperature	17.96	C
GC-AP-MW-59HO	5/28/2020 12:01	Turbidity	96.5	NTU
GC-AP-MW-59HO	5/28/2020 12:06	Conductivity	597.89	uS/cm
GC-AP-MW-59HO	5/28/2020 12:06	DO	0.21	mg/L
GC-AP-MW-59HO	5/28/2020 12:06	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:06	Oxidation Reduction Potention	85.03	mv
GC-AP-MW-59HO	5/28/2020 12:06	pH	5.72	pH
GC-AP-MW-59HO	5/28/2020 12:06	Temperature	17.94	C
GC-AP-MW-59HO	5/28/2020 12:06	Turbidity	87.6	NTU
GC-AP-MW-59HO	5/28/2020 12:11	Conductivity	598.2	uS/cm
GC-AP-MW-59HO	5/28/2020 12:11	DO	0.2	mg/L
GC-AP-MW-59HO	5/28/2020 12:11	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:11	Oxidation Reduction Potention	83.94	mv
GC-AP-MW-59HO	5/28/2020 12:11	pH	5.73	pH
GC-AP-MW-59HO	5/28/2020 12:11	Temperature	17.93	C
GC-AP-MW-59HO	5/28/2020 12:11	Turbidity	80.2	NTU
GC-AP-MW-59HO	5/28/2020 12:16	Conductivity	599.65	uS/cm
GC-AP-MW-59HO	5/28/2020 12:16	DO	0.21	mg/L
GC-AP-MW-59HO	5/28/2020 12:16	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:16	Oxidation Reduction Potention	88.49	mv
GC-AP-MW-59HO	5/28/2020 12:16	pH	5.69	pH
GC-AP-MW-59HO	5/28/2020 12:16	Temperature	17.94	C
GC-AP-MW-59HO	5/28/2020 12:16	Turbidity	102.8	NTU
GC-AP-MW-59HO	5/28/2020 12:21	Conductivity	594.75	uS/cm
GC-AP-MW-59HO	5/28/2020 12:21	DO	0.2	mg/L
GC-AP-MW-59HO	5/28/2020 12:21	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:21	Oxidation Reduction Potention	91.51	mv
GC-AP-MW-59HO	5/28/2020 12:21	pH	5.67	pH
GC-AP-MW-59HO	5/28/2020 12:21	Temperature	17.96	C
GC-AP-MW-59HO	5/28/2020 12:21	Turbidity	76.5	NTU
GC-AP-MW-59HO	5/28/2020 12:26	Conductivity	596.5	uS/cm
GC-AP-MW-59HO	5/28/2020 12:26	DO	0.2	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-59HO	5/28/2020 12:26	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:26	Oxidation Reduction Potention	89.69	mv
GC-AP-MW-59HO	5/28/2020 12:26	pH	5.69	pH
GC-AP-MW-59HO	5/28/2020 12:26	Temperature	17.79	C
GC-AP-MW-59HO	5/28/2020 12:26	Turbidity	71.4	NTU
GC-AP-MW-59HO	5/28/2020 12:30	Conductivity	597.42	uS/cm
GC-AP-MW-59HO	5/28/2020 12:30	DO	0.23	mg/L
GC-AP-MW-59HO	5/28/2020 12:30	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:30	Oxidation Reduction Potention	86.79	mv
GC-AP-MW-59HO	5/28/2020 12:30	pH	5.76	pH
GC-AP-MW-59HO	5/28/2020 12:30	Temperature	17.59	C
GC-AP-MW-59HO	5/28/2020 12:30	Turbidity	65	NTU
GC-AP-MW-59HO	5/28/2020 12:35	Conductivity	598.37	uS/cm
GC-AP-MW-59HO	5/28/2020 12:35	DO	0.19	mg/L
GC-AP-MW-59HO	5/28/2020 12:35	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:35	Oxidation Reduction Potention	86.8	mv
GC-AP-MW-59HO	5/28/2020 12:35	pH	5.8	pH
GC-AP-MW-59HO	5/28/2020 12:35	Temperature	17.8	C
GC-AP-MW-59HO	5/28/2020 12:35	Turbidity	56.4	NTU
GC-AP-MW-59HO	5/28/2020 12:40	Conductivity	597.71	uS/cm
GC-AP-MW-59HO	5/28/2020 12:40	DO	0.19	mg/L
GC-AP-MW-59HO	5/28/2020 12:40	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:40	Oxidation Reduction Potention	87	mv
GC-AP-MW-59HO	5/28/2020 12:40	pH	5.81	pH
GC-AP-MW-59HO	5/28/2020 12:40	Temperature	17.78	C
GC-AP-MW-59HO	5/28/2020 12:40	Turbidity	44.3	NTU
GC-AP-MW-59HO	5/28/2020 12:45	Conductivity	597.86	uS/cm
GC-AP-MW-59HO	5/28/2020 12:45	DO	0.19	mg/L
GC-AP-MW-59HO	5/28/2020 12:45	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:45	Oxidation Reduction Potention	87.5	mv
GC-AP-MW-59HO	5/28/2020 12:45	pH	5.82	pH
GC-AP-MW-59HO	5/28/2020 12:45	Temperature	17.87	C
GC-AP-MW-59HO	5/28/2020 12:45	Turbidity	31.8	NTU
GC-AP-MW-59HO	5/28/2020 12:50	Conductivity	597.99	uS/cm
GC-AP-MW-59HO	5/28/2020 12:50	DO	0.19	mg/L
GC-AP-MW-59HO	5/28/2020 12:50	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:50	Oxidation Reduction Potention	86.71	mv
GC-AP-MW-59HO	5/28/2020 12:50	pH	5.85	pH
GC-AP-MW-59HO	5/28/2020 12:50	Temperature	17.95	C
GC-AP-MW-59HO	5/28/2020 12:50	Turbidity	25.4	NTU
GC-AP-MW-59HO	5/28/2020 12:55	Conductivity	597.29	uS/cm
GC-AP-MW-59HO	5/28/2020 12:55	DO	0.19	mg/L
GC-AP-MW-59HO	5/28/2020 12:55	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 12:55	Oxidation Reduction Potention	86.62	mv

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-59HO	5/28/2020 12:55	pH	5.88	pH
GC-AP-MW-59HO	5/28/2020 12:55	Temperature	17.85	C
GC-AP-MW-59HO	5/28/2020 12:55	Turbidity	20.7	NTU
GC-AP-MW-59HO	5/28/2020 13:00	Conductivity	595.69	uS/cm
GC-AP-MW-59HO	5/28/2020 13:00	DO	0.19	mg/L
GC-AP-MW-59HO	5/28/2020 13:00	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 13:00	Oxidation Reduction Potention	84.59	mv
GC-AP-MW-59HO	5/28/2020 13:00	pH	5.92	pH
GC-AP-MW-59HO	5/28/2020 13:00	Temperature	17.88	C
GC-AP-MW-59HO	5/28/2020 13:00	Turbidity	15.6	NTU
GC-AP-MW-59HO	5/28/2020 13:05	Conductivity	596.63	uS/cm
GC-AP-MW-59HO	5/28/2020 13:05	DO	0.19	mg/L
GC-AP-MW-59HO	5/28/2020 13:05	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 13:05	Oxidation Reduction Potention	84.74	mv
GC-AP-MW-59HO	5/28/2020 13:05	pH	5.94	pH
GC-AP-MW-59HO	5/28/2020 13:05	Temperature	17.68	C
GC-AP-MW-59HO	5/28/2020 13:05	Turbidity	11.2	NTU
GC-AP-MW-59HO	5/28/2020 13:10	Conductivity	596.75	uS/cm
GC-AP-MW-59HO	5/28/2020 13:10	DO	0.19	mg/L
GC-AP-MW-59HO	5/28/2020 13:10	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 13:10	Oxidation Reduction Potention	84.47	mv
GC-AP-MW-59HO	5/28/2020 13:10	pH	5.96	pH
GC-AP-MW-59HO	5/28/2020 13:10	Temperature	17.79	C
GC-AP-MW-59HO	5/28/2020 13:10	Turbidity	10.91	NTU
GC-AP-MW-59HO	5/28/2020 13:15	Conductivity	598.08	uS/cm
GC-AP-MW-59HO	5/28/2020 13:15	DO	0.18	mg/L
GC-AP-MW-59HO	5/28/2020 13:15	Depth to Water Detail	8.1	ft
GC-AP-MW-59HO	5/28/2020 13:15	Oxidation Reduction Potention	81.83	mv
GC-AP-MW-59HO	5/28/2020 13:15	pH	5.99	pH
GC-AP-MW-59HO	5/28/2020 13:15	Temperature	17.85	C
GC-AP-MW-59HO	5/28/2020 13:15	Turbidity	9.91	NTU

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

MW-52HO (Land Trust)

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

Alabama Power

Sample Group : WMWGREAP_1283

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 : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

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

Alabama Power

August 11, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2020.
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, 2021

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2020.08.11 16:00:35 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2020.08.12 08:13:29 -05'00'

NELAP ACCREDITED TNI LABORATORY

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.

Alabama Power Lab & Field SERVICES

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

Case Narrative

Alabama Power

Metals ICP

Greene County Ash Pond

WMWGREAP_1283

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12164	677157	WMWGREAP_1283
BA12165	677157	WMWGREAP_1283
BA12166	677157	WMWGREAP_1283
BA12167	677157	WMWGREAP_1283

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 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.
- 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:

Sample ID	Analyte	Dilution Factor
BA12164	Calcium	10.15
BA12165	Calcium	10.15

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

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

Case Narrative

Alabama Power

Metals ICPMS

Greene County Ash Pond

WMWGREAP_1283

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12164	676610	WMWGREAP_1283
BA12165	676610	WMWGREAP_1283
BA12166	676610	WMWGREAP_1283
BA12167	676610	WMWGREAP_1283

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.

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. All samples were analyzed without a dilution factor.

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

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

Case Narrative

Alabama Power

Mercury

Greene County Ash Pond

WMWGREAP_1283

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12164	676189	WMWGREAP_1283
BA12165	676189	WMWGREAP_1283
BA12166	676189	WMWGREAP_1283
BA12167	676189	WMWGREAP_1283

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 with all criteria 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 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 factor.

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

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

Case Narrative

Alabama Power

TDS

Greene County Ash Pond

WMWGREAP_1283

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12164	676308	WMWGREAP_1283
BA12165	676308	WMWGREAP_1283
BA12166	676308	WMWGREAP_1283
BA12167	676308	WMWGREAP_1283

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- 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:
    - BA12166
    - BA12167

Case Narrative

Anions

Greene County Ash Pond

WMWGREAP_1283

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12164	676678, 676684, & 676689	WMWGREAP_1283
BA12165	676678, 676684, & 676689	WMWGREAP_1283
BA12166	676678, 676684, & 676689	WMWGREAP_1283
BA12167	676678, 676684, & 676689	WMWGREAP_1283

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. 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:

Sample ID	Analyte	Dilution Factor
BA12164	Chloride & Sulfate	10 & 5
BA12165	Chloride & Sulfate	10 & 5

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

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP
Collected: 7/6/20 11:45
Customer ID:
Submittal Date: 7/6/20 16:28

Laboratory ID Number: BA12164

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	7/17/20 09:15	7/17/20 13:57		1.015	1.20	mg/L	0.03	0.1	
* Calcium, Total	7/17/20 09:15	7/17/20 14:47		10.15	75.6	mg/L	1.015	5.075	
* Lithium, Total	7/17/20 09:15	7/17/20 13:57		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	7/8/20 10:28	7/8/20 14:56		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	7/8/20 10:28	7/8/20 14:56		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	7/8/20 10:28	7/8/20 14:56		1.015	0.129	mg/L	0.002	0.01	
* Beryllium, Total	7/8/20 10:28	7/8/20 14:56		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	7/8/20 10:28	7/8/20 14:56		1.015	0.000366	mg/L	0.0003	0.001	J
* Chromium, Total	7/8/20 10:28	7/8/20 14:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	7/8/20 10:28	7/8/20 14:56		1.015	0.0158	mg/L	0.002	0.005	
* Lead, Total	7/8/20 10:28	7/8/20 14:56		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	7/8/20 10:28	7/8/20 14:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	7/8/20 10:28	7/8/20 14:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	7/8/20 10:28	7/8/20 14:56		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	7/8/20 09:13	7/9/20 13:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	7/8/20 13:40	7/10/20 12:07		1	498	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	7/9/20 14:20	7/9/20 14:20		10	103	mg/L	5.00	10	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	7/10/20 13:03	7/10/20 13:03		1	0.0721	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	7/10/20 14:17	7/10/20 14:17		5	78.2	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	7/6/20 11:40	7/6/20 11:40			791.16	uS/cm			FA
pH	7/6/20 11:40	7/6/20 11:40			6.07	SU			FA
Temperature	7/6/20 11:40	7/6/20 11:40			19.09	C			FA
Turbidity	7/6/20 11:40	7/6/20 11:40			7.46	NTU			FA

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

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 7/6/20 11:45
Customer ID:
Delivery Date: 7/6/20 16:28

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BA12164

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12167	Lead, Total	mg/L	0.00000103	0.0001474	0.10	0.0969	0.101	0.0975	0.085 to 0.115	96.9	70 to 130	4.14	20
BA12167	Beryllium, Total	mg/L	0.0000140	0.00088	0.10	0.0908	0.0954	0.0928	0.085 to 0.115	90.8	70 to 130	4.94	20
BA12167	Boron, Total	mg/L	0.00285	0.0650254	1.00	1.01	1.01	1.02	0.85 to 1.15	101	70 to 130	0.00	20
BA12167	Mercury, Total by CVAA	mg/L	0.0000313	0.0005	0.004	0.00394	0.00398	0.00391	0.0034 to 0.0046	98.5	70 to 130	1.01	20
BA12167	Antimony, Total	mg/L	0.000358	0.00066	0.10	0.0923	0.0958	0.0961	0.085 to 0.115	92.3	70 to 130	3.72	20
BA12167	Selenium, Total	mg/L	0.000339	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA12167	Chromium, Total	mg/L	-0.0000663	0.00044	0.10	0.0999	0.105	0.105	0.085 to 0.115	99.9	70 to 130	4.98	20
BA12167	Molybdenum, Total	mg/L	0.0000131	0.0001474	0.10	0.0996	0.101	0.101	0.085 to 0.115	99.6	70 to 130	1.40	20
BA12167	Cobalt, Total	mg/L	-0.00000125	0.0001474	0.10	0.101	0.106	0.106	0.085 to 0.115	101	70 to 130	4.83	20
BA12167	Barium, Total	mg/L	0.00000492	0.0002	0.10	0.0974	0.103	0.102	0.085 to 0.115	97.4	70 to 130	5.59	20
BA12167	Thallium, Total	mg/L	0.00000451	0.0001474	0.10	0.0976	0.105	0.100	0.085 to 0.115	97.6	70 to 130	7.31	20
BA12167	Arsenic, Total	mg/L	0.0000206	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA12167	Calcium, Total	mg/L	-0.000329	0.1518	5.00	5.27	5.27	5.31	4.25 to 5.75	105	70 to 130	0.00	20
BA12167	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.98	20
BA12167	Lithium, Total	mg/L	0.0000453	0.0154	0.20	0.201	0.200	0.205	0.17 to 0.23	100	70 to 130	0.499	20

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 7/6/20 11:45
Customer ID:
Delivery Date: 7/6/20 16:28

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BA12164

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12167	Sulfate	mg/L	-0.366	0.50	20.0	19.6	-0.455	19.5	18 to 22	98.0	80 to 120	0.00	20
BA12167	Chloride	mg/L	0.0102	0.50	10.0	10.2	0.124	10.3	9 to 11	102	80 to 120	0.00	20
BA12165	Solids, Dissolved	mg/L	0.0000	25			496	54.0	40 to 60			1.59	5
BA12167	Fluoride	mg/L	0.0304	0.05	2.50	2.54	0.0245	2.56	2.25 to 2.75	102	80 to 120	0.00	20

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP
Collected: 7/6/20 11:45
Customer ID:
Submittal Date: 7/6/20 16:28

Laboratory ID Number: BA12165

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	7/17/20 09:15	7/17/20 14:00		1.015	1.18	mg/L	0.03	0.1	
* Calcium, Total	7/17/20 09:15	7/17/20 14:50		10.15	70.6	mg/L	1.015	5.075	
* Lithium, Total	7/17/20 09:15	7/17/20 14:00		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	7/8/20 10:28	7/8/20 14:58		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	7/8/20 10:28	7/8/20 14:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	7/8/20 10:28	7/8/20 14:58		1.015	0.133	mg/L	0.002	0.01	
* Beryllium, Total	7/8/20 10:28	7/8/20 14:58		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	7/8/20 10:28	7/8/20 14:58		1.015	0.000495	mg/L	0.0003	0.001	J
* Chromium, Total	7/8/20 10:28	7/8/20 14:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	7/8/20 10:28	7/8/20 14:58		1.015	0.0179	mg/L	0.002	0.005	
* Lead, Total	7/8/20 10:28	7/8/20 14:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	7/8/20 10:28	7/8/20 14:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	7/8/20 10:28	7/8/20 14:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	7/8/20 10:28	7/8/20 14:58		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	7/8/20 09:13	7/9/20 13:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	7/8/20 13:40	7/10/20 12:07		1	512	mg/L		50	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	7/9/20 14:21	7/9/20 14:21		10	116	mg/L	5.00	10	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	7/10/20 13:04	7/10/20 13:04		1	0.0651	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	7/10/20 14:18	7/10/20 14:18		5	79.0	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	7/6/20 11:40	7/6/20 11:40			791.16	uS/cm			FA
pH	7/6/20 11:40	7/6/20 11:40			6.07	SU			FA
Temperature	7/6/20 11:40	7/6/20 11:40			19.09	C			FA
Turbidity	7/6/20 11:40	7/6/20 11:40			7.46	NTU			FA

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

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 7/6/20 11:45
Customer ID:
Delivery Date: 7/6/20 16:28

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BA12165

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12167	Lead, Total	mg/L	0.00000103	0.0001474	0.10	0.0969	0.101	0.0975	0.085 to 0.115	96.9	70 to 130	4.14	20
BA12167	Beryllium, Total	mg/L	0.0000140	0.00088	0.10	0.0908	0.0954	0.0928	0.085 to 0.115	90.8	70 to 130	4.94	20
BA12167	Antimony, Total	mg/L	0.000358	0.00066	0.10	0.0923	0.0958	0.0961	0.085 to 0.115	92.3	70 to 130	3.72	20
BA12167	Selenium, Total	mg/L	0.000339	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA12167	Cobalt, Total	mg/L	-0.00000125	0.0001474	0.10	0.101	0.106	0.106	0.085 to 0.115	101	70 to 130	4.83	20
BA12167	Boron, Total	mg/L	0.00285	0.0650254	1.00	1.01	1.01	1.02	0.85 to 1.15	101	70 to 130	0.00	20
BA12167	Mercury, Total by CVAA	mg/L	0.0000313	0.0005	0.004	0.00394	0.00398	0.00391	0.0034 to 0.0046	98.5	70 to 130	1.01	20
BA12167	Arsenic, Total	mg/L	0.0000206	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA12167	Calcium, Total	mg/L	-0.000329	0.1518	5.00	5.27	5.27	5.31	4.25 to 5.75	105	70 to 130	0.00	20
BA12167	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.98	20
BA12167	Lithium, Total	mg/L	0.0000453	0.0154	0.20	0.201	0.200	0.205	0.17 to 0.23	100	70 to 130	0.499	20
BA12167	Barium, Total	mg/L	0.00000492	0.0002	0.10	0.0974	0.103	0.102	0.085 to 0.115	97.4	70 to 130	5.59	20
BA12167	Thallium, Total	mg/L	0.00000451	0.0001474	0.10	0.0976	0.105	0.100	0.085 to 0.115	97.6	70 to 130	7.31	20
BA12167	Chromium, Total	mg/L	-0.0000663	0.00044	0.10	0.0999	0.105	0.105	0.085 to 0.115	99.9	70 to 130	4.98	20
BA12167	Molybdenum, Total	mg/L	0.0000131	0.0001474	0.10	0.0996	0.101	0.101	0.085 to 0.115	99.6	70 to 130	1.40	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 7/6/20 11:45
Customer ID:
Delivery Date: 7/6/20 16:28

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BA12165

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12167	Sulfate	mg/L	-0.366	0.50	20.0	19.6	-0.455	19.5	18 to 22	98.0	80 to 120	0.00	20
BA12165	Solids, Dissolved	mg/L	0.0000	25			496	54.0	40 to 60			1.59	5
BA12167	Fluoride	mg/L	0.0304	0.05	2.50	2.54	0.0245	2.56	2.25 to 2.75	102	80 to 120	0.00	20
BA12167	Chloride	mg/L	0.0102	0.50	10.0	10.2	0.124	10.3	9 to 11	102	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 7/6/20 12:05
Customer ID:
Submittal Date: 7/6/20 16:28

Laboratory ID Number: BA12166

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	7/17/20 09:15	7/17/20 14:03		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	7/17/20 09:15	7/17/20 14:03		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	7/17/20 09:15	7/17/20 14:03		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	7/8/20 10:28	7/8/20 15:01		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	7/8/20 09:13	7/9/20 13:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	7/8/20 13:40	7/10/20 12:07		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	7/9/20 14:22	7/9/20 14:22		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	7/10/20 13:05	7/10/20 13:05		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	7/10/20 14:20	7/10/20 14:20		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 7/6/20 12:05
Customer ID:
Delivery Date: 7/6/20 16:28

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA12166

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12167	Lead, Total	mg/L	0.00000103	0.0001474	0.10	0.0969	0.101	0.0975	0.085 to 0.115	96.9	70 to 130	4.14	20
BA12167	Beryllium, Total	mg/L	0.0000140	0.00088	0.10	0.0908	0.0954	0.0928	0.085 to 0.115	90.8	70 to 130	4.94	20
BA12167	Antimony, Total	mg/L	0.000358	0.00066	0.10	0.0923	0.0958	0.0961	0.085 to 0.115	92.3	70 to 130	3.72	20
BA12167	Selenium, Total	mg/L	0.000339	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA12167	Cobalt, Total	mg/L	-0.00000125	0.0001474	0.10	0.101	0.106	0.106	0.085 to 0.115	101	70 to 130	4.83	20
BA12167	Boron, Total	mg/L	0.00285	0.0650254	1.00	1.01	1.01	1.02	0.85 to 1.15	101	70 to 130	0.00	20
BA12167	Mercury, Total by CVAA	mg/L	0.0000313	0.0005	0.004	0.00394	0.00398	0.00391	0.0034 to 0.0046	98.5	70 to 130	1.01	20
BA12167	Arsenic, Total	mg/L	0.0000206	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA12167	Calcium, Total	mg/L	-0.000329	0.1518	5.00	5.27	5.27	5.31	4.25 to 5.75	105	70 to 130	0.00	20
BA12167	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.98	20
BA12167	Lithium, Total	mg/L	0.0000453	0.0154	0.20	0.201	0.200	0.205	0.17 to 0.23	100	70 to 130	0.499	20
BA12167	Chromium, Total	mg/L	-0.0000663	0.00044	0.10	0.0999	0.105	0.105	0.085 to 0.115	99.9	70 to 130	4.98	20
BA12167	Molybdenum, Total	mg/L	0.0000131	0.0001474	0.10	0.0996	0.101	0.101	0.085 to 0.115	99.6	70 to 130	1.40	20
BA12167	Barium, Total	mg/L	0.00000492	0.0002	0.10	0.0974	0.103	0.102	0.085 to 0.115	97.4	70 to 130	5.59	20
BA12167	Thallium, Total	mg/L	0.00000451	0.0001474	0.10	0.0976	0.105	0.100	0.085 to 0.115	97.6	70 to 130	7.31	20

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 7/6/20 12:05
Customer ID:
Delivery Date: 7/6/20 16:28

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA12166

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12167	Sulfate	mg/L	-0.366	0.50	20.0	19.6	-0.455	19.5	18 to 22	98.0	80 to 120	0.00	20
BA12167	Chloride	mg/L	0.0102	0.50	10.0	10.2	0.124	10.3	9 to 11	102	80 to 120	0.00	20
BA12165	Solids, Dissolved	mg/L	0.0000	25			496	54.0	40 to 60			1.59	5
BA12167	Fluoride	mg/L	0.0304	0.05	2.50	2.54	0.0245	2.56	2.25 to 2.75	102	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 7/6/20 12:15
Customer ID:
Submittal Date: 7/6/20 16:28

Laboratory ID Number: BA12167

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	7/17/20 09:15	7/17/20 14:06		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	7/17/20 09:15	7/17/20 14:06		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	7/17/20 09:15	7/17/20 14:06		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	7/8/20 10:28	7/8/20 15:03		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	7/8/20 09:13	7/9/20 13:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	7/8/20 13:40	7/10/20 12:07		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	7/9/20 14:24	7/9/20 14:24		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	7/10/20 13:06	7/10/20 13:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	7/10/20 14:21	7/10/20 14:21		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 7/6/20 12:15
Customer ID:
Delivery Date: 7/6/20 16:28

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA12167

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12167	Lead, Total	mg/L	0.00000103	0.0001474	0.10	0.0969	0.101	0.0975	0.085 to 0.115	96.9	70 to 130	4.14	20
BA12167	Beryllium, Total	mg/L	0.0000140	0.00088	0.10	0.0908	0.0954	0.0928	0.085 to 0.115	90.8	70 to 130	4.94	20
BA12167	Chromium, Total	mg/L	-0.0000663	0.00044	0.10	0.0999	0.105	0.105	0.085 to 0.115	99.9	70 to 130	4.98	20
BA12167	Molybdenum, Total	mg/L	0.0000131	0.0001474	0.10	0.0996	0.101	0.101	0.085 to 0.115	99.6	70 to 130	1.40	20
BA12167	Boron, Total	mg/L	0.00285	0.0650254	1.00	1.01	1.01	1.02	0.85 to 1.15	101	70 to 130	0.00	20
BA12167	Mercury, Total by CVAA	mg/L	0.0000313	0.0005	0.004	0.00394	0.00398	0.00391	0.0034 to 0.0046	98.5	70 to 130	1.01	20
BA12167	Cobalt, Total	mg/L	-0.00000125	0.0001474	0.10	0.101	0.106	0.106	0.085 to 0.115	101	70 to 130	4.83	20
BA12167	Antimony, Total	mg/L	0.000358	0.00066	0.10	0.0923	0.0958	0.0961	0.085 to 0.115	92.3	70 to 130	3.72	20
BA12167	Selenium, Total	mg/L	0.000339	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA12167	Barium, Total	mg/L	0.00000492	0.0002	0.10	0.0974	0.103	0.102	0.085 to 0.115	97.4	70 to 130	5.59	20
BA12167	Thallium, Total	mg/L	0.00000451	0.0001474	0.10	0.0976	0.105	0.100	0.085 to 0.115	97.6	70 to 130	7.31	20
BA12167	Arsenic, Total	mg/L	0.0000206	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA12167	Calcium, Total	mg/L	-0.000329	0.1518	5.00	5.27	5.27	5.31	4.25 to 5.75	105	70 to 130	0.00	20
BA12167	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.100	0.102	0.100	0.085 to 0.115	100	70 to 130	1.98	20
BA12167	Lithium, Total	mg/L	0.0000453	0.0154	0.20	0.201	0.200	0.205	0.17 to 0.23	100	70 to 130	0.499	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 7/6/20 12:15
Customer ID:
Delivery Date: 7/6/20 16:28

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA12167

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12167	Sulfate	mg/L	-0.366	0.50	20.0	19.6	-0.455	19.5	18 to 22	98.0	80 to 120	0.00	20
BA12167	Chloride	mg/L	0.0102	0.50	10.0	10.2	0.124	10.3	9 to 11	102	80 to 120	0.00	20
BA12165	Solids, Dissolved	mg/L	0.0000	25			496	54.0	40 to 60			1.59	5
BA12167	Fluoride	mg/L	0.0304	0.05	2.50	2.54	0.0245	2.56	2.25 to 2.75	102	80 to 120	0.00	20

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Definitions

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.
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 ☐ Outside Lab

☑ Lab Complete

Lab ETA 07/06/2020 16:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	07/06/2020	11:45	4	Groundwater		BA12164
MW-52HO Dup	07/06/2020	11:45	4	Sample Duplicate		BA12165
FB-1	07/06/2020	12:05	4	Field Blank		BA12166
EB-1	07/06/2020	12:15	4	Equipment Blank		BA12167

Relinquished By	Received By	Date/Time
		07/06/2020 15:50

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1283

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	1.3 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	7901-43573-2-2

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 07/06/2020 16:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	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-52HO. LBM 7/6/2020

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	07/06/2020	11:45	3	Groundwater		BA12168
MW-52HO Dup	07/06/2020	11:45	1	Sample Duplicate		BA12169
FB-1	07/06/2020	12:05	1	Field Blank		BA12170
EB-1	07/06/2020	12:15	1	Equipment Blank		BA12171

Relinquished By	Received By	Date/Time
		07/06/2020 15:50

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1283

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	7901-43573-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-190563-1
Laboratory SDG: Plant Greene County Ash Pond 1283
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Authorized for release by:
8/11/2020 4:56:33 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-190563-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-190563-1

RAD

Method 9315: Radium-226 Prep Batch 160-475965. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA12168 MW-52HO (400-190563-1), BA12168 MW-52HO (400-190563-1[MS]), BA12168 MW-52HO (400-190563-1[MSD]), BA12169 MW-52HO DUP (400-190563-2), BA12170 FB-1 (400-190563-3), BA12171 EB-1 (400-190563-4), (LCS 160-475965/1-A) and (MB 160-475965/19-A)

Method 9320: Radium-228 Prep Batch 160-475993. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA12168 MW-52HO (400-190563-1), BA12168 MW-52HO (400-190563-1[MS]), BA12168 MW-52HO (400-190563-1[MSD]), BA12169 MW-52HO DUP (400-190563-2), BA12170 FB-1 (400-190563-3), BA12171 EB-1 (400-190563-4), (LCS 160-475993/1-A) and (MB 160-475993/19-A)

Method PrecSep_0: Radium 228 Prep Batch 160-475993. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA12168 MW-52HO (400-190563-1), BA12168 MW-52HO (400-190563-1[MS]), BA12168 MW-52HO (400-190563-1[MSD]), BA12169 MW-52HO DUP (400-190563-2), BA12170 FB-1 (400-190563-3) and BA12171 EB-1 (400-190563-4).

Method PrecSep-21: Radium 226 Prep Batch 160-475965. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA12168 MW-52HO (400-190563-1), BA12168 MW-52HO (400-190563-1[MS]), BA12168 MW-52HO (400-190563-1[MSD]), BA12169 MW-52HO DUP (400-190563-2), BA12170 FB-1 (400-190563-3) and BA12171 EB-1 (400-190563-4).

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-190563-1	BA12168 MW-52HO	Water	07/06/20 11:45	07/08/20 11:55	
400-190563-2	BA12169 MW-52HO DUP	Water	07/06/20 11:45	07/08/20 11:55	
400-190563-3	BA12170 FB-1	Water	07/06/20 12:05	07/08/20 11:55	
400-190563-4	BA12171 EB-1	Water	07/06/20 12:15	07/08/20 11:55	

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Client Sample ID: BA12168 MW-52HO

Date Collected: 07/06/20 11:45
Date Received: 07/08/20 11:55

Lab Sample ID: 400-190563-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.413**		0.262	0.264	1.00	0.336	pCi/L	07/09/20 17:06	08/05/20 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.2*		*40 - 110*	*07/09/20 17:06*	*08/05/20 10:18*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0186	U	0.446	0.446	1.00	0.800	pCi/L	07/10/20 10:31	08/04/20 12:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.2*		*40 - 110*	*07/10/20 10:31*	*08/04/20 12:57*	*1*
Y Carrier	*76.6*		*40 - 110*	*07/10/20 10:31*	*08/04/20 12:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.432	U	0.517	0.518	5.00	0.800	pCi/L		08/11/20 13:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Client Sample ID: BA12169 MW-52HO DUP

Lab Sample ID: 400-190563-2
Matrix: Water

Date Collected: 07/06/20 11:45
Date Received: 07/08/20 11:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.357**		0.219	0.221	1.00	0.258	pCi/L	07/09/20 17:06	08/05/20 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.1*		*40 - 110*	*07/09/20 17:06*	*08/05/20 10:18*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.434	U	0.389	0.391	1.00	0.621	pCi/L	07/10/20 10:31	08/04/20 12:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.1*		*40 - 110*	*07/10/20 10:31*	*08/04/20 12:57*	*1*
Y Carrier	*80.4*		*40 - 110*	*07/10/20 10:31*	*08/04/20 12:57*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.791**		0.446	0.449	5.00	0.621	pCi/L		08/11/20 13:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Client Sample ID: BA12170 FB-1

Date Collected: 07/06/20 12:05
Date Received: 07/08/20 11:55

Lab Sample ID: 400-190563-3

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.162	U	0.180	0.180	1.00	0.282	pCi/L	07/09/20 17:06	08/05/20 10:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.2*		*40 - 110*	*07/09/20 17:06*	*08/05/20 10:18*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0126	U	0.385	0.385	1.00	0.698	pCi/L	07/10/20 10:31	08/04/20 12:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.2*		*40 - 110*	*07/10/20 10:31*	*08/04/20 12:58*	*1*
Y Carrier	*83.0*		*40 - 110*	*07/10/20 10:31*	*08/04/20 12:58*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.149	U	0.425	0.425	5.00	0.698	pCi/L		08/11/20 13:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Client Sample ID: BA12171 EB-1

Date Collected: 07/06/20 12:15
Date Received: 07/08/20 11:55

Lab Sample ID: 400-190563-4

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0267	U	0.134	0.134	1.00	0.276	pCi/L	07/09/20 17:06	08/05/20 10:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.8*		*40 - 110*	*07/09/20 17:06*	*08/05/20 10:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.417	U	0.440	0.442	1.00	0.719	pCi/L	07/10/20 10:31	08/04/20 12:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.8*		*40 - 110*	*07/10/20 10:31*	*08/04/20 12:58*	*1*
Y Carrier	*83.0*		*40 - 110*	*07/10/20 10:31*	*08/04/20 12:58*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.444	U	0.460	0.462	5.00	0.719	pCi/L		08/11/20 13:35	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Job ID: 400-190563-1
Project/Site: CCR Plant Greene
SDG: Plant Greene County Ash Pond 1283

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Client Sample ID: BA12168 MW-52HO
Lab Sample ID: 400-190563-1

Date Collected: 07/06/20 11:45
Date Received: 07/08/20 11:55
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			475965	07/09/20 17:06	DAS	TAL SL
Total/NA	Analysis	9315		1	478462	08/05/20 10:18	CMM	TAL SL
Total/NA	Prep	PrecSep_0			475993	07/10/20 10:31	CLP	TAL SL
Total/NA	Analysis	9320		1	478439	08/04/20 12:57	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	479187	08/11/20 13:35	SMP	TAL SL

Client Sample ID: BA12169 MW-52HO DUP
Lab Sample ID: 400-190563-2

Date Collected: 07/06/20 11:45
Date Received: 07/08/20 11:55
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			475965	07/09/20 17:06	DAS	TAL SL
Total/NA	Analysis	9315		1	478462	08/05/20 10:18	CMM	TAL SL
Total/NA	Prep	PrecSep_0			475993	07/10/20 10:31	CLP	TAL SL
Total/NA	Analysis	9320		1	478439	08/04/20 12:57	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	479187	08/11/20 13:35	SMP	TAL SL

Client Sample ID: BA12170 FB-1
Lab Sample ID: 400-190563-3

Date Collected: 07/06/20 12:05
Date Received: 07/08/20 11:55
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			475965	07/09/20 17:06	DAS	TAL SL
Total/NA	Analysis	9315		1	478462	08/05/20 10:18	CMM	TAL SL
Total/NA	Prep	PrecSep_0			475993	07/10/20 10:31	CLP	TAL SL
Total/NA	Analysis	9320		1	478439	08/04/20 12:58	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	479187	08/11/20 13:35	SMP	TAL SL

Client Sample ID: BA12171 EB-1
Lab Sample ID: 400-190563-4

Date Collected: 07/06/20 12:15
Date Received: 07/08/20 11:55
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			475965	07/09/20 17:06	DAS	TAL SL
Total/NA	Analysis	9315		1	478462	08/05/20 10:19	CMM	TAL SL
Total/NA	Prep	PrecSep_0			475993	07/10/20 10:31	CLP	TAL SL
Total/NA	Analysis	9320		1	478439	08/04/20 12:58	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	479187	08/11/20 13:35	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Rad

Prep Batch: 475965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-190563-1	BA12168 MW-52HO	Total/NA	Water	PrecSep-21	
400-190563-2	BA12169 MW-52HO DUP	Total/NA	Water	PrecSep-21	
400-190563-3	BA12170 FB-1	Total/NA	Water	PrecSep-21	
400-190563-4	BA12171 EB-1	Total/NA	Water	PrecSep-21	
MB 160-475965/19-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-475965/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-190563-1 MS	BA12168 MW-52HO	Total/NA	Water	PrecSep-21	
400-190563-1 MSD	BA12168 MW-52HO	Total/NA	Water	PrecSep-21	

Prep Batch: 475993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-190563-1	BA12168 MW-52HO	Total/NA	Water	PrecSep_0	
400-190563-2	BA12169 MW-52HO DUP	Total/NA	Water	PrecSep_0	
400-190563-3	BA12170 FB-1	Total/NA	Water	PrecSep_0	
400-190563-4	BA12171 EB-1	Total/NA	Water	PrecSep_0	
MB 160-475993/19-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-475993/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-190563-1 MS	BA12168 MW-52HO	Total/NA	Water	PrecSep_0	
400-190563-1 MSD	BA12168 MW-52HO	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-475965/19-A
Matrix: Water
Analysis Batch: 478462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475965

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.09815	U	0.195	0.195	1.00	0.349	pCi/L	07/09/20 17:06	08/05/20 12:09	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*40 - 110*	*07/09/20 17:06*	*08/05/20 12:09*	*1*

Lab Sample ID: LCS 160-475965/1-A
Matrix: Water
Analysis Batch: 478462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475965

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	13.78		1.66	1.00	0.229	pCi/L	91	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.3*		*40 - 110*

Lab Sample ID: 400-190563-1 MS
Matrix: Water
Analysis Batch: 478462

Client Sample ID: BA12168 MW-52HO
Prep Type: Total/NA
Prep Batch: 475965

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.413		15.1	15.18		1.83	1.00	0.258	pCi/L	98	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*79.5*		*40 - 110*

Lab Sample ID: 400-190563-1 MSD
Matrix: Water
Analysis Batch: 478462

Client Sample ID: BA12168 MW-52HO
Prep Type: Total/NA
Prep Batch: 475965

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.413		15.1	14.19		1.77	1.00	0.292	pCi/L	91	75 - 138	0.27	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*76.6*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-475993/19-A
Matrix: Water
Analysis Batch: 478456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475993

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.03674	U	0.391	0.391	1.00	0.704	pCi/L	07/10/20 10:31	08/04/20 13:05	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		40 - 110	07/10/20 10:31	08/04/20 13:05	1
Y Carrier	82.6		40 - 110	07/10/20 10:31	08/04/20 13:05	1

Lab Sample ID: LCS 160-475993/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 478439 — **Prep Batch: 475993**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			13.6	14.07		1.67	1.00	0.765	pCi/L	103	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.3		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: 400-190563-1 MS — **Client Sample ID: BA12168 MW-52HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 478439 — **Prep Batch: 475993**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.0186	U	13.6	14.07		1.70	1.00	0.672	pCi/L	103	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	79.5		40 - 110
Y Carrier	86.0		40 - 110

Lab Sample ID: 400-190563-1 MSD — **Client Sample ID: BA12168 MW-52HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 478439 — **Prep Batch: 475993**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.0186	U	13.6	14.65		1.79	1.00	0.755	pCi/L	108	45 - 150	0.17	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	76.6		40 - 110
Y Carrier	80.7		40 - 110

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

400-190563 COC

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1283	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA12168	7/6/20	11:45	G	Water		X				X	3	MW-52HO
BA12169	7/6/20	11:45	G	Water						X	1	MW-52HO DUP (Sample Duplicate)
BA12170	7/6/20	12:05	G	Water						X	1	FB-1 (Field Blank)
BA12171	7/6/20	12:15	G	Water						X	1	EB-1 (Equipment Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 07/07/2020 08:52	Water APC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 7-8-20 1155	Company JAPEN
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 22.9°C IR-9		

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-190563-1
SDG Number: Plant Greene County Ash Pond 1283

Login Number: 190563
List Number: 1
Creator: Conrady, Hank W

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	22.9°C IR-9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-190563-1
SDG Number: Plant Greene County Ash Pond 1283

Login Number: 190563
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 07/09/20 12:08 PM

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

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190563-1
SDG: Plant Greene County Ash Pond 1283

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-52HO	7/6/2020 11:20	Conductivity	792.24	uS/cm
GC-AP-MW-52HO	7/6/2020 11:20	DO	0.26	mg/L
GC-AP-MW-52HO	7/6/2020 11:20	Depth to Water Detail	7.46	ft
GC-AP-MW-52HO	7/6/2020 11:20	Oxidation Reduction Potention	113.51	mv
GC-AP-MW-52HO	7/6/2020 11:20	pH	6.05	pH
GC-AP-MW-52HO	7/6/2020 11:20	Temperature	18.95	C
GC-AP-MW-52HO	7/6/2020 11:20	Turbidity	42.3	NTU
GC-AP-MW-52HO	7/6/2020 11:25	Conductivity	792.44	uS/cm
GC-AP-MW-52HO	7/6/2020 11:25	DO	0.25	mg/L
GC-AP-MW-52HO	7/6/2020 11:25	Depth to Water Detail	7.46	ft
GC-AP-MW-52HO	7/6/2020 11:25	Oxidation Reduction Potention	111.93	mv
GC-AP-MW-52HO	7/6/2020 11:25	pH	6.07	pH
GC-AP-MW-52HO	7/6/2020 11:25	Temperature	18.96	C
GC-AP-MW-52HO	7/6/2020 11:25	Turbidity	18.4	NTU
GC-AP-MW-52HO	7/6/2020 11:30	Conductivity	797.28	uS/cm
GC-AP-MW-52HO	7/6/2020 11:30	DO	0.23	mg/L
GC-AP-MW-52HO	7/6/2020 11:30	Depth to Water Detail	7.46	ft
GC-AP-MW-52HO	7/6/2020 11:30	Oxidation Reduction Potention	110.85	mv
GC-AP-MW-52HO	7/6/2020 11:30	pH	6.06	pH
GC-AP-MW-52HO	7/6/2020 11:30	Temperature	19.06	C
GC-AP-MW-52HO	7/6/2020 11:30	Turbidity	12.12	NTU
GC-AP-MW-52HO	7/6/2020 11:35	Conductivity	792.56	uS/cm
GC-AP-MW-52HO	7/6/2020 11:35	DO	0.22	mg/L
GC-AP-MW-52HO	7/6/2020 11:35	Depth to Water Detail	7.46	ft
GC-AP-MW-52HO	7/6/2020 11:35	Oxidation Reduction Potention	111.64	mv
GC-AP-MW-52HO	7/6/2020 11:35	pH	6.07	pH
GC-AP-MW-52HO	7/6/2020 11:35	Temperature	19.07	C
GC-AP-MW-52HO	7/6/2020 11:35	Turbidity	6.96	NTU
GC-AP-MW-52HO	7/6/2020 11:40	Conductivity	791.16	uS/cm
GC-AP-MW-52HO	7/6/2020 11:40	DO	0.21	mg/L
GC-AP-MW-52HO	7/6/2020 11:40	Depth to Water Detail	7.46	ft
GC-AP-MW-52HO	7/6/2020 11:40	Oxidation Reduction Potention	112.53	mv
GC-AP-MW-52HO	7/6/2020 11:40	pH	6.07	pH
GC-AP-MW-52HO	7/6/2020 11:40	Temperature	19.09	C
GC-AP-MW-52HO	7/6/2020 11:40	Turbidity	7.46	NTU

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

MW-46HO (Strong)

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.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-190565-1
Laboratory SDG: Plant Greene County Ash Pond 1284
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Authorized for release by:
8/11/2020 5:02:39 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-190565-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-190565-1

Receipt Exceptions
The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: 400-190565-1.

RAD
Method 9315: Radium-226 Prep Batch 160-475965. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA12177 MW-46HO (400-190565-2), BA12177 MW-46HO (400-190565-2[MS]), BA12177 MW-46HO (400-190565-2[MSD]), BA12178 MW-46HO DUP (400-190565-3), BA12179 FB-1 (400-190565-4), (LCS 160-475965/1-A) and (MB 160-475965/19-A)

Method 9320: Radium-228 Prep Batch 160-475993. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA12177 MW-46HO (400-190565-2), BA12177 MW-46HO (400-190565-2[MS]), BA12177 MW-46HO (400-190565-2[MSD]), BA12178 MW-46HO DUP (400-190565-3), BA12179 FB-1 (400-190565-4), (LCS 160-475993/1-A) and (MB 160-475993/19-A)

Method PrecSep_0: Radium 228 Prep Batch 160-475993. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA12177 MW-46HO (400-190565-2), BA12177 MW-46HO (400-190565-2[MS]), BA12177 MW-46HO (400-190565-2[MSD]), BA12178 MW-46HO DUP (400-190565-3) and BA12179 FB-1 (400-190565-4).

Method PrecSep-21: Radium 226 Prep Batch 160-475965. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA12177 MW-46HO (400-190565-2), BA12177 MW-46HO (400-190565-2[MS]), BA12177 MW-46HO (400-190565-2[MSD]), BA12178 MW-46HO DUP (400-190565-3) and BA12179 FB-1 (400-190565-4).

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-190565-2	BA12177 MW-46HO	Water	07/06/20 12:29	07/08/20 11:55	
400-190565-3	BA12178 MW-46HO DUP	Water	07/06/20 12:29	07/08/20 11:55	
400-190565-4	BA12179 FB-1	Water	07/06/20 12:55	07/08/20 11:55	

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Client Sample ID: BA12177 MW-46HO

Date Collected: 07/06/20 12:29
Date Received: 07/08/20 11:55

Lab Sample ID: 400-190565-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0195	U	0.145	0.145	1.00	0.322	pCi/L	07/09/20 17:06	08/05/20 10:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*40 - 110*	*07/09/20 17:06*	*08/05/20 10:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.312	U	0.534	0.535	1.00	0.898	pCi/L	07/10/20 10:31	08/04/20 13:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*40 - 110*	*07/10/20 10:31*	*08/04/20 13:05*	*1*
Y Carrier	*80.4*		*40 - 110*	*07/10/20 10:31*	*08/04/20 13:05*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.292	U	0.553	0.554	5.00	0.898	pCi/L		08/11/20 13:35	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Client Sample ID: BA12178 MW-46HO DUP

Lab Sample ID: 400-190565-3

Date Collected: 07/06/20 12:29
Matrix: Water
Date Received: 07/08/20 11:55

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.166	U	0.163	0.164	1.00	0.244	pCi/L	07/09/20 17:06	08/05/20 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*40 - 110*	*07/09/20 17:06*	*08/05/20 12:09*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.110	U	0.470	0.470	1.00	0.813	pCi/L	07/10/20 10:31	08/04/20 13:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*40 - 110*	*07/10/20 10:31*	*08/04/20 13:05*	*1*
Y Carrier	*83.0*		*40 - 110*	*07/10/20 10:31*	*08/04/20 13:05*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.277	U	0.497	0.498	5.00	0.813	pCi/L		08/11/20 13:36	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Client Sample ID: BA12179 FB-1

Date Collected: 07/06/20 12:55
Date Received: 07/08/20 11:55

Lab Sample ID: 400-190565-4

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0261	U	0.111	0.111	1.00	0.230	pCi/L	07/09/20 17:06	08/05/20 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*07/09/20 17:06*	*08/05/20 12:09*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.319	U	0.359	0.360	1.00	0.692	pCi/L	07/10/20 10:31	08/04/20 13:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*07/10/20 10:31*	*08/04/20 13:05*	*1*
Y Carrier	*81.9*		*40 - 110*	*07/10/20 10:31*	*08/04/20 13:05*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.293	U	0.376	0.377	5.00	0.692	pCi/L		08/11/20 13:36	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Client Sample ID: BA12177 MW-46HO

Lab Sample ID: 400-190565-2
Date Collected: 07/06/20 12:29
Matrix: Water
Date Received: 07/08/20 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			475965	07/09/20 17:06	DAS	TAL SL
Total/NA	Analysis	9315		1	478462	08/05/20 10:19	CMM	TAL SL
Total/NA	Prep	PrecSep_0			475993	07/10/20 10:31	CLP	TAL SL
Total/NA	Analysis	9320		1	478456	08/04/20 13:05	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	479187	08/11/20 13:35	SMP	TAL SL

Client Sample ID: BA12178 MW-46HO DUP

Lab Sample ID: 400-190565-3
Date Collected: 07/06/20 12:29
Matrix: Water
Date Received: 07/08/20 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			475965	07/09/20 17:06	DAS	TAL SL
Total/NA	Analysis	9315		1	478462	08/05/20 12:09	CMM	TAL SL
Total/NA	Prep	PrecSep_0			475993	07/10/20 10:31	CLP	TAL SL
Total/NA	Analysis	9320		1	478456	08/04/20 13:05	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	479187	08/11/20 13:36	SMP	TAL SL

Client Sample ID: BA12179 FB-1

Lab Sample ID: 400-190565-4
Date Collected: 07/06/20 12:55
Matrix: Water
Date Received: 07/08/20 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			475965	07/09/20 17:06	DAS	TAL SL
Total/NA	Analysis	9315		1	478462	08/05/20 12:09	CMM	TAL SL
Total/NA	Prep	PrecSep_0			475993	07/10/20 10:31	CLP	TAL SL
Total/NA	Analysis	9320		1	478456	08/04/20 13:05	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	479187	08/11/20 13:36	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Rad

Prep Batch: 475965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-190565-2	BA12177 MW-46HO	Total/NA	Water	PrecSep-21	
400-190565-3	BA12178 MW-46HO DUP	Total/NA	Water	PrecSep-21	
400-190565-4	BA12179 FB-1	Total/NA	Water	PrecSep-21	
MB 160-475965/19-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-475965/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-190565-2 MS	BA12177 MW-46HO	Total/NA	Water	PrecSep-21	
400-190565-2 MSD	BA12177 MW-46HO	Total/NA	Water	PrecSep-21	

Prep Batch: 475993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-190565-2	BA12177 MW-46HO	Total/NA	Water	PrecSep_0	
400-190565-3	BA12178 MW-46HO DUP	Total/NA	Water	PrecSep_0	
400-190565-4	BA12179 FB-1	Total/NA	Water	PrecSep_0	
MB 160-475993/19-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-475993/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-190565-2 MS	BA12177 MW-46HO	Total/NA	Water	PrecSep_0	
400-190565-2 MSD	BA12177 MW-46HO	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-475965/19-A
Matrix: Water
Analysis Batch: 478462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475965

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.09815	U	0.195	0.195	1.00	0.349	pCi/L	07/09/20 17:06	08/05/20 12:09	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.6*		*40 - 110*	*07/09/20 17:06*	*08/05/20 12:09*	*1*

Lab Sample ID: LCS 160-475965/1-A
Matrix: Water
Analysis Batch: 478462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475965

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	13.78		1.66	1.00	0.229	pCi/L	91	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.3*		*40 - 110*

Lab Sample ID: 400-190565-2 MS
Matrix: Water
Analysis Batch: 478462

Client Sample ID: BA12177 MW-46HO
Prep Type: Total/NA
Prep Batch: 475965

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	-0.0195	U	15.1	15.23		1.84	1.00	0.323	pCi/L	101	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*84.9*		*40 - 110*

Lab Sample ID: 400-190565-2 MSD
Matrix: Water
Analysis Batch: 478462

Client Sample ID: BA12177 MW-46HO
Prep Type: Total/NA
Prep Batch: 475965

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	-0.0195	U	15.1	14.44		1.76	1.00	0.307	pCi/L	95	75 - 138	0.22	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*84.9*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-475993/19-A
Matrix: Water
Analysis Batch: 478456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475993

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.03674	U	0.391	0.391	1.00	0.704	pCi/L	07/10/20 10:31	08/04/20 13:05	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		40 - 110	07/10/20 10:31	08/04/20 13:05	1
Y Carrier	82.6		40 - 110	07/10/20 10:31	08/04/20 13:05	1

Lab Sample ID: LCS 160-475993/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 478439 — **Prep Batch: 475993**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			13.6	14.07		1.67	1.00	0.765	pCi/L	103	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.3		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: 400-190565-2 MS — **Client Sample ID: BA12177 MW-46HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 478456 — **Prep Batch: 475993**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.312	U	13.6	13.93		1.71	1.00	0.797	pCi/L	100	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	84.9		40 - 110
Y Carrier	79.6		40 - 110

Lab Sample ID: 400-190565-2 MSD — **Client Sample ID: BA12177 MW-46HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 478456 — **Prep Batch: 475993**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.312	U	13.6	15.43		1.84	1.00	0.807	pCi/L	111	45 - 150	0.42	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	84.9		40 - 110
Y Carrier	82.2		40 - 110

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

400-190565 COC

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1284	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA12176	7/6/20	11:25	G	Water						X	1	EB-1 (Equipment Blank)
BA12177	7/6/20	12:29	G	Water		X				X	3	MW-46HO
BA12178	7/6/20	12:29	G	Water						X	1	MW-46HO DUP (Sample Duplicate)
BA12179	7/6/20	12:55	G	Water						X	1	FB-1 (Field Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 43599 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 07/07/2020 08:55	Water APC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7-8-20 1155	Company TAPEN

Custody Seals Intact: | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

22.9°C R-9

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-190565-1
SDG Number: Plant Greene County Ash Pond 1284

Login Number: 190565
List Number: 1
Creator: Conrady, Hank W

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	22.9°C IR-9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Sample 1 did not have any conrtainers. Client notified.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-190565-1
SDG Number: Plant Greene County Ash Pond 1284

Login Number: 190565
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 07/09/20 12:08 PM

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

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-190565-1
SDG: Plant Greene County Ash Pond 1284

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-20
West Virginia DEP	State	381	10-31-20

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

Analytical Report

Alabama Power

Sample Group : WMWGREAP_1284

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 : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

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

Alabama Power

August 11, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2020.
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, 2021

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2020.08.11 16:01:25 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2020.08.12 08:27:28 -05'00'

NELAP ACCREDITED TNI LABORATORY

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.

Alabama Power Lab & Field SERVICES

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

Case Narrative

Alabama Power

Metals ICP

Greene County Ash Pond

WMWGREAP_1284

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12172	677161	WMWGREAP_1284
BA12173	677161	WMWGREAP_1284
BA12174	677161	WMWGREAP_1284
BA12175	677161	WMWGREAP_1284

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 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.
- 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:

Sample ID	Analyte	Dilution Factor
BA12173	Calcium	10.15
BA12174	Calcium	10.15

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

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

Case Narrative

Alabama Power

Metals ICPMS

Greene County Ash Pond

WMWGREAP_1284

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12172	676595	WMWGREAP_1284
BA12173	676595	WMWGREAP_1284
BA12174	676595	WMWGREAP_1284
BA12175	676595	WMWGREAP_1284

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.

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. All samples were analyzed without a dilution factor.

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

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

Case Narrative

Alabama Power

Mercury

Greene County Ash Pond

WMWGREAP_1284

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12172	676190	WMWGREAP_1284
BA12173	676190	WMWGREAP_1284
BA12174	676190	WMWGREAP_1284
BA12175	676190	WMWGREAP_1284

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 with all criteria 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 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 factor.

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

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

Case Narrative

Alabama Power

TDS

Greene County Ash Pond

WMWGREAP_1284

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12172	676309	WMWGREAP_1284
BA12173	676309	WMWGREAP_1284
BA12174	676309	WMWGREAP_1284
BA12175	676309	WMWGREAP_1284

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- 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:
    - BA12172
    - BA12175

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

Case Narrative

Alabama Power

Anions

Greene County Ash Pond

WMWGREAP_1284

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA12172	676679, 676685, & 676690	WMWGREAP_1284
BA12173	676679, 676685, & 676690	WMWGREAP_1284
BA12174	676679, 676685, & 676690	WMWGREAP_1284
BA12175	676679, 676685, & 676690	WMWGREAP_1284

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. 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:

Sample ID	Analyte	Dilution Factor
BA12173	Sulfate	5
BA12174	Sulfate	5

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

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 7/6/20 11:25
Customer ID:
Submittal Date: 7/6/20 16:33

Laboratory ID Number: BA12172

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	7/17/20 09:15	7/17/20 14:23		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	7/17/20 09:15	7/17/20 14:23		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	7/17/20 09:15	7/17/20 14:23		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	7/8/20 10:40	7/8/20 15:25		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	7/8/20 09:13	7/9/20 13:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	7/8/20 13:40	7/10/20 12:07		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	7/9/20 14:36	7/9/20 14:36		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	7/10/20 13:18	7/10/20 13:18		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	7/10/20 14:37	7/10/20 14:37		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 7/6/20 11:25
Customer ID:
Delivery Date: 7/6/20 16:33

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA12172

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12175	Molybdenum, Total	mg/L	0.00000863	0.0001474	0.10	0.103	0.102	0.103	0.085 to 0.115	103	70 to 130	0.976	20
BA12175	Arsenic, Total	mg/L	0.0000500	0.0001474	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA12175	Lead, Total	mg/L	0.00000162	0.0001474	0.10	0.0993	0.0965	0.0985	0.085 to 0.115	99.3	70 to 130	2.86	20
BA12175	Thallium, Total	mg/L	0.00000662	0.0001474	0.10	0.102	0.0977	0.0998	0.085 to 0.115	102	70 to 130	4.31	20
BA12175	Barium, Total	mg/L	-0.00000667	0.0002	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.96	20
BA12175	Lithium, Total	mg/L	0.0000453	0.0154	0.20	0.200	0.201	0.205	0.17 to 0.23	100	70 to 130	0.499	20
BA12175	Antimony, Total	mg/L	0.000419	0.00066	0.10	0.0962	0.0947	0.0991	0.085 to 0.115	96.2	70 to 130	1.57	20
BA12175	Calcium, Total	mg/L	-0.000329	0.1518	5.00	5.23	5.25	5.31	4.25 to 5.75	105	70 to 130	0.382	20
BA12175	Cobalt, Total	mg/L	-0.00000094	0.0001474	0.10	0.104	0.104	0.105	0.085 to 0.115	104	70 to 130	0.00	20
BA12175	Chromium, Total	mg/L	-0.0000762	0.00044	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.00	20
BA12175	Mercury, Total by CVAA	mg/L	0.0000343	0.0005	0.004	0.00404	0.00403	0.00375	0.0034 to 0.0046	101	70 to 130	0.248	20
BA12175	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.103	0.102	0.102	0.085 to 0.115	103	70 to 130	0.976	20
BA12175	Selenium, Total	mg/L	0.000239	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA12175	Beryllium, Total	mg/L	0.0000276	0.00088	0.10	0.0976	0.0919	0.0903	0.085 to 0.115	97.6	70 to 130	6.02	20
BA12175	Boron, Total	mg/L	0.00285	0.0650254	1.00	1.01	1.01	1.02	0.85 to 1.15	101	70 to 130	0.00	20

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 7/6/20 11:25
Customer ID:
Delivery Date: 7/6/20 16:33

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA12172

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12175	Sulfate	mg/L	-0.338	0.50	20.0	19.4	-0.372	19.6	18 to 22	97.0	80 to 120	0.00	20
BA12175	Chloride	mg/L	0.00304	0.50	10.0	10.1	0.116	10.4	9 to 11	101	80 to 120	0.00	20
BA12174	Solids, Dissolved	mg/L	0.0000	25			262	54.0	40 to 60			0.383	5
BA12175	Fluoride	mg/L	0.0269	0.05	2.50	2.54	0.0183	2.57	2.25 to 2.75	102	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-46HO

Location Code: WMWGREAP
Collected: 7/6/20 12:29
Customer ID:
Submittal Date: 7/6/20 16:33

Laboratory ID Number: BA12173

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	7/17/20 09:15	7/17/20 14:26		1.015	0.274	mg/L	0.03	0.1	
* Calcium, Total	7/17/20 09:15	7/17/20 15:13		10.15	51.1	mg/L	1.015	5.075	
* Lithium, Total	7/17/20 09:15	7/17/20 14:26		1.015	0.0890	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	7/8/20 10:40	7/8/20 15:27		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	7/8/20 10:40	7/8/20 15:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	7/8/20 10:40	7/8/20 15:27		1.015	0.0613	mg/L	0.002	0.01	
* Beryllium, Total	7/8/20 10:40	7/8/20 15:27		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	7/8/20 10:40	7/8/20 15:27		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	7/8/20 10:40	7/8/20 15:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	7/8/20 10:40	7/8/20 15:27		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	7/8/20 10:40	7/8/20 15:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	7/8/20 10:40	7/8/20 15:27		1.015	0.0661	mg/L	0.002	0.01	
* Selenium, Total	7/8/20 10:40	7/8/20 15:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	7/8/20 10:40	7/8/20 15:27		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	7/8/20 09:13	7/9/20 13:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	7/8/20 13:40	7/10/20 12:07		1	260	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	7/9/20 14:37	7/9/20 14:37		1	4.50	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	7/10/20 13:19	7/10/20 13:19		1	0.185	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	7/10/20 14:38	7/10/20 14:38		5	83.4	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	7/6/20 12:25	7/6/20 12:25			399.51	uS/cm			FA
pH	7/6/20 12:25	7/6/20 12:25			6.69	SU			FA
Temperature	7/6/20 12:25	7/6/20 12:25			20.37	C			FA
Turbidity	7/6/20 12:25	7/6/20 12:25			2.3	NTU			FA

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

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 7/6/20 12:29
Customer ID:
Delivery Date: 7/6/20 16:33

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BA12173

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12175	Molybdenum, Total	mg/L	0.00000863	0.0001474	0.10	0.103	0.102	0.103	0.085 to 0.115	103	70 to 130	0.976	20
BA12175	Beryllium, Total	mg/L	0.0000276	0.00088	0.10	0.0976	0.0919	0.0903	0.085 to 0.115	97.6	70 to 130	6.02	20
BA12175	Boron, Total	mg/L	0.00285	0.0650254	1.00	1.01	1.01	1.02	0.85 to 1.15	101	70 to 130	0.00	20
BA12175	Arsenic, Total	mg/L	0.0000500	0.0001474	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA12175	Lead, Total	mg/L	0.00000162	0.0001474	0.10	0.0993	0.0965	0.0985	0.085 to 0.115	99.3	70 to 130	2.86	20
BA12175	Thallium, Total	mg/L	0.00000662	0.0001474	0.10	0.102	0.0977	0.0998	0.085 to 0.115	102	70 to 130	4.31	20
BA12175	Barium, Total	mg/L	-0.00000667	0.0002	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.96	20
BA12175	Lithium, Total	mg/L	0.0000453	0.0154	0.20	0.200	0.201	0.205	0.17 to 0.23	100	70 to 130	0.499	20
BA12175	Antimony, Total	mg/L	0.000419	0.00066	0.10	0.0962	0.0947	0.0991	0.085 to 0.115	96.2	70 to 130	1.57	20
BA12175	Calcium, Total	mg/L	-0.000329	0.1518	5.00	5.23	5.25	5.31	4.25 to 5.75	105	70 to 130	0.382	20
BA12175	Cobalt, Total	mg/L	-0.00000094	0.0001474	0.10	0.104	0.104	0.105	0.085 to 0.115	104	70 to 130	0.00	20
BA12175	Chromium, Total	mg/L	-0.0000762	0.00044	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.00	20
BA12175	Mercury, Total by CVAA	mg/L	0.0000343	0.0005	0.004	0.00404	0.00403	0.00375	0.0034 to 0.0046	101	70 to 130	0.248	20
BA12175	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.103	0.102	0.102	0.085 to 0.115	103	70 to 130	0.976	20
BA12175	Selenium, Total	mg/L	0.000239	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 7/6/20 12:29
Customer ID:
Delivery Date: 7/6/20 16:33

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BA12173

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12175	Sulfate	mg/L	-0.338	0.50	20.0	19.4	-0.372	19.6	18 to 22	97.0	80 to 120	0.00	20
BA12175	Chloride	mg/L	0.00304	0.50	10.0	10.1	0.116	10.4	9 to 11	101	80 to 120	0.00	20
BA12174	Solids, Dissolved	mg/L	0.0000	25			262	54.0	40 to 60			0.383	5
BA12175	Fluoride	mg/L	0.0269	0.05	2.50	2.54	0.0183	2.57	2.25 to 2.75	102	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-46HO DUP

Location Code: WMWGREAP
Collected: 7/6/20 12:29
Customer ID:
Submittal Date: 7/6/20 16:33

Laboratory ID Number: BA12174

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	7/17/20 09:15	7/17/20 14:29		1.015	0.267	mg/L	0.03	0.1	
* Calcium, Total	7/17/20 09:15	7/17/20 15:16		10.15	49.9	mg/L	1.015	5.075	
* Lithium, Total	7/17/20 09:15	7/17/20 14:29		1.015	0.0880	mg/L	0.01	0.02	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	7/8/20 10:40	7/8/20 15:30		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	7/8/20 10:40	7/8/20 15:30		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	7/8/20 10:40	7/8/20 15:30		1.015	0.0607	mg/L	0.002	0.01	
* Beryllium, Total	7/8/20 10:40	7/8/20 15:30		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	7/8/20 10:40	7/8/20 15:30		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	7/8/20 10:40	7/8/20 15:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	7/8/20 10:40	7/8/20 15:30		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	7/8/20 10:40	7/8/20 15:30		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	7/8/20 10:40	7/8/20 15:30		1.015	0.0671	mg/L	0.002	0.01	
* Selenium, Total	7/8/20 10:40	7/8/20 15:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	7/8/20 10:40	7/8/20 15:30		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	7/8/20 09:13	7/9/20 13:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	7/8/20 13:40	7/10/20 12:07		1	260	mg/L		25	
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	7/9/20 14:39	7/9/20 14:39		1	4.31	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	7/10/20 13:20	7/10/20 13:20		1	0.183	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	7/10/20 14:39	7/10/20 14:39		5	79.3	mg/L	2.50	5	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	7/6/20 12:25	7/6/20 12:25			399.51	uS/cm			FA
pH	7/6/20 12:25	7/6/20 12:25			6.69	SU			FA
Temperature	7/6/20 12:25	7/6/20 12:25			20.37	C			FA
Turbidity	7/6/20 12:25	7/6/20 12:25			2.3	NTU			FA

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

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 7/6/20 12:29
Customer ID:
Delivery Date: 7/6/20 16:33

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BA12174

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12175	Molybdenum, Total	mg/L	0.00000863	0.0001474	0.10	0.103	0.102	0.103	0.085 to 0.115	103	70 to 130	0.976	20
BA12175	Arsenic, Total	mg/L	0.0000500	0.0001474	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA12175	Lead, Total	mg/L	0.00000162	0.0001474	0.10	0.0993	0.0965	0.0985	0.085 to 0.115	99.3	70 to 130	2.86	20
BA12175	Thallium, Total	mg/L	0.00000662	0.0001474	0.10	0.102	0.0977	0.0998	0.085 to 0.115	102	70 to 130	4.31	20
BA12175	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.103	0.102	0.102	0.085 to 0.115	103	70 to 130	0.976	20
BA12175	Selenium, Total	mg/L	0.000239	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA12175	Beryllium, Total	mg/L	0.0000276	0.00088	0.10	0.0976	0.0919	0.0903	0.085 to 0.115	97.6	70 to 130	6.02	20
BA12175	Boron, Total	mg/L	0.00285	0.0650254	1.00	1.01	1.01	1.02	0.85 to 1.15	101	70 to 130	0.00	20
BA12175	Calcium, Total	mg/L	-0.000329	0.1518	5.00	5.23	5.25	5.31	4.25 to 5.75	105	70 to 130	0.382	20
BA12175	Cobalt, Total	mg/L	-0.00000094	0.0001474	0.10	0.104	0.104	0.105	0.085 to 0.115	104	70 to 130	0.00	20
BA12175	Chromium, Total	mg/L	-0.0000762	0.00044	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.00	20
BA12175	Mercury, Total by CVAA	mg/L	0.0000343	0.0005	0.004	0.00404	0.00403	0.00375	0.0034 to 0.0046	101	70 to 130	0.248	20
BA12175	Barium, Total	mg/L	-0.00000667	0.0002	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.96	20
BA12175	Lithium, Total	mg/L	0.0000453	0.0154	0.20	0.200	0.201	0.205	0.17 to 0.23	100	70 to 130	0.499	20
BA12175	Antimony, Total	mg/L	0.000419	0.00066	0.10	0.0962	0.0947	0.0991	0.085 to 0.115	96.2	70 to 130	1.57	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 7/6/20 12:29
Customer ID:
Delivery Date: 7/6/20 16:33

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BA12174

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12175	Chloride	mg/L	0.00304	0.50	10.0	10.1	0.116	10.4	9 to 11	101	80 to 120	0.00	20
BA12175	Sulfate	mg/L	-0.338	0.50	20.0	19.4	-0.372	19.6	18 to 22	97.0	80 to 120	0.00	20
BA12174	Solids, Dissolved	mg/L	0.0000	25			262	54.0	40 to 60			0.383	5
BA12175	Fluoride	mg/L	0.0269	0.05	2.50	2.54	0.0183	2.57	2.25 to 2.75	102	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 7/6/20 12:55
Customer ID:
Submittal Date: 7/6/20 16:34

Laboratory ID Number: BA12175

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: ABB***				***Preparation Method: EPA 1638***				
* Boron, Total	7/17/20 09:15	7/17/20 14:32		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	7/17/20 09:15	7/17/20 14:32		1.015	Not Detected	mg/L	0.1	0.5	U
* Lithium, Total	7/17/20 09:15	7/17/20 14:32		1.015	Not Detected	mg/L	0.01	0.02	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Selenium, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	7/8/20 10:40	7/8/20 15:33		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	7/8/20 09:13	7/9/20 13:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	7/8/20 13:40	7/10/20 12:07		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	7/9/20 14:40	7/9/20 14:40		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	7/10/20 13:21	7/10/20 13:21		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	7/10/20 14:40	7/10/20 14:40		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 7/6/20 12:55
Customer ID:
Delivery Date: 7/6/20 16:34

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA12175

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12175	Molybdenum, Total	mg/L	0.00000863	0.0001474	0.10	0.103	0.102	0.103	0.085 to 0.115	103	70 to 130	0.976	20
BA12175	Beryllium, Total	mg/L	0.0000276	0.00088	0.10	0.0976	0.0919	0.0903	0.085 to 0.115	97.6	70 to 130	6.02	20
BA12175	Boron, Total	mg/L	0.00285	0.0650254	1.00	1.01	1.01	1.02	0.85 to 1.15	101	70 to 130	0.00	20
BA12175	Barium, Total	mg/L	-0.00000667	0.0002	0.10	0.103	0.101	0.106	0.085 to 0.115	103	70 to 130	1.96	20
BA12175	Lithium, Total	mg/L	0.0000453	0.0154	0.20	0.200	0.201	0.205	0.17 to 0.23	100	70 to 130	0.499	20
BA12175	Antimony, Total	mg/L	0.000419	0.00066	0.10	0.0962	0.0947	0.0991	0.085 to 0.115	96.2	70 to 130	1.57	20
BA12175	Arsenic, Total	mg/L	0.0000500	0.0001474	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA12175	Lead, Total	mg/L	0.00000162	0.0001474	0.10	0.0993	0.0965	0.0985	0.085 to 0.115	99.3	70 to 130	2.86	20
BA12175	Thallium, Total	mg/L	0.00000662	0.0001474	0.10	0.102	0.0977	0.0998	0.085 to 0.115	102	70 to 130	4.31	20
BA12175	Calcium, Total	mg/L	-0.000329	0.1518	5.00	5.23	5.25	5.31	4.25 to 5.75	105	70 to 130	0.382	20
BA12175	Cobalt, Total	mg/L	-0.00000094	0.0001474	0.10	0.104	0.104	0.105	0.085 to 0.115	104	70 to 130	0.00	20
BA12175	Chromium, Total	mg/L	-0.0000762	0.00044	0.10	0.103	0.103	0.105	0.085 to 0.115	103	70 to 130	0.00	20
BA12175	Mercury, Total by CVAA	mg/L	0.0000343	0.0005	0.004	0.00404	0.00403	0.00375	0.0034 to 0.0046	101	70 to 130	0.248	20
BA12175	Cadmium, Total	mg/L	0.00000000	0.0001474	0.10	0.103	0.102	0.102	0.085 to 0.115	103	70 to 130	0.976	20
BA12175	Selenium, Total	mg/L	0.000239	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20

Comments:

Reported: 8/11/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 7/6/20 12:55
Customer ID:
Delivery Date: 7/6/20 16:34

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA12175

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA12175	Chloride	mg/L	0.00304	0.50	10.0	10.1	0.116	10.4	9 to 11	101	80 to 120	0.00	20
BA12174	Solids, Dissolved	mg/L	0.0000	25			262	54.0	40 to 60			0.383	5
BA12175	Fluoride	mg/L	0.0269	0.05	2.50	2.54	0.0183	2.57	2.25 to 2.75	102	80 to 120	0.00	20
BA12175	Sulfate	mg/L	-0.338	0.50	20.0	19.4	-0.372	19.6	18 to 22	97.0	80 to 120	0.00	20

Comments:

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

Definitions

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.
U	Compound was analyzed, but not detected.

Chain of Custody Groundwater

APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab

☑ Lab Complete

Lab ETA 07/06/2020 16:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	TDS	500 mL	5	N/A	N/A	7	N/A	N/A
2	Hg	250 mL	4	Anions	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
EB-1	07/06/2020	11:25	4	Equipment Blank		BA12172
MW-46HO	07/06/2020	12:29	4	Groundwater		BA12173
MW-46HO dup	07/06/2020	12:29	4	Sample Duplicate		BA12174
FB-1	07/06/2020	12:55	4	Field Blank		BA12175

Relinquished By	Received By	Date/Time
[signature]	[signature]	07/06/2020 16:14

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1284

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	0.2 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	7901-43573-2-2

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 07/06/2020 16:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	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-46HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
EB-1	07/06/2020	11:25	1	Equipment Blank		BA12176
MW-46HO	07/06/2020	12:29	3	Groundwater		BA12177
MW-46HO dup	07/06/2020	12:29	1	Sample Duplicate		BA12178
FB-1	07/06/2020	12:55	1	Field Blank		BA12179

Relinquished By	Received By	Date/Time
		07/06/2020 16:15

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1284

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	7901-43573-2-2

Bottles/Pre-Preserved Bottles are provided by the GTL

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-46HO	7/6/2020 11:45	Conductivity	503.7	uS/cm
GC-AP-MW-46HO	7/6/2020 11:45	DO	0.44	mg/L
GC-AP-MW-46HO	7/6/2020 11:45	Depth to Water Detail	14.74	ft
GC-AP-MW-46HO	7/6/2020 11:45	Oxidation Reduction Potention	162.03	mv
GC-AP-MW-46HO	7/6/2020 11:45	pH	6.64	pH
GC-AP-MW-46HO	7/6/2020 11:45	Temperature	20.64	C
GC-AP-MW-46HO	7/6/2020 11:45	Turbidity	42.9	NTU
GC-AP-MW-46HO	7/6/2020 11:50	Conductivity	441.57	uS/cm
GC-AP-MW-46HO	7/6/2020 11:50	DO	0.33	mg/L
GC-AP-MW-46HO	7/6/2020 11:50	Depth to Water Detail	14.74	ft
GC-AP-MW-46HO	7/6/2020 11:50	Oxidation Reduction Potention	159.98	mv
GC-AP-MW-46HO	7/6/2020 11:50	pH	6.67	pH
GC-AP-MW-46HO	7/6/2020 11:50	Temperature	20.77	C
GC-AP-MW-46HO	7/6/2020 11:50	Turbidity	37.9	NTU
GC-AP-MW-46HO	7/6/2020 11:55	Conductivity	417.36	uS/cm
GC-AP-MW-46HO	7/6/2020 11:55	DO	0.29	mg/L
GC-AP-MW-46HO	7/6/2020 11:55	Depth to Water Detail	14.74	ft
GC-AP-MW-46HO	7/6/2020 11:55	Oxidation Reduction Potention	158.67	mv
GC-AP-MW-46HO	7/6/2020 11:55	pH	6.69	pH
GC-AP-MW-46HO	7/6/2020 11:55	Temperature	20.63	C
GC-AP-MW-46HO	7/6/2020 11:55	Turbidity	32.2	NTU
GC-AP-MW-46HO	7/6/2020 12:00	Conductivity	404.86	uS/cm
GC-AP-MW-46HO	7/6/2020 12:00	DO	0.28	mg/L
GC-AP-MW-46HO	7/6/2020 12:00	Depth to Water Detail	14.74	ft
GC-AP-MW-46HO	7/6/2020 12:00	Oxidation Reduction Potention	156.74	mv
GC-AP-MW-46HO	7/6/2020 12:00	pH	6.7	pH
GC-AP-MW-46HO	7/6/2020 12:00	Temperature	20.49	C
GC-AP-MW-46HO	7/6/2020 12:00	Turbidity	17.1	NTU
GC-AP-MW-46HO	7/6/2020 12:05	Conductivity	407.19	uS/cm
GC-AP-MW-46HO	7/6/2020 12:05	DO	0.27	mg/L
GC-AP-MW-46HO	7/6/2020 12:05	Depth to Water Detail	14.74	ft
GC-AP-MW-46HO	7/6/2020 12:05	Oxidation Reduction Potention	155.66	mv
GC-AP-MW-46HO	7/6/2020 12:05	pH	6.71	pH
GC-AP-MW-46HO	7/6/2020 12:05	Temperature	20.38	C
GC-AP-MW-46HO	7/6/2020 12:05	Turbidity	12.2	NTU
GC-AP-MW-46HO	7/6/2020 12:10	Conductivity	411.45	uS/cm
GC-AP-MW-46HO	7/6/2020 12:10	DO	0.26	mg/L
GC-AP-MW-46HO	7/6/2020 12:10	Depth to Water Detail	14.74	ft
GC-AP-MW-46HO	7/6/2020 12:10	Oxidation Reduction Potention	154.8	mv
GC-AP-MW-46HO	7/6/2020 12:10	pH	6.69	pH
GC-AP-MW-46HO	7/6/2020 12:10	Temperature	20.53	C
GC-AP-MW-46HO	7/6/2020 12:10	Turbidity	9.08	NTU
GC-AP-MW-46HO	7/6/2020 12:15	Conductivity	408.32	uS/cm
GC-AP-MW-46HO	7/6/2020 12:15	DO	0.25	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-46HO	7/6/2020 12:15	Depth to Water Detail	14.74	ft
GC-AP-MW-46HO	7/6/2020 12:15	Oxidation Reduction Potention	154.11	mv
GC-AP-MW-46HO	7/6/2020 12:15	pH	6.7	pH
GC-AP-MW-46HO	7/6/2020 12:15	Temperature	20.34	C
GC-AP-MW-46HO	7/6/2020 12:15	Turbidity	7.33	NTU
GC-AP-MW-46HO	7/6/2020 12:20	Conductivity	406.92	uS/cm
GC-AP-MW-46HO	7/6/2020 12:20	DO	0.24	mg/L
GC-AP-MW-46HO	7/6/2020 12:20	Depth to Water Detail	14.74	ft
GC-AP-MW-46HO	7/6/2020 12:20	Oxidation Reduction Potention	153.29	mv
GC-AP-MW-46HO	7/6/2020 12:20	pH	6.68	pH
GC-AP-MW-46HO	7/6/2020 12:20	Temperature	20.53	C
GC-AP-MW-46HO	7/6/2020 12:20	Turbidity	4.23	NTU
GC-AP-MW-46HO	7/6/2020 12:25	Conductivity	399.51	uS/cm
GC-AP-MW-46HO	7/6/2020 12:25	DO	0.24	mg/L
GC-AP-MW-46HO	7/6/2020 12:25	Depth to Water Detail	14.74	ft
GC-AP-MW-46HO	7/6/2020 12:25	Oxidation Reduction Potention	151.49	mv
GC-AP-MW-46HO	7/6/2020 12:25	pH	6.69	pH
GC-AP-MW-46HO	7/6/2020 12:25	Temperature	20.37	C
GC-AP-MW-46HO	7/6/2020 12:25	Turbidity	2.3	NTU

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

2020 Compliance Event 2

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).

Dead ants were noticed on the water level meter probe after recording water level measurements at PZ-4.

Due to low yield, well MW-37H was sampled using the Minimal Purge Method, defined in the 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

Alabama Power

Sample Group : WMWGREAP_1290

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 : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

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

Alabama Power

September 29, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between August 12, 2020 and August 20, 2020. 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, 2021

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2020.09.29 14:14:17 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2020.10.01 12:23:30 -05'00'

NELAP ACCREDITED TNI LABORATORY

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.

Alabama Power Lab & Field SERVICES

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

Case Narrative

Alabama Power

Total Metals ICP

Greene County Ash Pond

WMWGREAP_1290

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.

Sample ID	Batch ID	Project ID
BA14861	680340	WMWGREAP_1290
BA14862	680340	WMWGREAP_1290
BA14863	680340	WMWGREAP_1290
BA14864	680340	WMWGREAP_1290
BA14865	680340	WMWGREAP_1290
BA14866	680340	WMWGREAP_1290
BA14867	680340	WMWGREAP_1290
BA14868	680340	WMWGREAP_1290
BA15085	680371	WMWGREAP_1290
BA15086	680371	WMWGREAP_1290
BA15087	680371	WMWGREAP_1290
BA15088	680371	WMWGREAP_1290
BA15089	680371	WMWGREAP_1290
BA15090	680371	WMWGREAP_1290
BA15091	680371	WMWGREAP_1290
BA15092	680371	WMWGREAP_1290
BA15093	680371	WMWGREAP_1290
BA15094	680371	WMWGREAP_1290
BA15095	680372	WMWGREAP_1290
BA15096	680372	WMWGREAP_1290
BA15097	680372	WMWGREAP_1290
BA15098	680372	WMWGREAP_1290
BA15099	680372	WMWGREAP_1290
BA15100	680372	WMWGREAP_1290
BA15445	680372	WMWGREAP_1290
BA15446	680372	WMWGREAP_1290
BA15447	680372	WMWGREAP_1290
BA15448	680372	WMWGREAP_1290
BA15449	680373	WMWGREAP_1290
BA15450	680373	WMWGREAP_1290
BA15451	680373	WMWGREAP_1290

BA15452	680373	WMWGREAP_1290
BA15453	680373	WMWGREAP_1290
BA15454	680373	WMWGREAP_1290
BA15455	680373	WMWGREAP_1290
BA15456	680373	WMWGREAP_1290
BA15457	680373	WMWGREAP_1290
BA15458	680373	WMWGREAP_1290
BA15459	680374	WMWGREAP_1290
BA15460	680374	WMWGREAP_1290
BA15461	680374	WMWGREAP_1290
BA15462	680374	WMWGREAP_1290
BA15463	680374	WMWGREAP_1290
BA15464	680374	WMWGREAP_1290
BA15465	680374	WMWGREAP_1290
BA15466	680374	WMWGREAP_1290
BA15688	680374	WMWGREAP_1290
BA15689	680374	WMWGREAP_1290
BA15690	680375	WMWGREAP_1290
BA15691	680375	WMWGREAP_1290
BA15692	680375	WMWGREAP_1290
BA15693	680375	WMWGREAP_1290
BA15694	680375	WMWGREAP_1290
BA15695	680375	WMWGREAP_1290
BA15696	680375	WMWGREAP_1290
BA15697	680375	WMWGREAP_1290
BA15698	680375	WMWGREAP_1290
BA15699	680375	WMWGREAP_1290

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 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.
- 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:
    - BA14868 Ca, Fe, and Na MS/MSD spike levels were less than 30% of sample nominal concentrations.
    - BA15458 Fe MS/MSD spike level was less than 30% of sample nominal concentration.
    - BA15689 Fe and Ca MS/MSD spike levels were less than 30% of sample nominal 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:

Sample ID	Analyte	Dilution Factor
BA14862	Ca, Fe	101.5
BA14864	Ca, Fe	101.5
BA14865	Na	10.15
BA14866	Ca, Fe	10.15
BA14867	Ca, Fe	10.15
BA14868	Ca, Fe, Na	10.15
BA15085	Ca, Fe	20.3
BA15086	Ca, Fe	20.3
BA15087	Ca, Fe	20.3
BA15088	Ca	10.15
BA15091	Ca, Fe	20.3
BA15094	Ca	10.15
BA15095	Ca	10.15
BA15096	Ca	10.15
BA15097	Ca, Na, Fe	10.15
BA15445	Ca	10.15
BA15454	Ca, Fe	10.15
BA15455	Ca, Fe, Na	101.5
BA15456	Ca, Fe, Na	101.5
BA15457	Ca, Fe	20.3
BA15458	Ca, Fe	20.3
BA15459	Ca	10.15
BA15460	Ca	10.15
BA15463	Ca, Fe	10.15
BA15464	Ca	10.15
BA15688	Ca, Fe	10.15
BA15689	Ca, Fe, Na	10.15
BA15690	Ca, Na	10.15
BA15691	Ca, Na	10.15
BA15692	Ca, Na	10.15
BA15693	Ca, Fe, Na	10.15
BA15695	Ca, Fe	101.5
BA15696	Ca	10.15
BA15698	Ca, Fe	10.15

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

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

Case Narrative

Alabama Power

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1290

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.

Sample ID	Batch ID	Project ID
BA14861	680114	WMWGREAP_1290
BA14862	680114	WMWGREAP_1290
BA14863	680114	WMWGREAP_1290
BA14864	680114	WMWGREAP_1290
BA14865	680114	WMWGREAP_1290
BA14866	680114	WMWGREAP_1290
BA14867	680114	WMWGREAP_1290
BA14868	680114	WMWGREAP_1290
BA15085	680114	WMWGREAP_1290
BA15086	680114	WMWGREAP_1290
BA15087	680115	WMWGREAP_1290
BA15088	680115	WMWGREAP_1290
BA15089	680115	WMWGREAP_1290
BA15090	680115	WMWGREAP_1290
BA15091	680115	WMWGREAP_1290
BA15092	680115	WMWGREAP_1290
BA15094	680115	WMWGREAP_1290
BA15095	680115	WMWGREAP_1290
BA15096	680115	WMWGREAP_1290
BA15097	680115	WMWGREAP_1290
BA15098	680116	WMWGREAP_1290
BA15099	680116	WMWGREAP_1290
BA15445	680116	WMWGREAP_1290
BA15446	680116	WMWGREAP_1290
BA15448	680116	WMWGREAP_1290
BA15449	680116	WMWGREAP_1290
BA15450	680116	WMWGREAP_1290
BA15451	680116	WMWGREAP_1290
BA15452	680116	WMWGREAP_1290
BA15453	680116	WMWGREAP_1290
BA15454	680117	WMWGREAP_1290

BA15455	680117	WMWGREAP_1290
BA15456	680117	WMWGREAP_1290
BA15457	680117	WMWGREAP_1290
BA15458	680117	WMWGREAP_1290
BA15459	680117	WMWGREAP_1290
BA15460	680117	WMWGREAP_1290
BA15461	680117	WMWGREAP_1290
BA15462	680117	WMWGREAP_1290
BA15463	680117	WMWGREAP_1290
BA15464	680118	WMWGREAP_1290
BA15466	680118	WMWGREAP_1290
BA15688	680118	WMWGREAP_1290
BA15689	680118	WMWGREAP_1290
BA15690	680118	WMWGREAP_1290
BA15691	680118	WMWGREAP_1290
BA15692	680118	WMWGREAP_1290
BA15693	680118	WMWGREAP_1290
BA15695	680118	WMWGREAP_1290
BA15696	680118	WMWGREAP_1290
BA15697	680119	WMWGREAP_1290
BA15698	680119	WMWGREAP_1290

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 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 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:
    - BA15086, BA15097, BA15463, and BA15698 Fe MS/MSD spike levels were less than 30% of the sample nominal 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:

Sample ID	Analyte	Dilution Factor
BA14862	Iron	101.5
BA14864	Iron	101.5
BA14866	Iron	101.5
BA14867	Iron	10.15
BA14868	Iron	101.5
BA15085	Iron	101.5
BA15086	Iron	101.5
BA15087	Iron	101.5
BA15091	Iron	101.5
BA15097	Iron	10.15
BA15454	Iron	101.5
BA15455	Iron	101.5
BA15456	Iron	101.5
BA15457	Iron	101.5
BA15458	Iron	101.5
BA15463	Iron	10.15
BA15688	Iron	10.15
BA15689	Iron	10.15
BA15693	Iron	10.15
BA15695	Iron	101.5
BA15698	Iron	10.15

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

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

Case Narrative

Alabama Power

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1290

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.

Sample ID	Batch ID	Project ID
BA14861	681017	WMWGREAP_1290
BA14862	681017	WMWGREAP_1290
BA14863	681017	WMWGREAP_1290
BA14864	681017	WMWGREAP_1290
BA14865	681017	WMWGREAP_1290
BA14866	681017	WMWGREAP_1290
BA14867	681017	WMWGREAP_1290
BA14868	681017	WMWGREAP_1290
BA15085	681017	WMWGREAP_1290
BA15086	681017	WMWGREAP_1290
BA15087	681018	WMWGREAP_1290
BA15088	681018	WMWGREAP_1290
BA15089	681018	WMWGREAP_1290
BA15090	681018	WMWGREAP_1290
BA15091	681018	WMWGREAP_1290
BA15092	681018	WMWGREAP_1290
BA15093	681018	WMWGREAP_1290
BA15094	681018	WMWGREAP_1290
BA15095	681018	WMWGREAP_1290
BA15096	681018	WMWGREAP_1290
BA15097	681019	WMWGREAP_1290
BA15098	681019	WMWGREAP_1290
BA15099	681019	WMWGREAP_1290
BA15100	681019	WMWGREAP_1290
BA15445	681019	WMWGREAP_1290
BA15446	681019	WMWGREAP_1290
BA15447	681019	WMWGREAP_1290
BA15448	681019	WMWGREAP_1290
BA15449	681019	WMWGREAP_1290
BA15450	681019	WMWGREAP_1290
BA15451	681020	WMWGREAP_1290

BA15452	681020	WMWGREAP_1290
BA15453	681020	WMWGREAP_1290
BA15454	681020	WMWGREAP_1290
BA15455	681020	WMWGREAP_1290
BA15456	681020	WMWGREAP_1290
BA15457	681020	WMWGREAP_1290
BA15458	681020	WMWGREAP_1290
BA15459	681020	WMWGREAP_1290
BA15460	681020	WMWGREAP_1290
BA15461	681021	WMWGREAP_1290
BA15462	681021	WMWGREAP_1290
BA15463	681021	WMWGREAP_1290
BA15464	681021	WMWGREAP_1290
BA15465	681021	WMWGREAP_1290
BA15466	681021	WMWGREAP_1290
BA15688	681021	WMWGREAP_1290
BA15689	681021	WMWGREAP_1290
BA15690	681021	WMWGREAP_1290
BA15691	681021	WMWGREAP_1290
BA15692	681022	WMWGREAP_1290
BA15693	681022	WMWGREAP_1290
BA15694	681022	WMWGREAP_1290
BA15695	681022	WMWGREAP_1290
BA15696	681022	WMWGREAP_1290
BA15697	681022	WMWGREAP_1290
BA15698	681022	WMWGREAP_1290
BA15699	681022	WMWGREAP_1290

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.

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:
    - BA15096, BA15460, & BA15691 Mn MS/MSD spike levels were less than 30% of sample nominal 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:

Sample ID	Analyte	Dilution Factor
BA14862	Mn	10.15
BA14864	Mn	5.075
BA14866	Mn	5.075
BA14867	Mn	5.075
BA14868	Mn	5.075
BA15085	Mn	5.075
BA15086	Mn	5.075
BA15087	Mn	5.075
BA15088	Mn	10.15
BA15091	Mn	5.075
BA15094	Mn	5.075
BA15095	Mn	5.075
BA15096	Mn	5.075
BA15097	Mn	5.075
BA15445	Mn	5.075
BA15454	Mn	10.15
BA15455	Mn	92.365
BA15456	Mn	92.365
BA15457	Mn	10.15
BA15459	Mn	5.075
BA15460	Mn	5.075
BA15462	Mn	10.15
BA15463	Mn	10.15
BA15688	Mn	5.075
BA15689	Mn	10.15
BA15691	Mn	5.075
BA15693	Mn	10.15
BA15695	Mn	10.15
BA15697	Mn	5.075
BA15698	Mn	10.15

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

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

Case Narrative

Alabama Power

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1290

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.

Sample ID	Batch ID	Project ID
BA14861	680894	WMWGREAP_1290
BA14862	680894	WMWGREAP_1290
BA14863	680894	WMWGREAP_1290
BA14864	680894	WMWGREAP_1290
BA14865	680894	WMWGREAP_1290
BA14866	680894	WMWGREAP_1290
BA14867	680894	WMWGREAP_1290
BA14868	680894	WMWGREAP_1290
BA15085	680894	WMWGREAP_1290
BA15086	680894	WMWGREAP_1290
BA15087	680895	WMWGREAP_1290
BA15088	680895	WMWGREAP_1290
BA15089	680895	WMWGREAP_1290
BA15090	680895	WMWGREAP_1290
BA15091	680895	WMWGREAP_1290
BA15092	680895	WMWGREAP_1290
BA15094	680895	WMWGREAP_1290
BA15095	680895	WMWGREAP_1290
BA15096	680895	WMWGREAP_1290
BA15097	680895	WMWGREAP_1290
BA15098	680896	WMWGREAP_1290
BA15099	680896	WMWGREAP_1290
BA15445	680896	WMWGREAP_1290
BA15446	680896	WMWGREAP_1290
BA15448	680896	WMWGREAP_1290
BA15449	680896	WMWGREAP_1290
BA15450	680896	WMWGREAP_1290
BA15451	680896	WMWGREAP_1290
BA15452	680896	WMWGREAP_1290
BA15453	680896	WMWGREAP_1290
BA15454	680897	WMWGREAP_1290

BA15455	680897	WMWGREAP_1290
BA15456	680897	WMWGREAP_1290
BA15457	680897	WMWGREAP_1290
BA15458	680897	WMWGREAP_1290
BA15459	680897	WMWGREAP_1290
BA15460	680897	WMWGREAP_1290
BA15461	680897	WMWGREAP_1290
BA15462	680897	WMWGREAP_1290
BA15463	680897	WMWGREAP_1290
BA15464	680898	WMWGREAP_1290
BA15466	680898	WMWGREAP_1290
BA15688	680898	WMWGREAP_1290
BA15689	680898	WMWGREAP_1290
BA15690	680898	WMWGREAP_1290
BA15691	680898	WMWGREAP_1290
BA15692	680898	WMWGREAP_1290
BA15693	680898	WMWGREAP_1290
BA15695	680898	WMWGREAP_1290
BA15696	680898	WMWGREAP_1290
BA15697	680899	WMWGREAP_1290
BA15698	680899	WMWGREAP_1290

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.

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:
    - BA15086, BA15097, BA15463, and BA15698 Mn MS/MSD spike levels were less than 30% of the sample nominal 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:

Sample ID	Analyte	Dilution Factor
BA14862	Mn	10.15
BA14864	Mn	5.075
BA14866	Mn	5.075
BA14867	Mn	5.075
BA14868	Mn	5.075
BA15085	Mn	5.075
BA15086	Mn	5.075
BA15087	Mn	5.075
BA15088	Mn	10.15
BA15091	Mn	5.075
BA15094	Mn	5.075
BA15095	Mn	5.075
BA15096	Mn	5.075
BA15097	Mn	5.075
BA15445	Mn	5.075
BA15454	Mn	10.15
BA15455	Mn	92.365
BA15456	Mn	92.365
BA15457	Mn	10.15
BA15459	Mn	5.075
BA15460	Mn	5.075
BA15462	Mn	10.15
BA15463	Mn	10.15
BA15688	Mn	5.075
BA15689	Mn	10.15
BA15691	Mn	5.075
BA15693	Mn	10.15
BA15695	Mn	10.15
BA15697	Mn	5.075
BA15698	Mn	10.15

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

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

Case Narrative

Alabama Power

Mercury

Greene County Ash Pond

WMWGREAP_1290

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.

Sample ID	Batch ID	Project ID
BA14861	679371	WMWGREAP_1290
BA14862	679371	WMWGREAP_1290
BA14863	679371	WMWGREAP_1290
BA14864	679371	WMWGREAP_1290
BA14865	679371	WMWGREAP_1290
BA14866	679371	WMWGREAP_1290
BA14867	679371	WMWGREAP_1290
BA14868	679371	WMWGREAP_1290
BA15085	679651	WMWGREAP_1290
BA15086	679651	WMWGREAP_1290
BA15087	679651	WMWGREAP_1290
BA15088	679651	WMWGREAP_1290
BA15089	679651	WMWGREAP_1290
BA15090	679651	WMWGREAP_1290
BA15091	679651	WMWGREAP_1290
BA15092	679651	WMWGREAP_1290
BA15093	679651	WMWGREAP_1290
BA15094	679651	WMWGREAP_1290
BA15095	679652	WMWGREAP_1290
BA15096	679652	WMWGREAP_1290
BA15097	679652	WMWGREAP_1290
BA15098	679652	WMWGREAP_1290
BA15099	679652	WMWGREAP_1290
BA15100	679652	WMWGREAP_1290
BA15445	680184	WMWGREAP_1290
BA15446	680184	WMWGREAP_1290
BA15447	680184	WMWGREAP_1290
BA15448	680184	WMWGREAP_1290
BA15449	680184	WMWGREAP_1290
BA15450	680184	WMWGREAP_1290
BA15451	680184	WMWGREAP_1290

BA15452	680184	WMWGREAP_1290
BA15453	680184	WMWGREAP_1290
BA15454	680184	WMWGREAP_1290
BA15455	680185	WMWGREAP_1290
BA15456	680185	WMWGREAP_1290
BA15457	680185	WMWGREAP_1290
BA15458	680185	WMWGREAP_1290
BA15459	680185	WMWGREAP_1290
BA15460	680185	WMWGREAP_1290
BA15461	680185	WMWGREAP_1290
BA15462	680185	WMWGREAP_1290
BA15463	680185	WMWGREAP_1290
BA15464	680185	WMWGREAP_1290
BA15465	680186	WMWGREAP_1290
BA15466	680186	WMWGREAP_1290
BA15688	680186	WMWGREAP_1290
BA15689	680186	WMWGREAP_1290
BA15690	680186	WMWGREAP_1290
BA15691	680186	WMWGREAP_1290
BA15692	680186	WMWGREAP_1290
BA15693	680186	WMWGREAP_1290
BA15694	680186	WMWGREAP_1290
BA15695	680186	WMWGREAP_1290
BA15696	680187	WMWGREAP_1290
BA15697	680187	WMWGREAP_1290
BA15698	680187	WMWGREAP_1290
BA15699	680187	WMWGREAP_1290

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

Case Narrative

TDS

Greene County Ash Pond

WMWGREAP_1290

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.

Sample ID	Batch ID	Project ID
BA14861	679307	WMWGREAP_1290
BA14862	679307	WMWGREAP_1290
BA14863	679307	WMWGREAP_1290
BA14864	679307	WMWGREAP_1290
BA14865	679307	WMWGREAP_1290
BA14866	679307	WMWGREAP_1290
BA14867	679307	WMWGREAP_1290
BA14868	679307	WMWGREAP_1290
BA15085	679532	WMWGREAP_1290
BA15086	679532	WMWGREAP_1290
BA15087	679532	WMWGREAP_1290
BA15088	679532	WMWGREAP_1290
BA15089	679532	WMWGREAP_1290
BA15090	679532	WMWGREAP_1290
BA15091	679532	WMWGREAP_1290
BA15092	679532	WMWGREAP_1290
BA15093	679532	WMWGREAP_1290
BA15094	679532	WMWGREAP_1290
BA15095	679533	WMWGREAP_1290
BA15096	679533	WMWGREAP_1290
BA15097	679533	WMWGREAP_1290
BA15098	679533	WMWGREAP_1290
BA15099	679533	WMWGREAP_1290
BA15100	679533	WMWGREAP_1290
BA15445	679988	WMWGREAP_1290
BA15446	679988	WMWGREAP_1290
BA15447	679989	WMWGREAP_1290
BA15448	679989	WMWGREAP_1290
BA15449	679989	WMWGREAP_1290
BA15450	680139	WMWGREAP_1290
BA15451	680139	WMWGREAP_1290

BA15452	680139	WMWGREAP_1290
BA15453	680139	WMWGREAP_1290
BA15454	679989	WMWGREAP_1290
BA15455	679989	WMWGREAP_1290
BA15456	679989	WMWGREAP_1290
BA15457	679989	WMWGREAP_1290
BA15458	679989	WMWGREAP_1290
BA15459	679989	WMWGREAP_1290
BA15460	679989	WMWGREAP_1290
BA15461	680139	WMWGREAP_1290
BA15462	680139	WMWGREAP_1290
BA15463	680139	WMWGREAP_1290
BA15464	680139	WMWGREAP_1290
BA15465	680139	WMWGREAP_1290
BA15466	680139	WMWGREAP_1290
BA15688	680140	WMWGREAP_1290
BA15689	680140	WMWGREAP_1290
BA15690	680140	WMWGREAP_1290
BA15691	680140	WMWGREAP_1290
BA15692	680140	WMWGREAP_1290
BA15693	680140	WMWGREAP_1290
BA15694	680140	WMWGREAP_1290
BA15695	680140	WMWGREAP_1290
BA15696	680140	WMWGREAP_1290
BA15697	680140	WMWGREAP_1290
BA15698	680148	WMWGREAP_1290
BA15699	680148	WMWGREAP_1290

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- 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:
    - BA15093
    - BA15100
    - BA15447
    - BA15465
    - BA15694
    - BA15699

Case Narrative

Anions

Greene County Ash Pond

WMWGREAP_1290

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.

Sample ID	Batch ID	Project ID
BA14861	679609, 679980, & 680231	WMWGREAP_1290
BA14862	679609, 679980, & 680231	WMWGREAP_1290
BA14863	679609, 679980, & 680231	WMWGREAP_1290
BA14864	679609, 679980, & 680231	WMWGREAP_1290
BA14865	679609, 679980, & 680231	WMWGREAP_1290
BA14866	679609, 679980, & 680231	WMWGREAP_1290
BA14867	679609, 679980, & 680231	WMWGREAP_1290
BA14868	679609, 679980, & 680231	WMWGREAP_1290
BA15085	679609, 679980, & 680231	WMWGREAP_1290
BA15086	679609, 679980, & 680231	WMWGREAP_1290
BA15087	679610, 679981, & 680232	WMWGREAP_1290
BA15088	679610, 679981, & 680232	WMWGREAP_1290
BA15089	679610, 679981, & 680232	WMWGREAP_1290
BA15090	679610, 679981, & 680232	WMWGREAP_1290
BA15091	679610, 679981, & 680232	WMWGREAP_1290
BA15092	679610, 679981, & 680232	WMWGREAP_1290
BA15093	679610, 679981, & 680232	WMWGREAP_1290
BA15094	679610, 679981, & 680232	WMWGREAP_1290
BA15095	679610, 679981, & 680232	WMWGREAP_1290
BA15096	679610, 679981, & 680232	WMWGREAP_1290
BA15097	679628, 679982, & 680233	WMWGREAP_1290
BA15098	679628, 679982, & 680233	WMWGREAP_1290
BA15099	679628, 679982, & 680233	WMWGREAP_1290
BA15100	679628, 679982, & 680233	WMWGREAP_1290
BA15445	680107, 679982, & 680233	WMWGREAP_1290
BA15446	680107, 679982, & 680233	WMWGREAP_1290
BA15447	680107, 679982, & 680233	WMWGREAP_1290
BA15448	680107, 679982, & 680233	WMWGREAP_1290
BA15449	680107, 679982, & 680233	WMWGREAP_1290
BA15450	680107, 679982, & 680233	WMWGREAP_1290
BA15451	680107, 679983, & 680234	WMWGREAP_1290

BA15452	680107, 679983, & 680234	WMWGREAP_1290
BA15453	680107, 679983, & 680234	WMWGREAP_1290
BA15454	680107, 679983, & 680234	WMWGREAP_1290
BA15455	680108, 679983, & 680234	WMWGREAP_1290
BA15456	680108, 679983, & 680234	WMWGREAP_1290
BA15457	680108, 679983, & 680234	WMWGREAP_1290
BA15458	680108, 679983, & 680234	WMWGREAP_1290
BA15459	680108, 679983, & 680234	WMWGREAP_1290
BA15460	680108, 679983, & 680234	WMWGREAP_1290
BA15461	680108, 679984, & 680235	WMWGREAP_1290
BA15462	680108, 679984, & 680235	WMWGREAP_1290
BA15463	680108, 679984, & 680235	WMWGREAP_1290
BA15464	680108, 679984, & 680235	WMWGREAP_1290
BA15465	680109, 679984, & 680235	WMWGREAP_1290
BA15466	680109, 679984, & 680235	WMWGREAP_1290
BA15688	680109, 680105, & 680235	WMWGREAP_1290
BA15689	680109, 680105, & 680235	WMWGREAP_1290
BA15690	680109, 680105, & 680235	WMWGREAP_1290
BA15691	680109, 680105, & 680235	WMWGREAP_1290
BA15692	680109, 680105, & 680236	WMWGREAP_1290
BA15693	680109, 680105, & 680236	WMWGREAP_1290
BA15694	680109, 680105, & 680236	WMWGREAP_1290
BA15695	680109, 680105, & 680236	WMWGREAP_1290
BA15696	680110, 680105, & 680236	WMWGREAP_1290
BA15697	680110, 680105, & 680236	WMWGREAP_1290
BA15698	680110, 680106, & 680236	WMWGREAP_1290
BA15699	680110, 680106, & 680236	WMWGREAP_1290

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 half the limit of quantitation for the requested analyte, except for the following:
    - The CCB for Fluoride batch 679982 was greater than half the RL but less than the MDL. The batch was reanalyzed with similar CCB results. Samples BA15097, BA15099, & BA15445 are qualified due to Fluoride results were detected.
- 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. 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:

Sample ID	Analyte	Dilution Factor
BA14862	Sulfate	16
BA14863	Sulfate	4
BA14864	Chloride	2
BA14866	Sulfate	4
BA14867	Sulfate	4
BA14868	Sulfate	4

BA15085	Sulfate	10
BA15086	Sulfate	32
BA15087	Sulfate	16
BA15088	Sulfate	25
BA15091	Sulfate	8
BA15094	Sulfate	20
BA15095	Sulfate	20
BA15096	Sulfate	20
BA15097	Chloride	2
BA15098	Sulfate	5
BA15445	Sulfate	8
BA15446	Sulfate	4
BA15454	Sulfate	32
BA15455	Chloride & Sulfate	2 & 40
BA15456	Chloride & Sulfate	2 & 40
BA15457	Sulfate	32
BA15458	Chloride	2
BA15459	Sulfate	5
BA15460	Sulfate	8
BA15461	Sulfate	4
BA15462	Sulfate	5
BA15463	Chloride & Sulfate	2 & 3
BA15464	Sulfate	16
BA15688	Sulfate	4
BA15689	Chloride & Sulfate	2 & 8
BA15690	Chloride & Sulfate	4 & 10
BA15691	Chloride & Sulfate	8 & 5
BA15692	Chloride & Sulfate	10 & 20
BA15693	Chloride & Sulfate	4 & 4
BA15695	Sulfate	25
BA15696	Sulfate	4
BA15697	Sulfate	4
BA15698	Sulfate	4

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

Alkalinity

Greene County Ash Pond

WMWGREAP_1290

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.

Sample ID	Batch ID	Project ID
BA14861	680212 & 680213	WMWGREAP_1290
BA14862	680212 & 680213	WMWGREAP_1290
BA14863	680212 & 680213	WMWGREAP_1290
BA14864	680212 & 680213	WMWGREAP_1290
BA14865	680212 & 680213	WMWGREAP_1290
BA14866	680212 & 680213	WMWGREAP_1290
BA14867	680212 & 680213	WMWGREAP_1290
BA14868	680212 & 680213	WMWGREAP_1290
BA15085	680212 & 680213	WMWGREAP_1290
BA15086	680212 & 680213	WMWGREAP_1290
BA15087	680212 & 680213	WMWGREAP_1290
BA15088	680212 & 680213	WMWGREAP_1290
BA15089	680212 & 680213	WMWGREAP_1290
BA15090	680212 & 680213	WMWGREAP_1290
BA15091	680212 & 680213	WMWGREAP_1290
BA15092	680212 & 680213	WMWGREAP_1290
BA15094	680212 & 680213	WMWGREAP_1290
BA15095	680212 & 680213	WMWGREAP_1290
BA15096	680212 & 680213	WMWGREAP_1290
BA15097	680212 & 680213	WMWGREAP_1290
BA15098	680435 & 680436	WMWGREAP_1290
BA15099	680435 & 680436	WMWGREAP_1290
BA15445	680435 & 680436	WMWGREAP_1290
BA15446	680435 & 680436	WMWGREAP_1290
BA15448	680435 & 680436	WMWGREAP_1290
BA15449	680435 & 680436	WMWGREAP_1290
BA15450	680435 & 680436	WMWGREAP_1290
BA15451	680435 & 680436	WMWGREAP_1290
BA15452	680435 & 680436	WMWGREAP_1290
BA15453	680435 & 680436	WMWGREAP_1290
BA15454	680435 & 680436	WMWGREAP_1290

BA15455	680435 & 680436	WMWGREAP_1290
BA15456	680435 & 680436	WMWGREAP_1290
BA15457	680435 & 680436	WMWGREAP_1290
BA15458	680435 & 680436	WMWGREAP_1290
BA15459	680435 & 680436	WMWGREAP_1290
BA15460	680435 & 680436	WMWGREAP_1290
BA15461	680435 & 680436	WMWGREAP_1290
BA15462	680435 & 680436	WMWGREAP_1290
BA15463	680435 & 680436	WMWGREAP_1290
BA15464	680415 & 680416	WMWGREAP_1290
BA15466	680415 & 680416	WMWGREAP_1290
BA15688	680415 & 680416	WMWGREAP_1290
BA15689	680415 & 680416	WMWGREAP_1290
BA15690	680415 & 680416	WMWGREAP_1290
BA15691	680415 & 680416	WMWGREAP_1290
BA15692	680415 & 680416	WMWGREAP_1290
BA15693	680415 & 680416	WMWGREAP_1290
BA15695	680415 & 680416	WMWGREAP_1290
BA15696	680415 & 680416	WMWGREAP_1290
BA15697	680415 & 680416	WMWGREAP_1290
BA15698	680415 & 680416	WMWGREAP_1290

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were analyzed within the established hold times, except for the following:
    a. BA14861-62 & BA14865-67 were analyzed hours outside of hold time.
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.

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP
Collected: 8/11/20 10:58
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14861

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 10:21		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 10:21		1.015	7.46	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 10:21		1.015	0.0582	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 10:21		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 10:21		1.015	1.21	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 10:21		1.015	6.03	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 11:10		1.015	0.0466	mg/L	0.02	0.05	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 14:38		1.015	0.0264	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 14:38		1.015	1.11	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 14:38		1.015	0.00865	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 14:38		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 14:33		1.015	0.00869	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	28.9	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	52.0	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-31

Location Code: WMWGREAP
Collected: 8/11/20 10:58
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14861

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	28.9	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:32	8/17/20 14:32		1	5.45	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 11:56	8/20/20 11:56		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:16	8/25/20 11:16		1	4.33	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/11/20 10:55	8/11/20 10:55			70.47	uS/cm			FA
pH	8/11/20 10:55	8/11/20 10:55			5.63	SU			FA
Temperature	8/11/20 10:55	8/11/20 10:55			18.75	C			FA
Turbidity	8/11/20 10:55	8/11/20 10:55			1.12	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 10:58
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BA14861

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA14868	Calcium, Total	mg/L	0.0103	0.1518	5.00	77.2	79.8	5.13	4.25 to 5.75	84.0	70 to 130	3.31	20
BA14868	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	27.5	27.4	5.17	4.25 to 5.75	102	70 to 130	0.364	20
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20
BA14868	Boron, Total	mg/L	0.000908	0.0650254	1.00	3.05	3.04	1.02	0.85 to 1.15	102	70 to 130	0.328	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20
BA14868	Iron, Total	mg/L	0.00226	0.0176	0.2	27.8	28.5	0.208	0.17 to 0.23	50.0	70 to 130	2.49	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA14868	Mercury, Total by CVAA	mg/L	0.000130	0.0005	0.004	0.00341	0.00349	0.00379	0.0034 to 0.0046	85.2	70 to 130	2.32	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20
BA14868	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.766	0.765	0.194	0.17 to 0.23	107	70 to 130	0.131	20
BA14868	Sodium, Total	mg/L	0.00223	0.044	5.00	74.7	77.1	5.33	4.25 to 5.75	88.0	70 to 130	3.16	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 10:58
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-31

Laboratory ID Number: BA14861

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14868	Solids, Dissolved	mg/L	2.00	25			522	51.0	40 to 60			0.00	5
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 8/11/20 12:40
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14862

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 10:23		1.015	1.44	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 11:00		101.5	118	mg/L	10.15	50.75	
* Iron, Total	8/20/20 14:40	8/21/20 11:00		101.5	53.6	mg/L	2.03	5.075	
* Lithium, Total	8/20/20 14:40	8/21/20 10:23		1.015	0.712	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 10:23		1.015	28.4	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 10:23		1.015	36.1	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:44		101.5	54.4	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 14:41		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 14:41		1.015	0.0207	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 14:41		1.015	0.0806	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 14:41		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 14:41		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 14:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 14:41		1.015	0.0373	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 14:41		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 14:41		1.015	0.0117	mg/L	0.002	0.01	
* Potassium, Total	8/24/20 08:28	8/24/20 14:41		1.015	11.0	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 14:22		10.15	5.12	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 14:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 14:41		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 16:39		10.15	4.96	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	246	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	688	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-14

Location Code: WMWGREAP
Collected: 8/11/20 12:40
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14862

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	246	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.05	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:33	8/17/20 14:33		1	12.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 11:57	8/20/20 11:57		1	0.278	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:17	8/25/20 11:17		16	242	mg/L	8.00	16	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/11/20 12:37	8/11/20 12:37			984.33	uS/cm			FA
pH	8/11/20 12:37	8/11/20 12:37			6.02	SU			FA
Temperature	8/11/20 12:37	8/11/20 12:37			20.92	C			FA
Turbidity	8/11/20 12:37	8/11/20 12:37			2.16	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 12:40
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BA14862

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA14868	Calcium, Total	mg/L	0.0103	0.1518	5.00	77.2	79.8	5.13	4.25 to 5.75	84.0	70 to 130	3.31	20
BA14868	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	27.5	27.4	5.17	4.25 to 5.75	102	70 to 130	0.364	20
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20
BA14868	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.766	0.765	0.194	0.17 to 0.23	107	70 to 130	0.131	20
BA14868	Sodium, Total	mg/L	0.00223	0.044	5.00	74.7	77.1	5.33	4.25 to 5.75	88.0	70 to 130	3.16	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20
BA14868	Boron, Total	mg/L	0.000908	0.0650254	1.00	3.05	3.04	1.02	0.85 to 1.15	102	70 to 130	0.328	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20
BA14868	Iron, Total	mg/L	0.00226	0.0176	0.2	27.8	28.5	0.208	0.17 to 0.23	50.0	70 to 130	2.49	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA14868	Mercury, Total by CVAA	mg/L	0.000130	0.0005	0.004	0.00341	0.00349	0.00379	0.0034 to 0.0046	85.2	70 to 130	2.32	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 12:40
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-14

Laboratory ID Number: BA14862

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA14868	Solids, Dissolved	mg/L	2.00	25			522	51.0	40 to 60			0.00	5
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 8/11/20 14:31
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14863

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 10:26		1.015	0.110	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 10:26		1.015	10.7	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 10:26		1.015	0.838	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 10:26		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 10:26		1.015	9.68	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 10:26		1.015	33.2	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 11:16		1.015	0.749	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 14:44		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 14:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 14:44		1.015	0.111	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 14:44		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 14:44		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 14:44		1.015	0.0126	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 14:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 14:44		1.015	0.772	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 14:44		1.015	0.304	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 14:44		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 14:38		1.015	0.273	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	29.0	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	193	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-25

Location Code: WMWGREAP
Collected: 8/11/20 14:31
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14863

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	29.0	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:34	8/17/20 14:34		1	16.7	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 11:59	8/20/20 11:59		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:18	8/25/20 11:18		4	79.5	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/11/20 14:28	8/11/20 14:28			286.17	uS/cm			FA
pH	8/11/20 14:28	8/11/20 14:28			4.81	SU			FA
Temperature	8/11/20 14:28	8/11/20 14:28			21.37	C			FA
Turbidity	8/11/20 14:28	8/11/20 14:28			1.84	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 14:31
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BA14863

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA14868	Calcium, Total	mg/L	0.0103	0.1518	5.00	77.2	79.8	5.13	4.25 to 5.75	84.0	70 to 130	3.31	20
BA14868	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	27.5	27.4	5.17	4.25 to 5.75	102	70 to 130	0.364	20
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20
BA14868	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.766	0.765	0.194	0.17 to 0.23	107	70 to 130	0.131	20
BA14868	Sodium, Total	mg/L	0.00223	0.044	5.00	74.7	77.1	5.33	4.25 to 5.75	88.0	70 to 130	3.16	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20
BA14868	Boron, Total	mg/L	0.000908	0.0650254	1.00	3.05	3.04	1.02	0.85 to 1.15	102	70 to 130	0.328	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20
BA14868	Iron, Total	mg/L	0.00226	0.0176	0.2	27.8	28.5	0.208	0.17 to 0.23	50.0	70 to 130	2.49	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA14868	Mercury, Total by CVAA	mg/L	0.000130	0.0005	0.004	0.00341	0.00349	0.00379	0.0034 to 0.0046	85.2	70 to 130	2.32	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 14:31
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-25

Laboratory ID Number: BA14863

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14868	Solids, Dissolved	mg/L	2.00	25			522	51.0	40 to 60			0.00	5
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP
Collected: 8/11/20 15:44
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14864

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 10:29		1.015	0.493	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 11:03		101.5	92.8	mg/L	10.15	50.75	
* Iron, Total	8/20/20 14:40	8/21/20 11:03		101.5	58.7	mg/L	2.03	5.075	
* Lithium, Total	8/20/20 14:40	8/21/20 10:29		1.015	0.0125	mg/L	0.01	0.02	J
* Magnesium, Total	8/20/20 14:40	8/21/20 10:29		1.015	7.14	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 10:29		1.015	26.3	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:47		101.5	59.3	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 14:47		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 14:47		1.015	0.0869	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 14:47		1.015	0.246	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 14:47		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 14:47		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 14:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 14:47		1.015	0.0859	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 14:47		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 14:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 14:47		1.015	2.14	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/25/20 14:24		5.075	3.10	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 14:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 14:47		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 16:42		5.075	3.07	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	320	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	434	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-53H

Location Code: WMWGREAP
Collected: 8/11/20 15:44
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14864

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	320	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.06	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:36	8/17/20 14:36		2	21.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:00	8/20/20 12:00		1	0.133	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:19	8/25/20 11:19		1	12.6	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/11/20 15:41	8/11/20 15:41			715.39	uS/cm			FA
pH	8/11/20 15:41	8/11/20 15:41			5.80	SU			FA
Temperature	8/11/20 15:41	8/11/20 15:41			22.26	C			FA
Turbidity	8/11/20 15:41	8/11/20 15:41			4.01	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 15:44
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BA14864

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA14868	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.766	0.765	0.194	0.17 to 0.23	107	70 to 130	0.131	20
BA14868	Sodium, Total	mg/L	0.00223	0.044	5.00	74.7	77.1	5.33	4.25 to 5.75	88.0	70 to 130	3.16	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20
BA14868	Mercury, Total by CVAA	mg/L	0.000130	0.0005	0.004	0.00341	0.00349	0.00379	0.0034 to 0.0046	85.2	70 to 130	2.32	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20
BA14868	Boron, Total	mg/L	0.000908	0.0650254	1.00	3.05	3.04	1.02	0.85 to 1.15	102	70 to 130	0.328	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20
BA14868	Iron, Total	mg/L	0.00226	0.0176	0.2	27.8	28.5	0.208	0.17 to 0.23	50.0	70 to 130	2.49	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA14868	Calcium, Total	mg/L	0.0103	0.1518	5.00	77.2	79.8	5.13	4.25 to 5.75	84.0	70 to 130	3.31	20
BA14868	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	27.5	27.4	5.17	4.25 to 5.75	102	70 to 130	0.364	20
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 15:44
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-53H

Laboratory ID Number: BA14864

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14868	Solids, Dissolved	mg/L	2.00	25			522	51.0	40 to 60			0.00	5
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 8/11/20 10:45
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14865

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 10:32		1.015	0.145	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 10:32		1.015	1.06	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 10:32		1.015	0.451	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 10:32		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 10:32		1.015	0.118	mg/L	0.1	0.5	J
* Sodium, Total	8/20/20 14:40	8/21/20 11:06		10.15	66.1	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 11:22		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 14:49		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 14:49		1.015	0.00223	mg/L	0.001	0.005	J
* Barium, Total	8/24/20 08:28	8/24/20 14:49		1.015	0.00393	mg/L	0.002	0.01	J
* Beryllium, Total	8/24/20 08:28	8/24/20 14:49		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 14:49		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 14:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 14:49		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 14:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 14:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 14:49		1.015	0.581	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 14:49		1.015	0.00392	mg/L	0.001	0.005	J
* Selenium, Total	8/24/20 08:28	8/24/20 14:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 14:49		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 14:43		1.015	0.00185	mg/L	0.001	0.005	J
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	133	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	184	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-36H

Location Code: WMWGREAP
Collected: 8/11/20 10:45
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14865

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	132	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.86	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:37	8/17/20 14:37		1	3.28	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:01	8/20/20 12:01		1	0.325	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:20	8/25/20 11:20		1	8.73	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/11/20 10:44	8/11/20 10:44			296.35	uS/cm			FA
pH	8/11/20 10:44	8/11/20 10:44			7.69	SU			FA
Temperature	8/11/20 10:44	8/11/20 10:44			22.97	C			FA
Turbidity	8/11/20 10:44	8/11/20 10:44			9.51	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 10:45
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BA14865

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA14868	Calcium, Total	mg/L	0.0103	0.1518	5.00	77.2	79.8	5.13	4.25 to 5.75	84.0	70 to 130	3.31	20
BA14868	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	27.5	27.4	5.17	4.25 to 5.75	102	70 to 130	0.364	20
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20
BA14868	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.766	0.765	0.194	0.17 to 0.23	107	70 to 130	0.131	20
BA14868	Sodium, Total	mg/L	0.00223	0.044	5.00	74.7	77.1	5.33	4.25 to 5.75	88.0	70 to 130	3.16	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20
BA14868	Iron, Total	mg/L	0.00226	0.0176	0.2	27.8	28.5	0.208	0.17 to 0.23	50.0	70 to 130	2.49	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA14868	Boron, Total	mg/L	0.000908	0.0650254	1.00	3.05	3.04	1.02	0.85 to 1.15	102	70 to 130	0.328	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20
BA14868	Mercury, Total by CVAA	mg/L	0.000130	0.0005	0.004	0.00341	0.00349	0.00379	0.0034 to 0.0046	85.2	70 to 130	2.32	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 10:45
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-36H

Laboratory ID Number: BA14865

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14868	Solids, Dissolved	mg/L	2.00	25			522	51.0	40 to 60			0.00	5
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 8/11/20 12:40
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14866

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 10:35		1.015	1.84	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 11:09		10.15	111	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 11:09		10.15	28.4	mg/L	0.203	0.5075	
* Lithium, Total	8/20/20 14:40	8/21/20 10:35		1.015	0.470	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 10:35		1.015	25.6	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 10:35		1.015	37.7	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:50		101.5	26.5	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 14:52		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 14:52		1.015	0.0635	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 14:52		1.015	0.177	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 14:52		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 14:52		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 14:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 14:52		1.015	0.0176	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 14:52		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 14:52		1.015	0.00401	mg/L	0.002	0.01	J
* Potassium, Total	8/24/20 08:28	8/24/20 14:52		1.015	13.0	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 14:27		5.075	3.56	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 14:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 14:52		1.015	0.000814	mg/L	0.0002	0.001	J
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 16:45		5.075	3.46	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	396	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	526	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-39H

Location Code: WMWGREAP
Collected: 8/11/20 12:40
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14866

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	396	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.13	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:38	8/17/20 14:38		1	7.85	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:02	8/20/20 12:02		1	0.494	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:22	8/25/20 11:22		4	51.7	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/11/20 12:34	8/11/20 12:34			737.40	uS/cm			FA
pH	8/11/20 12:34	8/11/20 12:34			6.70	SU			FA
Temperature	8/11/20 12:34	8/11/20 12:34			20.18	C			FA
Turbidity	8/11/20 12:34	8/11/20 12:34			6.32	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 12:40
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BA14866

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20
BA14868	Mercury, Total by CVAA	mg/L	0.000130	0.0005	0.004	0.00341	0.00349	0.00379	0.0034 to 0.0046	85.2	70 to 130	2.32	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20
BA14868	Iron, Total	mg/L	0.00226	0.0176	0.2	27.8	28.5	0.208	0.17 to 0.23	50.0	70 to 130	2.49	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA14868	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.766	0.765	0.194	0.17 to 0.23	107	70 to 130	0.131	20
BA14868	Sodium, Total	mg/L	0.00223	0.044	5.00	74.7	77.1	5.33	4.25 to 5.75	88.0	70 to 130	3.16	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20
BA14868	Boron, Total	mg/L	0.000908	0.0650254	1.00	3.05	3.04	1.02	0.85 to 1.15	102	70 to 130	0.328	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20
BA14868	Calcium, Total	mg/L	0.0103	0.1518	5.00	77.2	79.8	5.13	4.25 to 5.75	84.0	70 to 130	3.31	20
BA14868	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	27.5	27.4	5.17	4.25 to 5.75	102	70 to 130	0.364	20
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 12:40
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-39H

Laboratory ID Number: BA14866

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14868	Solids, Dissolved	mg/L	2.00	25			522	51.0	40 to 60			0.00	5
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 8/11/20 13:55
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14867

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 10:38		1.015	1.93	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 11:13		10.15	101	mg/L	1.01	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 11:13		10.15	16.0	mg/L	0.203	0.5075	
* Lithium, Total	8/20/20 14:40	8/21/20 10:38		1.015	0.599	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 10:38		1.015	25.1	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 10:38		1.015	39.5	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:53		10.15	14.8	mg/L	0.203	0.5075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 14:54		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 14:54		1.015	0.0698	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 14:54		1.015	0.0948	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 14:54		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 14:54		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 14:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 14:54		1.015	0.0148	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 14:54		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 14:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 14:54		1.015	13.3	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 14:30		5.075	2.77	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 14:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 14:54		1.015	0.000329	mg/L	0.0002	0.001	J
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 16:47		5.075	2.74	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	361	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	482	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-16

Location Code: WMWGREAP
Collected: 8/11/20 13:55
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14867

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	361	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.12	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:39	8/17/20 14:39		1	12.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:03	8/20/20 12:03		1	0.294	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:23	8/25/20 11:23		4	55.0	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/11/20 13:51	8/11/20 13:51			644.98	uS/cm			FA
pH	8/11/20 13:51	8/11/20 13:51			6.70	SU			FA
Temperature	8/11/20 13:51	8/11/20 13:51			20.11	C			FA
Turbidity	8/11/20 13:51	8/11/20 13:51			8.79	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 13:55
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BA14867

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA14868	Calcium, Total	mg/L	0.0103	0.1518	5.00	77.2	79.8	5.13	4.25 to 5.75	84.0	70 to 130	3.31	20
BA14868	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	27.5	27.4	5.17	4.25 to 5.75	102	70 to 130	0.364	20
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20
BA14868	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.766	0.765	0.194	0.17 to 0.23	107	70 to 130	0.131	20
BA14868	Sodium, Total	mg/L	0.00223	0.044	5.00	74.7	77.1	5.33	4.25 to 5.75	88.0	70 to 130	3.16	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20
BA14868	Mercury, Total by CVAA	mg/L	0.000130	0.0005	0.004	0.00341	0.00349	0.00379	0.0034 to 0.0046	85.2	70 to 130	2.32	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20
BA14868	Iron, Total	mg/L	0.00226	0.0176	0.2	27.8	28.5	0.208	0.17 to 0.23	50.0	70 to 130	2.49	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20
BA14868	Boron, Total	mg/L	0.000908	0.0650254	1.00	3.05	3.04	1.02	0.85 to 1.15	102	70 to 130	0.328	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 13:55
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-16

Laboratory ID Number: BA14867

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14868	Solids, Dissolved	mg/L	2.00	25			522	51.0	40 to 60			0.00	5
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 8/11/20 15:35
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14868

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 10:44		1.015	2.03	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 11:19		10.15	73.0	mg/L	1.015	5.075	RA
* Iron, Total	8/20/20 14:40	8/21/20 11:19		10.15	27.7	mg/L	0.203	0.5075	RA
* Lithium, Total	8/20/20 14:40	8/21/20 10:44		1.015	0.552	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 10:44		1.015	22.4	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 11:19		10.15	70.3	mg/L	1.015	5.075	RA
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:55		101.5	26.4	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 14:57		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 14:57		1.015	0.581	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 14:57		1.015	0.290	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 14:57		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 14:57		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 14:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 14:57		1.015	0.0122	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 14:57		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 14:57		1.015	0.0506	mg/L	0.002	0.01	
* Potassium, Total	8/24/20 08:28	8/24/20 14:57		1.015	12.5	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 14:32		5.075	1.93	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 14:57		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 14:57		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 16:50		5.075	1.84	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	402	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	522	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-17

Location Code: WMWGREAP
Collected: 8/11/20 15:35
Customer ID:
Submittal Date: 8/12/20 12:06

Laboratory ID Number: BA14868

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	402	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.16	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:40	8/17/20 14:40		1	15.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:05	8/20/20 12:05		1	0.515	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:24	8/25/20 11:24		4	46.7	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/11/20 15:32	8/11/20 15:32			663.04	uS/cm			FA
pH	8/11/20 15:32	8/11/20 15:32			6.71	SU			FA
Temperature	8/11/20 15:32	8/11/20 15:32			20.65	C			FA
Turbidity	8/11/20 15:32	8/11/20 15:32			8.86	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 15:35
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BA14868

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA14868	Mercury, Total by CVAA	mg/L	0.000130	0.0005	0.004	0.00341	0.00349	0.00379	0.0034 to 0.0046	85.2	70 to 130	2.32	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20
BA14868	Boron, Total	mg/L	0.000908	0.0650254	1.00	3.05	3.04	1.02	0.85 to 1.15	102	70 to 130	0.328	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20
BA14868	Iron, Total	mg/L	0.00226	0.0176	0.2	27.8	28.5	0.208	0.17 to 0.23	50.0	70 to 130	2.49	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA14868	Calcium, Total	mg/L	0.0103	0.1518	5.00	77.2	79.8	5.13	4.25 to 5.75	84.0	70 to 130	3.31	20
BA14868	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	27.5	27.4	5.17	4.25 to 5.75	102	70 to 130	0.364	20
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20
BA14868	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.766	0.765	0.194	0.17 to 0.23	107	70 to 130	0.131	20
BA14868	Sodium, Total	mg/L	0.00223	0.044	5.00	74.7	77.1	5.33	4.25 to 5.75	88.0	70 to 130	3.16	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 15:35
Customer ID:
Delivery Date: 8/12/20 12:06

Description: Greene County Ash Pond - MW-17

Laboratory ID Number: BA14868

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14868	Solids, Dissolved	mg/L	2.00	25			522	51.0	40 to 60			0.00	5
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP
Collected: 8/12/20 08:44
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15085

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:23		1.015	0.760	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:22		20.3	101	mg/L	2.03	10.15	
* Iron, Total	8/20/20 14:40	8/21/20 13:22		20.3	47.4	mg/L	0.406	1.015	
* Lithium, Total	8/20/20 14:40	8/21/20 12:23		1.015	0.105	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 12:23		1.015	21.4	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:23		1.015	24.7	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:58		101.5	45.0	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:00		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:00		1.015	0.467	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 15:00		1.015	0.221	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:00		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:00		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:00		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:00		1.015	0.0272	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 15:00		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:00		1.015	0.00278	mg/L	0.002	0.01	J
* Potassium, Total	8/24/20 08:28	8/24/20 15:00		1.015	6.72	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 14:35		5.075	1.99	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 15:00		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:00		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 16:53		5.075	1.88	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	205	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	497	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-54H

Location Code: WMWGREAP
Collected: 8/12/20 08:44
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15085

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	205	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.08	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:42	8/17/20 14:42		1	10.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:06	8/20/20 12:06		1	0.275	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:25	8/25/20 11:25		10	180	mg/L	5.00	10	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/12/20 08:40	8/12/20 08:40			778.42	uS/cm			FA
pH	8/12/20 08:40	8/12/20 08:40			6.67	SU			FA
Temperature	8/12/20 08:40	8/12/20 08:40			21.21	C			FA
Turbidity	8/12/20 08:40	8/12/20 08:40			4.24	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 08:44
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BA15085

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 08:44
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-54H

Laboratory ID Number: BA15085

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP
Collected: 8/12/20 09:41
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15086

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:26		1.015	0.338	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:25		20.3	79.1	mg/L	2.03	10.15	
* Iron, Total	8/20/20 14:40	8/21/20 13:25		20.3	68.2	mg/L	0.406	1.015	
* Lithium, Total	8/20/20 14:40	8/21/20 12:26		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 12:26		1.015	22.6	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:26		1.015	21.0	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:01		101.5	62.7	mg/L	2.03	5.075	RA
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:02		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:02		1.015	0.0467	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 15:02		1.015	0.0796	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:02		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:02		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:02		1.015	0.0857	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 15:02		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:02		1.015	6.15	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 14:38		5.075	3.51	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 15:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:02		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 16:55		5.075	3.38	mg/L	0.005075	0.025375	RA
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	84.8	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	491	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-57H

Location Code: WMWGREAP
Collected: 8/12/20 09:41
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15086

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	84.8	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.01	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:43	8/17/20 14:43		1	6.30	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:07	8/20/20 12:07		1	0.165	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:26	8/25/20 11:26		32	274	mg/L	16.00	32	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/12/20 09:38	8/12/20 09:38			747.63	uS/cm			FA
pH	8/12/20 09:38	8/12/20 09:38			6.48	SU			FA
Temperature	8/12/20 09:38	8/12/20 09:38			20.67	C			FA
Turbidity	8/12/20 09:38	8/12/20 09:38			2.18	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 09:41
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BA15086

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15086	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0950	0.0969	0.0999	0.085 to 0.115	95.0	70 to 130	1.98	20
BA15086	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0961	0.0961	0.0991	0.085 to 0.115	96.1	70 to 130	0.00	20
BA15086	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0976	0.0976	0.108	0.085 to 0.115	97.6	70 to 130	0.00	20
BA15086	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.178	0.180	0.0985	0.085 to 0.115	92.3	70 to 130	1.12	20
BA15086	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0948	0.0924	0.0889	0.085 to 0.115	94.8	70 to 130	2.56	20
BA15086	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0945	0.0950	0.0993	0.085 to 0.115	94.5	70 to 130	0.528	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15086	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.0952	0.103	0.0992	0.085 to 0.115	95.2	70 to 130	7.87	20
BA15086	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0932	0.0940	0.0980	0.085 to 0.115	93.2	70 to 130	0.855	20
BA15086	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0948	0.0953	0.0956	0.085 to 0.115	94.8	70 to 130	0.526	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15086	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.139	0.138	0.106	0.085 to 0.115	92.3	70 to 130	0.722	20
BA15086	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	3.60	3.59	0.0978	0.085 to 0.115	90.0	70 to 130	0.278	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20
BA15086	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.175	0.174	0.0965	0.085 to 0.115	95.4	70 to 130	0.573	20
BA15086	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	62.7	62.8	0.206	0.17 to 0.23	0.00	70 to 130	0.159	20
BA15086	Potassium, Total	mg/L	-0.000912	0.3674	10.0	16.1	16.0	9.90	8.5 to 11.5	99.5	70 to 130	0.623	20
BA15086	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	3.51	3.52	0.0949	0.085 to 0.115	130	70 to 130	0.284	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 09:41
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-57H

Laboratory ID Number: BA15086

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15086	Sulfate	mg/L	-0.399	0.50	640	885	274	19.0	18 to 22	95.5	80 to 120	0.00	20
BA15086	Chloride	mg/L	0.0261	0.50	10.0	16.4	6.28	10.0	9 to 11	101	80 to 120	0.318	20
BA15086	Fluoride	mg/L	0.0362	0.05	2.50	2.77	0.160	2.61	2.25 to 2.75	104	80 to 120	3.08	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-57H DUP

Location Code: WMWGREAP
Collected: 8/12/20 09:41
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15087

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:29		1.015	0.342	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:28		20.3	79.0	mg/L	2.03	10.15	
* Iron, Total	8/20/20 14:40	8/21/20 13:28		20.3	67.8	mg/L	0.406	1.015	
* Lithium, Total	8/20/20 14:40	8/21/20 12:29		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 12:29		1.015	22.8	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:29		1.015	21.1	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:10		101.5	62.4	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:18		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:18		1.015	0.0467	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 15:18		1.015	0.0809	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:18		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:18		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:18		1.015	0.0859	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 15:18		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:18		1.015	6.08	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 14:53		5.075	3.48	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 15:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:18		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:11		5.075	3.36	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	84.2	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	499	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-57H DUP

Location Code: WMWGREAP
Collected: 8/12/20 09:41
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15087

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	84.2	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.01	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:54	8/17/20 14:54		1	6.25	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:19	8/20/20 12:19		1	0.176	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:40	8/25/20 11:40		16	260	mg/L	8.00	16	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/12/20 09:38	8/12/20 09:38			747.63	uS/cm			FA
pH	8/12/20 09:38	8/12/20 09:38			6.48	SU			FA
Temperature	8/12/20 09:38	8/12/20 09:38			20.67	C			FA
Turbidity	8/12/20 09:38	8/12/20 09:38			2.18	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 09:41
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-57H DUP

Laboratory ID Number: BA15087

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 09:41
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-57H DUP

Laboratory ID Number: BA15087

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 8/12/20 10:45
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15088

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:32		1.015	0.197	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:31		10.15	173	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 12:32		1.015	2.81	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 12:32		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 12:32		1.015	19.8	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:32		1.015	28.7	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 11:55		1.015	3.26	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:21		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:21		1.015	0.00197	mg/L	0.001	0.005	J
* Barium, Total	8/24/20 08:28	8/24/20 15:21		1.015	0.0589	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:21		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:21		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:21		1.015	0.273	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 15:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:21		1.015	2.67	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 14:56		10.15	12.5	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 15:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:21		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:14		10.15	12.1	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	98.8	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	728	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-44H

Location Code: WMWGREAP
Collected: 8/12/20 10:45
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15088

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	98.8	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.03	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:56	8/17/20 14:56		1	10.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:20	8/20/20 12:20		1	0.0867	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:41	8/25/20 11:41		25	415	mg/L	12.50	25	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/12/20 10:41	8/12/20 10:41			918.45	uS/cm			FA
pH	8/12/20 10:41	8/12/20 10:41			6.27	SU			FA
Temperature	8/12/20 10:41	8/12/20 10:41			19.67	C			FA
Turbidity	8/12/20 10:41	8/12/20 10:41			2.97	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 10:45
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BA15088

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 10:45
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-44H

Laboratory ID Number: BA15088

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 8/12/20 11:52
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:35		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 12:35		1.015	9.48	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 12:35		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 12:35		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 12:35		1.015	0.667	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:35		1.015	3.89	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 11:58		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 15:23		1.015	0.0127	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:23		1.015	0.717	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Selenium, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:23		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 15:17		1.015	Not Detected	mg/L	0.001	0.005	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	25.8	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	49.3	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-32

Location Code: WMWGREAP
Collected: 8/12/20 11:52
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	25.8	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:57	8/17/20 14:57		1	4.17	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:21	8/20/20 12:21		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:42	8/25/20 11:42		1	2.54	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/12/20 11:48	8/12/20 11:48			63.32	uS/cm			FA
pH	8/12/20 11:48	8/12/20 11:48			5.84	SU			FA
Temperature	8/12/20 11:48	8/12/20 11:48			19.85	C			FA
Turbidity	8/12/20 11:48	8/12/20 11:48			2.7	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 11:52
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BA15089

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 11:52
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-32

Laboratory ID Number: BA15089

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 8/12/20 13:04
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15090

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:38		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 12:38		1.015	1.78	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 12:38		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 12:38		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 12:38		1.015	2.20	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:38		1.015	10.5	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:01		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 15:26		1.015	0.0601	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:26		1.015	3.15	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/24/20 15:26		1.015	0.0144	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:26		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 15:20		1.015	0.0139	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	1.00	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	62.0	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-33

Location Code: WMWGREAP
Collected: 8/12/20 13:04
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15090

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	1.00	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:58	8/17/20 14:58		1	4.46	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:22	8/20/20 12:22		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:43	8/25/20 11:43		1	13.6	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/12/20 13:01	8/12/20 13:01			93.00	uS/cm			FA
pH	8/12/20 13:01	8/12/20 13:01			4.65	SU			FA
Temperature	8/12/20 13:01	8/12/20 13:01			18.95	C			FA
Turbidity	8/12/20 13:01	8/12/20 13:01			1.44	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 13:04
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BA15090

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 13:04
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-33

Laboratory ID Number: BA15090

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 8/12/20 14:12
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:41		1.015	0.695	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:34		20.3	92.2	mg/L	2.03	10.15	
* Iron, Total	8/20/20 14:40	8/21/20 13:34		20.3	32.6	mg/L	0.406	1.015	
* Lithium, Total	8/20/20 14:40	8/21/20 12:41		1.015	0.132	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 12:41		1.015	17.4	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:41		1.015	24.6	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:13		101.5	30.5	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:29		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:29		1.015	0.415	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 15:29		1.015	0.134	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:29		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:29		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:29		1.015	0.00678	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 15:29		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:29		1.015	0.00292	mg/L	0.002	0.01	J
* Potassium, Total	8/24/20 08:28	8/24/20 15:29		1.015	6.74	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 14:59		5.075	1.86	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 15:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:29		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:16		5.075	1.70	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	205	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	433	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-5

Location Code: WMWGREAP
Collected: 8/12/20 14:12
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	205	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.08	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 14:59	8/17/20 14:59		1	13.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:23	8/20/20 12:23		1	0.221	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:44	8/25/20 11:44		8	132	mg/L	4.00	8	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/12/20 14:09	8/12/20 14:09			651.10	uS/cm			FA
pH	8/12/20 14:09	8/12/20 14:09			6.36	SU			FA
Temperature	8/12/20 14:09	8/12/20 14:09			21.71	C			FA
Turbidity	8/12/20 14:09	8/12/20 14:09			2.07	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 14:12
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BA15091

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 14:12
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-5

Laboratory ID Number: BA15091

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 8/12/20 15:24
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15092

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:44		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 12:44		1.015	9.68	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 12:44		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 12:44		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 12:44		1.015	1.82	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:44		1.015	5.72	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:07		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:31		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:31		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 15:31		1.015	0.0467	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:31		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:31		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:31		1.015	0.00222	mg/L	0.002	0.005	J
* Lead, Total	8/24/20 08:28	8/24/20 15:31		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:31		1.015	1.19	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 15:31		1.015	0.00908	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 15:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:31		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 15:25		1.015	0.00775	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	21.6	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	66.0	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-34HA

Location Code: WMWGREAP
Collected: 8/12/20 15:24
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15092

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	21.6	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 15:00	8/17/20 15:00		1	2.07	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:25	8/20/20 12:25		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:46	8/25/20 11:46		1	13.5	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/12/20 15:20	8/12/20 15:20			84.72	uS/cm			FA
pH	8/12/20 15:20	8/12/20 15:20			4.78	SU			FA
Temperature	8/12/20 15:20	8/12/20 15:20			22.53	C			FA
Turbidity	8/12/20 15:20	8/12/20 15:20			1.85	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 15:24
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BA15092

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 15:24
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond - MW-34HA

Laboratory ID Number: BA15092

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-2

Location Code: WMWGREAPFB
Collected: 8/12/20 15:50
Customer ID:
Submittal Date: 8/13/20 11:37

Laboratory ID Number: BA15093

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:47		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 12:47		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 12:47		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 12:47		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 12:47		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 12:47		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:34		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/17/20 15:02	8/17/20 15:02		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/20/20 12:26	8/20/20 12:26		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 11:47	8/25/20 11:47		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 8/12/20 15:50
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BA15093

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 8/12/20 15:50
Customer ID:
Delivery Date: 8/13/20 11:37

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BA15093

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 8/12/20 09:45
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15094

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:50		1.015	0.807	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:37		10.15	115	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 12:50		1.015	0.277	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 12:50		1.015	0.669	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 12:50		1.015	29.8	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:50		1.015	34.7	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:10		1.015	0.264	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:37		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 15:37		1.015	0.0295	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:37		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:37		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:37		1.015	0.00717	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 15:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:37		1.015	10.8	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:01		5.075	2.27	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 15:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:37		1.015	0.000208	mg/L	0.0002	0.001	J
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:19		5.075	2.21	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	152	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	588	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-40H

Location Code: WMWGREAP
Collected: 8/12/20 09:45
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15094

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	152	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.03	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 15:03	8/17/20 15:03		1	8.34	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:27	8/20/20 12:27		1	0.145	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:48	8/25/20 11:48		20	285	mg/L	10.00	20	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/12/20 09:42	8/12/20 09:42			918.16	uS/cm			FA
pH	8/12/20 09:42	8/12/20 09:42			5.83	SU			FA
Temperature	8/12/20 09:42	8/12/20 09:42			19.10	C			FA
Turbidity	8/12/20 09:42	8/12/20 09:42			1.86	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 09:45
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BA15094

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20
BA15093	Mercury, Total by CVAA	mg/L	0.0000505	0.0005	0.004	0.00381	0.00390	0.00382	0.0034 to 0.0046	95.2	70 to 130	2.33	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20
BA15094	Calcium, Total	mg/L	0.00000919	0.1518	5.00	120	121	5.18	4.25 to 5.75	100	70 to 130	0.830	20
BA15094	Iron, Total	mg/L	0.00132	0.0176	0.2	0.476	0.476	0.208	0.17 to 0.23	99.5	70 to 130	0.00	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15094	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.84	1.84	1.01	0.85 to 1.15	103	70 to 130	0.00	20
BA15094	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.876	0.885	0.190	0.17 to 0.23	104	70 to 130	1.02	20
BA15094	Sodium, Total	mg/L	0.0143	0.044	5.00	40.2	40.3	5.21	4.25 to 5.75	110	70 to 130	0.248	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20
BA15094	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	35.1	34.9	5.16	4.25 to 5.75	106	70 to 130	0.571	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 09:45
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-40H

Laboratory ID Number: BA15094

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20
BA15094	Solids, Dissolved	mg/L	1.00	25			592	50.0	40 to 60			0.339	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-40H DUP

Location Code: WMWGREAP
Collected: 8/12/20 09:45
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15095

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:04		1.015	0.812	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:46		10.15	115	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 13:04		1.015	0.280	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 13:04		1.015	0.658	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 13:04		1.015	30.0	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 13:04		1.015	34.8	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:13		1.015	0.258	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:39		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 15:39		1.015	0.0273	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:39		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:39		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:39		1.015	0.00713	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 15:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:39		1.015	10.6	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:04		5.075	2.27	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 15:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:39		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:22		5.075	2.24	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	154	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	586	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-40H DUP

Location Code: WMWGREAP
Collected: 8/12/20 09:45
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15095

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	154	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.03	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 15:04	8/17/20 15:04		1	8.49	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:28	8/20/20 12:28		1	0.144	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:49	8/25/20 11:49		20	288	mg/L	10.00	20	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/12/20 09:42	8/12/20 09:42			918.16	uS/cm			FA
pH	8/12/20 09:42	8/12/20 09:42			5.83	SU			FA
Temperature	8/12/20 09:42	8/12/20 09:42			19.10	C			FA
Turbidity	8/12/20 09:42	8/12/20 09:42			1.86	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 09:45
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-40H DUP

Laboratory ID Number: BA15095

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15100	Mercury, Total by CVAA	mg/L	0.0000441	0.0005	0.004	0.00397	0.00388	0.00400	0.0034 to 0.0046	99.2	70 to 130	2.29	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 09:45
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-40H DUP

Laboratory ID Number: BA15095

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15096	Solids, Dissolved	mg/L	1.00	25			399	50.0	40 to 60			0.250	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 8/12/20 10:55
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15096

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:07		1.015	0.813	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:49		10.15	72.2	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 13:07		1.015	1.86	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 13:07		1.015	0.594	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 13:07		1.015	17.0	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 13:07		1.015	32.8	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:16		1.015	1.95	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 15:42		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 15:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 15:42		1.015	0.0352	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 15:42		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 15:42		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 15:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 15:42		1.015	0.0184	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 15:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 15:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 15:42		1.015	9.77	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:07		5.075	2.35	mg/L	0.005075	0.025375	RA
* Selenium, Total	8/24/20 08:28	8/24/20 15:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 15:42		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:24		5.075	2.40	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	145	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	401	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-15

Location Code: WMWGREAP
Collected: 8/12/20 10:55
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15096

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	145	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.03	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 15:05	8/17/20 15:05		1	11.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 12:29	8/20/20 12:29		1	0.147	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 11:51	8/25/20 11:51		20	160	mg/L	10.00	20	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/12/20 10:51	8/12/20 10:51			595.69	uS/cm			FA
pH	8/12/20 10:51	8/12/20 10:51			6.10	SU			FA
Temperature	8/12/20 10:51	8/12/20 10:51			19.75	C			FA
Turbidity	8/12/20 10:51	8/12/20 10:51			1.16	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 10:55
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BA15096

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15096	Arsenic, Total	mg/L	0.0000125	0.0001474	0.10	0.101	0.1000	0.106	0.085 to 0.115	101	70 to 130	0.995	20
BA15096	Thallium, Total	mg/L	0.0000159	0.0001474	0.10	0.0961	0.0983	0.0993	0.085 to 0.115	96.1	70 to 130	2.26	20
BA15096	Antimony, Total	mg/L	0.000173	0.001	0.10	0.0934	0.0959	0.0889	0.085 to 0.115	93.4	70 to 130	2.64	20
BA15096	Selenium, Total	mg/L	0.0000229	0.001	0.10	0.0993	0.101	0.108	0.085 to 0.115	99.3	70 to 130	1.70	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20
BA15096	Chromium, Total	mg/L	0.0000454	0.00044	0.10	0.0941	0.0952	0.0980	0.085 to 0.115	94.1	70 to 130	1.16	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15096	Molybdenum, Total	mg/L	0.0000126	0.0001474	0.10	0.0977	0.0986	0.0991	0.085 to 0.115	97.7	70 to 130	0.917	20
BA15096	Lead, Total	mg/L	0.0000174	0.0001474	0.10	0.0951	0.0973	0.0956	0.085 to 0.115	95.1	70 to 130	2.29	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20
BA15096	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0975	0.0975	0.0999	0.085 to 0.115	97.5	70 to 130	0.00	20
BA15096	Potassium, Total	mg/L	-0.000912	0.3674	10.0	19.7	19.5	9.90	8.5 to 11.5	99.3	70 to 130	1.02	20
BA15096	Manganese, Total	mg/L	0.0000142	0.0001474	0.10	2.50	2.43	0.0978	0.085 to 0.115	150	70 to 130	2.84	20
BA15100	Mercury, Total by CVAA	mg/L	0.0000441	0.0005	0.004	0.00397	0.00388	0.00400	0.0034 to 0.0046	99.2	70 to 130	2.29	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20
BA15096	Cobalt, Total	mg/L	0.0000034	0.0001474	0.10	0.113	0.114	0.0985	0.085 to 0.115	94.6	70 to 130	0.881	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15096	Barium, Total	mg/L	0.0000113	0.0002	0.10	0.133	0.131	0.0965	0.085 to 0.115	97.8	70 to 130	1.52	20
BA15096	Beryllium, Total	mg/L	0.0000818	0.00088	0.10	0.106	0.108	0.0992	0.085 to 0.115	106	70 to 130	1.87	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 10:55
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-15

Laboratory ID Number: BA15096

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15096	Sulfate	mg/L	-0.640	0.50	400	525	158	18.9	18 to 22	91.2	80 to 120	1.26	20
BA15096	Solids, Dissolved	mg/L	1.00	25			399	50.0	40 to 60			0.250	5
BA15096	Chloride	mg/L	0.036	0.50	10.0	21.3	11.6	10.0	9 to 11	99.0	80 to 120	1.74	20
BA15096	Fluoride	mg/L	0.0318	0.05	2.50	2.74	0.138	2.60	2.25 to 2.75	104	80 to 120	6.32	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 8/12/20 12:30
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15097

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:10		1.015	1.53	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:52		10.15	85.9	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 13:52		10.15	11.6	mg/L	0.203	0.5075	
* Lithium, Total	8/20/20 14:40	8/21/20 13:10		1.015	0.326	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 13:10		1.015	15.0	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 13:52		10.15	45.8	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:22		10.15	11.0	mg/L	0.203	0.5075	RA
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:03		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:03		1.015	0.0485	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 16:03		1.015	0.0815	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:03		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:03		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:03		1.015	0.0152	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 16:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:03		1.015	6.13	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:17		5.075	2.49	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 16:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:03		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:27		5.075	2.49	mg/L	0.005075	0.025375	RA
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 14:15	8/25/20 15:05		1	362	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	390	mg/L		25	

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. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-18

Location Code: WMWGREAP
Collected: 8/12/20 12:30
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15097

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	362	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 14:15	8/25/20 15:05		1	0.10	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 15:29	8/17/20 15:29		2	24.5	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/31/20 12:26	8/31/20 12:26		1	0.198	mg/L	0.06	0.1	B
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 12:21	8/25/20 12:21		1	13.8	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/12/20 12:27	8/12/20 12:27			654.16	uS/cm			FA
pH	8/12/20 12:27	8/12/20 12:27			6.62	SU			FA
Temperature	8/12/20 12:27	8/12/20 12:27			20.67	C			FA
Turbidity	8/12/20 12:27	8/12/20 12:27			2.69	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. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 12:30
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BA15097

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20
BA15097	Iron, Dissolved	mg/L	-0.0000140	0.0176	0.2	11.0	10.9	0.206	0.17 to 0.23	0.00	70 to 130	0.913	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15097	Manganese, Dissolved	mg/L	0.0000065	0.0001474	0.100	2.64	2.61	0.0949	0.085 to 0.115	150	70 to 130	1.14	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15100	Mercury, Total by CVAA	mg/L	0.0000441	0.0005	0.004	0.00397	0.00388	0.00400	0.0034 to 0.0046	99.2	70 to 130	2.29	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 12:30
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-18

Laboratory ID Number: BA15097

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15100	Chloride	mg/L	0.0402	0.50	10.0	9.90	0.0595	10.0	9 to 11	99.0	80 to 120	0.00	20
BA15097	Alkalinity, Total as CaCO3	mg/L					364	48.7	45.0 to 55.0			0.551	10
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20
BA15096	Solids, Dissolved	mg/L	1.00	25			399	50.0	40 to 60			0.250	5
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP
Collected: 8/12/20 14:15
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15098

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:13		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 13:13		1.015	35.8	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 13:13		1.015	0.0278	mg/L	0.02	0.05	J
* Lithium, Total	8/20/20 14:40	8/21/20 13:13		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 13:13		1.015	5.14	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 13:13		1.015	2.75	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:46		1.015	0.0360	mg/L	0.02	0.05	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:06		1.015	0.0788	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:06		1.015	1.58	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 16:06		1.015	0.0850	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:06		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 15:56		1.015	0.0770	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 12:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	14.7	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	165	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-24

Location Code: WMWGREAP
Collected: 8/12/20 14:15
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15098

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	14.7	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 15:23	8/17/20 15:23		1	4.14	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/31/20 12:28	8/31/20 12:28		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 12:22	8/25/20 12:22		5	82.2	mg/L	2.50	5	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/12/20 14:11	8/12/20 14:11			245.21	uS/cm			FA
pH	8/12/20 14:11	8/12/20 14:11			5.04	SU			FA
Temperature	8/12/20 14:11	8/12/20 14:11			21.49	C			FA
Turbidity	8/12/20 14:11	8/12/20 14:11			1.03	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 14:15
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BA15098

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20
BA15100	Mercury, Total by CVAA	mg/L	0.0000441	0.0005	0.004	0.00397	0.00388	0.00400	0.0034 to 0.0046	99.2	70 to 130	2.29	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 14:15
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-24

Laboratory ID Number: BA15098

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15100	Chloride	mg/L	0.0402	0.50	10.0	9.90	0.0595	10.0	9 to 11	99.0	80 to 120	0.00	20
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15096	Solids, Dissolved	mg/L	1.00	25			399	50.0	40 to 60			0.250	5
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP
Collected: 8/12/20 15:35
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15099

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:16		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 13:16		1.015	28.0	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 13:16		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 13:16		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 13:16		1.015	2.04	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 13:16		1.015	2.41	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:49		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:08		1.015	0.0311	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:08		1.015	0.828	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.001	0.005	U
* Selenium, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:08		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 15:59		1.015	Not Detected	mg/L	0.001	0.005	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 13:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	82.7	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	96.0	mg/L		25	

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. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-23

Location Code: WMWGREAP
Collected: 8/12/20 15:35
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15099

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	82.7	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.03	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/17/20 15:24	8/17/20 15:24		1	1.28	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/31/20 12:29	8/31/20 12:29		1	0.0867	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 12:23	8/25/20 12:23		1	10.2	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/12/20 15:31	8/12/20 15:31			169.61	uS/cm			FA
pH	8/12/20 15:31	8/12/20 15:31			6.03	SU			FA
Temperature	8/12/20 15:31	8/12/20 15:31			22.44	C			FA
Turbidity	8/12/20 15:31	8/12/20 15:31			1.27	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. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/12/20 15:35
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BA15099

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20
BA15100	Mercury, Total by CVAA	mg/L	0.0000441	0.0005	0.004	0.00397	0.00388	0.00400	0.0034 to 0.0046	99.2	70 to 130	2.29	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/12/20 15:35
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond - MW-23

Laboratory ID Number: BA15099

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15100	Chloride	mg/L	0.0402	0.50	10.0	9.90	0.0595	10.0	9 to 11	99.0	80 to 120	0.00	20
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15096	Solids, Dissolved	mg/L	1.00	25			399	50.0	40 to 60			0.250	5
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-3

Location Code: WMWGREAPFB
Collected: 8/12/20 16:00
Customer ID:
Submittal Date: 8/13/20 11:38

Laboratory ID Number: BA15100

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:19		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 13:19		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 13:19		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 13:19		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 13:19		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 13:19		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:11		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: GAS***								
* Mercury, Total by CVAA	8/19/20 11:56	8/20/20 13:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/18/20 15:30	8/20/20 11:35		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/17/20 15:25	8/17/20 15:25		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:30	8/31/20 12:30		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 12:25	8/25/20 12:25		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 8/12/20 16:00
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond Field Blank-3

Laboratory ID Number: BA15100

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15100	Mercury, Total by CVAA	mg/L	0.0000441	0.0005	0.004	0.00397	0.00388	0.00400	0.0034 to 0.0046	99.2	70 to 130	2.29	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 8/12/20 16:00
Customer ID:
Delivery Date: 8/13/20 11:38

Description: Greene County Ash Pond Field Blank-3

Laboratory ID Number: BA15100

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15100	Chloride	mg/L	0.0402	0.50	10.0	9.90	0.0595	10.0	9 to 11	99.0	80 to 120	0.00	20
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20
BA15096	Solids, Dissolved	mg/L	1.00	25			399	50.0	40 to 60			0.250	5
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP
Collected: 8/17/20 13:35
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15445

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:22		1.015	0.570	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:55		10.15	57.2	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 13:22		1.015	0.560	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 13:22		1.015	0.212	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 13:22		1.015	17.7	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 13:22		1.015	17.9	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:52		1.015	0.501	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:14		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:14		1.015	0.0632	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:14		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:14		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:14		1.015	0.00458	mg/L	0.002	0.005	J
* Lead, Total	8/24/20 08:28	8/24/20 16:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:14		1.015	0.0737	mg/L	0.002	0.01	
* Potassium, Total	8/24/20 08:28	8/24/20 16:14		1.015	4.05	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:20		5.075	3.32	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 16:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:14		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:38		5.075	3.37	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	104	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	305	mg/L		25	

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. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-45H

Location Code: WMWGREAP
Collected: 8/17/20 13:35
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15445

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	104	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.12	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:26	8/21/20 10:26		1	8.99	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/31/20 12:31	8/31/20 12:31		1	0.195	mg/L	0.06	0.1	B
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 12:26	8/25/20 12:26		8	128	mg/L	4.00	8	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/17/20 13:32	8/17/20 13:32			439.62	uS/cm			FA
pH	8/17/20 13:32	8/17/20 13:32			6.94	SU			FA
Temperature	8/17/20 13:32	8/17/20 13:32			22.76	C			FA
Turbidity	8/17/20 13:32	8/17/20 13:32			1.35	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. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/17/20 13:35
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BA15445

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/17/20 13:35
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-45H

Laboratory ID Number: BA15445

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20
BA15446	Solids, Dissolved	mg/L	0.0000	25			183	53.0	40 to 60			0.549	5
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The Fluoride result is qualified due to the CCB for batch 679982 result was greater than ½ RL, however the CCB value was less than the MDL. LBM 9/15/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP
Collected: 8/17/20 15:35
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15446

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:25		1.015	0.218	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 13:25		1.015	27.6	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 13:25		1.015	0.103	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 13:25		1.015	0.108	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 13:25		1.015	7.38	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 13:25		1.015	20.9	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:55		1.015	0.0987	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:16		1.015	0.0270	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:16		1.015	4.93	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/24/20 16:16		1.015	0.107	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:16		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 16:04		1.015	0.103	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	53.3	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	181	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-48H

Location Code: WMWGREAP
Collected: 8/17/20 15:35
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15446

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	53.3	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.01	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:36	8/21/20 10:36		1	11.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/31/20 12:33	8/31/20 12:33		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 12:27	8/25/20 12:27		4	78.0	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/17/20 15:30	8/17/20 15:30			274.85	uS/cm			FA
pH	8/17/20 15:30	8/17/20 15:30			6.24	SU			FA
Temperature	8/17/20 15:30	8/17/20 15:30			20.38	C			FA
Turbidity	8/17/20 15:30	8/17/20 15:30			0.36	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/17/20 15:35
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BA15446

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/17/20 15:35
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-48H

Laboratory ID Number: BA15446

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20
BA15446	Solids, Dissolved	mg/L	0.0000	25			183	53.0	40 to 60			0.549	5
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-4

Location Code: WMWGREAPFB
Collected: 8/17/20 16:05
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15447

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:28		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 13:28		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 13:28		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 13:28		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 13:28		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 13:28		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:19		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/21/20 10:28	8/21/20 10:28		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:34	8/31/20 12:34		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 12:28	8/25/20 12:28		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 8/17/20 16:05
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond Field Blank-4

Laboratory ID Number: BA15447

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 8/17/20 16:05
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond Field Blank-4

Laboratory ID Number: BA15447

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP
Collected: 8/18/20 08:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15448

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:31		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 13:31		1.015	4.58	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 13:31		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 13:31		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 13:31		1.015	0.680	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 13:31		1.015	3.13	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 12:58		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:22		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:22		1.015	0.0409	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:22		1.015	0.000828	mg/L	0.0006	0.003	J
* Cadmium, Total	8/24/20 08:28	8/24/20 16:22		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:22		1.015	0.00279	mg/L	0.002	0.005	J
* Lead, Total	8/24/20 08:28	8/24/20 16:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:22		1.015	0.459	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 16:22		1.015	0.172	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 16:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:22		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 16:07		1.015	0.170	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	5.28	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	42.0	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-26

Location Code: WMWGREAP
Collected: 8/18/20 08:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15448

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	5.28	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:29	8/21/20 10:29		1	2.16	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/31/20 12:35	8/31/20 12:35		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 12:29	8/25/20 12:29		1	9.57	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/18/20 08:38	8/18/20 08:38			60.95	uS/cm			FA
pH	8/18/20 08:38	8/18/20 08:38			4.79	SU			FA
Temperature	8/18/20 08:38	8/18/20 08:38			19.39	C			FA
Turbidity	8/18/20 08:38	8/18/20 08:38			0.2	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 08:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BA15448

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20
BA15448	Magnesium, Total	mg/L	-0.00178	0.0462	5.00	5.87	5.89	5.16	4.25 to 5.75	104	70 to 130	0.340	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20
BA15448	Lithium, Total	mg/L	0.0000533	0.0154	0.200	0.196	0.195	0.190	0.17 to 0.23	98.0	70 to 130	0.512	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15448	Boron, Total	mg/L	0.000284	0.0650254	1.00	1.04	1.04	1.01	0.85 to 1.15	104	70 to 130	0.00	20
BA15448	Iron, Total	mg/L	0.00132	0.0176	0.2	0.214	0.215	0.208	0.17 to 0.23	107	70 to 130	0.466	20
BA15448	Sodium, Total	mg/L	0.0143	0.044	5.00	8.49	8.47	5.21	4.25 to 5.75	107	70 to 130	0.236	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20
BA15448	Calcium, Total	mg/L	0.00000919	0.1518	5.00	9.78	9.78	5.18	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 08:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-26

Laboratory ID Number: BA15448

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW26 DUP

Location Code: WMWGREAP
Collected: 8/18/20 08:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15449

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:51		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 13:51		1.015	4.42	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 13:51		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 13:51		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 13:51		1.015	0.633	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 13:51		1.015	3.09	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 13:01		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:24		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:24		1.015	0.0429	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:24		1.015	0.000727	mg/L	0.0006	0.003	J
* Cadmium, Total	8/24/20 08:28	8/24/20 16:24		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:24		1.015	0.00242	mg/L	0.002	0.005	J
* Lead, Total	8/24/20 08:28	8/24/20 16:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:24		1.015	0.444	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 16:24		1.015	0.155	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 16:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:24		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 16:09		1.015	0.165	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	7.20	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	42.0	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW26 DUP

Location Code: WMWGREAP
Collected: 8/18/20 08:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15449

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	7.20	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:30	8/21/20 10:30		1	2.18	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/31/20 12:36	8/31/20 12:36		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 12:31	8/25/20 12:31		1	8.89	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/18/20 08:38	8/18/20 08:38			60.95	uS/cm			FA
pH	8/18/20 08:38	8/18/20 08:38			4.79	SU			FA
Temperature	8/18/20 08:38	8/18/20 08:38			19.39	C			FA
Turbidity	8/18/20 08:38	8/18/20 08:38			0.2	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 08:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW26 DUP

Laboratory ID Number: BA15449

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 08:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW26 DUP

Laboratory ID Number: BA15449

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP
Collected: 8/18/20 10:00
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15450

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:54		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 13:54		1.015	0.231	mg/L	0.1	0.5	J
* Iron, Total	8/20/20 14:40	8/21/20 13:54		1.015	0.0400	mg/L	0.02	0.05	J
* Lithium, Total	8/20/20 14:40	8/21/20 13:54		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 13:54		1.015	0.284	mg/L	0.1	0.5	J
* Sodium, Total	8/20/20 14:40	8/21/20 13:54		1.015	1.19	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 13:04		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:27		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:27		1.015	0.0442	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:27		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:27		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:27		1.015	0.00224	mg/L	0.002	0.005	J
* Lead, Total	8/24/20 08:28	8/24/20 16:27		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:27		1.015	0.787	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 16:27		1.015	0.0202	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 16:27		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:27		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 16:12		1.015	0.0194	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	Not Detected	mg/L		0.1	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	Not Detected	mg/L		25	U

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-29

Location Code: WMWGREAP
Collected: 8/18/20 10:00
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15450

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	Not Detected	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	Not Detected	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:32	8/21/20 10:32		1	1.05	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/31/20 12:37	8/31/20 12:37		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 12:32	8/25/20 12:32		1	0.608	mg/L	0.50	1	J
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/18/20 09:57	8/18/20 09:57			16.42	uS/cm			FA
pH	8/18/20 09:57	8/18/20 09:57			4.22	SU			FA
Temperature	8/18/20 09:57	8/18/20 09:57			18.75	C			FA
Turbidity	8/18/20 09:57	8/18/20 09:57			1.34	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 10:00
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BA15450

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15450	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.0985	0.102	0.101	0.085 to 0.115	98.5	70 to 130	3.49	20
BA15450	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.146	0.145	0.101	0.085 to 0.115	102	70 to 130	0.687	20
BA15450	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.102	0.101	0.102	0.085 to 0.115	99.8	70 to 130	0.985	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20
BA15450	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0990	0.0968	0.0999	0.085 to 0.115	99.0	70 to 130	2.25	20
BA15450	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.0982	0.0988	0.100	0.085 to 0.115	98.2	70 to 130	0.609	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20
BA15450	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0971	0.100	0.085 to 0.115	97.1	70 to 130	0.00	20
BA15450	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0948	0.0956	0.0949	0.085 to 0.115	94.8	70 to 130	0.840	20
BA15450	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0924	0.0927	0.0929	0.085 to 0.115	92.4	70 to 130	0.324	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15450	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.0952	0.0962	0.100	0.085 to 0.115	95.2	70 to 130	1.04	20
BA15450	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0951	0.0958	0.0954	0.085 to 0.115	95.1	70 to 130	0.733	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15450	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.100	0.0982	0.102	0.085 to 0.115	100	70 to 130	1.82	20
BA15450	Potassium, Total	mg/L	-0.00364	0.3674	10.0	11.1	10.8	10.2	8.5 to 11.5	103	70 to 130	2.74	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15450	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	0.119	0.116	0.0992	0.085 to 0.115	98.8	70 to 130	2.55	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 10:00
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-29

Laboratory ID Number: BA15450

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20
BA15450	Sulfate	mg/L	-0.321	0.50	20.0	18.9	0.640	19.1	18 to 22	91.5	80 to 120	5.13	20
BA15450	Fluoride	mg/L	0.0526	0.05	2.50	2.32	0.0149	2.54	2.25 to 2.75	92.8	80 to 120	0.00	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 8/18/20 10:55
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15451

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 13:57		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 13:57		1.015	0.926	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 13:57		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 13:57		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 13:57		1.015	0.277	mg/L	0.1	0.5	J
* Sodium, Total	8/20/20 14:40	8/21/20 13:57		1.015	3.32	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 13:06		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:43		1.015	0.0529	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:43		1.015	1.09	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 16:43		1.015	0.0106	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:43		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 16:15		1.015	0.0103	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	0.72	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	30.0	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-30

Location Code: WMWGREAP
Collected: 8/18/20 10:55
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15451

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.72	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:33	8/21/20 10:33		1	3.80	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:03	8/20/20 13:03		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:14	8/25/20 13:14		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/18/20 10:51	8/18/20 10:51			32.43	uS/cm			FA
pH	8/18/20 10:51	8/18/20 10:51			4.76	SU			FA
Temperature	8/18/20 10:51	8/18/20 10:51			18.80	C			FA
Turbidity	8/18/20 10:51	8/18/20 10:51			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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 10:55
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BA15451

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 10:55
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-30

Laboratory ID Number: BA15451

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 8/18/20 11:55
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15452

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:00		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 14:00		1.015	0.884	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 14:00		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 14:00		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 14:00		1.015	0.650	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:00		1.015	1.95	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 13:09		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:46		1.015	0.0734	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:46		1.015	0.876	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 16:46		1.015	0.0223	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:46		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 16:17		1.015	0.0222	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	Not Detected	mg/L		0.1	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	27.3	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-27

Location Code: WMWGREAP
Collected: 8/18/20 11:55
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15452

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	Not Detected	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	Not Detected	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:34	8/21/20 10:34		1	1.63	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:04	8/20/20 13:04		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:15	8/25/20 13:15		1	1.57	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/18/20 11:50	8/18/20 11:50			33.77	uS/cm			FA
pH	8/18/20 11:50	8/18/20 11:50			4.75	SU			FA
Temperature	8/18/20 11:50	8/18/20 11:50			19.67	C			FA
Turbidity	8/18/20 11:50	8/18/20 11:50			0.01	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 11:55
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BA15452

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 11:55
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-27

Laboratory ID Number: BA15452

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 8/18/20 12:45
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15453

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:03		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 14:03		1.015	2.23	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 14:03		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 14:03		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 14:03		1.015	1.82	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:03		1.015	1.24	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 13:12		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:48		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:48		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 16:48		1.015	0.211	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:48		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:48		1.015	0.000476	mg/L	0.0003	0.001	J
* Chromium, Total	8/24/20 08:28	8/24/20 16:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:48		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 16:48		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:48		1.015	2.01	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 16:48		1.015	0.0659	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 16:48		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:48		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 16:20		1.015	0.0660	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	0.84	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	35.3	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-28

Location Code: WMWGREAP
Collected: 8/18/20 12:45
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15453

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.84	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:35	8/21/20 10:35		1	1.38	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:06	8/20/20 13:06		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:17	8/25/20 13:17		1	10.3	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/18/20 12:42	8/18/20 12:42			57.09	uS/cm			FA
pH	8/18/20 12:42	8/18/20 12:42			4.59	SU			FA
Temperature	8/18/20 12:42	8/18/20 12:42			19.02	C			FA
Turbidity	8/18/20 12:42	8/18/20 12:42			0.45	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 12:45
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BA15453

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15453	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.10	0.160	0.162	0.0967	0.085 to 0.115	94.0	70 to 130	1.24	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15453	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	0.206	0.208	0.209	0.17 to 0.23	103	70 to 130	0.966	20
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 12:45
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-28

Laboratory ID Number: BA15453

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 8/17/20 12:21
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15454

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:06		1.015	0.344	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 14:59		10.15	153	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 14:59		10.15	29.8	mg/L	0.203	0.5075	
* Lithium, Total	8/20/20 14:40	8/21/20 14:06		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 14:06		1.015	30.7	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:06		1.015	25.9	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:31		101.5	30.0	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:51		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:51		1.015	0.00191	mg/L	0.001	0.005	J
* Barium, Total	8/24/20 08:28	8/24/20 16:51		1.015	0.0718	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:51		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:51		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:51		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:51		1.015	0.148	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 16:51		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:51		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:51		1.015	5.96	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:30		10.15	5.96	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 16:51		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:51		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:48		10.15	6.00	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 10:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	93.6	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	826	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - PZ-4

Location Code: WMWGREAP
Collected: 8/17/20 12:21
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15454

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	93.6	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.01	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:38	8/21/20 10:38		1	9.78	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:07	8/20/20 13:07		1	0.0959	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:18	8/25/20 13:18		32	493	mg/L	16.00	32	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/17/20 12:18	8/17/20 12:18			1025.27	uS/cm			FA
pH	8/17/20 12:18	8/17/20 12:18			5.94	SU			FA
Temperature	8/17/20 12:18	8/17/20 12:18			22.86	C			FA
Turbidity	8/17/20 12:18	8/17/20 12:18			1.97	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/17/20 12:21
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BA15454

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20
BA15454	Mercury, Total by CVAA	mg/L	0.0000785	0.0005	0.004	0.00400	0.00401	0.00404	0.0034 to 0.0046	100	70 to 130	0.250	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/17/20 12:21
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - PZ-4

Laboratory ID Number: BA15454

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15454	Chloride	mg/L	-0.0434	0.50	10.0	19.9	9.78	10.2	9 to 11	101	80 to 120	0.00	20
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP
Collected: 8/17/20 13:34
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15455

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:09		1.015	0.496	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:02		101.5	81.5	mg/L	10.15	50.75	
* Iron, Total	8/20/20 14:40	8/21/20 15:02		101.5	326	mg/L	2.03	5.075	
* Lithium, Total	8/20/20 14:40	8/21/20 14:09		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 14:09		1.015	38.5	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:02		101.5	64.1	mg/L	10.15	50.75	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:33		101.5	298	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:54		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:54		1.015	0.0265	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 16:54		1.015	0.0218	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:54		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:54		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:54		1.015	0.195	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 16:54		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:54		1.015	3.56	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:33		92.365	14.1	mg/L	0.092365	0.461825	
* Selenium, Total	8/24/20 08:28	8/24/20 16:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:54		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:51		92.365	13.9	mg/L	0.092365	0.461825	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	75.7	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	1590	mg/L		100	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-1

Location Code: WMWGREAP
Collected: 8/17/20 13:34
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15455

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	75.7	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 11:00	8/21/20 11:00		2	23.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:08	8/20/20 13:08		1	0.115	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:19	8/25/20 13:19		40	919	mg/L	20.00	40	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/17/20 13:30	8/17/20 13:30			1538.05	uS/cm			FA
pH	8/17/20 13:30	8/17/20 13:30			5.54	SU			FA
Temperature	8/17/20 13:30	8/17/20 13:30			21.68	C			FA
Turbidity	8/17/20 13:30	8/17/20 13:30			1.7	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/17/20 13:34
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BA15455

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/17/20 13:34
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-1

Laboratory ID Number: BA15455

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-1 DUP

Location Code: WMWGREAP
Collected: 8/17/20 13:34
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15456

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:12		1.015	0.494	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:05		101.5	82.2	mg/L	10.15	50.75	
* Iron, Total	8/20/20 14:40	8/21/20 15:05		101.5	326	mg/L	2.03	5.075	
* Lithium, Total	8/20/20 14:40	8/21/20 14:12		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 14:12		1.015	38.8	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:05		101.5	63.3	mg/L	10.15	50.75	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:36		101.5	307	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:56		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:56		1.015	0.0262	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 16:56		1.015	0.0226	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:56		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:56		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:56		1.015	0.199	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 16:56		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:56		1.015	3.54	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:36		92.365	14.1	mg/L	0.092365	0.461825	
* Selenium, Total	8/24/20 08:28	8/24/20 16:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:56		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:53		92.365	14.0	mg/L	0.092365	0.461825	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	55.4	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	1620	mg/L		100	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-1 DUP

Location Code: WMWGREAP
Collected: 8/17/20 13:34
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15456

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	55.4	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 11:01	8/21/20 11:01		2	24.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:09	8/20/20 13:09		1	0.0870	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:20	8/25/20 13:20		40	907	mg/L	20.00	40	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/17/20 13:30	8/17/20 13:30			1538.05	uS/cm			FA
pH	8/17/20 13:30	8/17/20 13:30			5.54	SU			FA
Temperature	8/17/20 13:30	8/17/20 13:30			21.68	C			FA
Turbidity	8/17/20 13:30	8/17/20 13:30			1.7	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/17/20 13:34
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-1 DUP

Laboratory ID Number: BA15456

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/17/20 13:34
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-1 DUP

Laboratory ID Number: BA15456

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 8/17/20 14:38
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15457

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:15		1.015	0.152	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:08		20.3	156	mg/L	2.03	10.15	
* Iron, Total	8/20/20 14:40	8/21/20 15:08		20.3	42.1	mg/L	0.406	1.015	
* Lithium, Total	8/20/20 14:40	8/21/20 14:15		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 14:15		1.015	21.3	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:15		1.015	34.7	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:39		101.5	40.2	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 16:59		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 16:59		1.015	0.00768	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 16:59		1.015	0.0376	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 16:59		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 16:59		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 16:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 16:59		1.015	0.0249	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 16:59		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 16:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 16:59		1.015	6.28	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:38		10.15	4.96	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 16:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 16:59		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:56		10.15	4.89	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	58.9	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	818	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-2

Location Code: WMWGREAP
Collected: 8/17/20 14:38
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15457

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	58.9	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.01	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:52	8/21/20 10:52		1	13.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:10	8/20/20 13:10		1	0.0753	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:22	8/25/20 13:22		32	497	mg/L	16.00	32	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/17/20 14:34	8/17/20 14:34			1009.86	uS/cm			FA
pH	8/17/20 14:34	8/17/20 14:34			5.91	SU			FA
Temperature	8/17/20 14:34	8/17/20 14:34			23.99	C			FA
Turbidity	8/17/20 14:34	8/17/20 14:34			2.03	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/17/20 14:38
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BA15457

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/17/20 14:38
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-2

Laboratory ID Number: BA15457

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP
Collected: 8/17/20 15:36
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15458

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:18		1.015	0.0636	mg/L	0.03	0.1	J
* Calcium, Total	8/20/20 14:40	8/21/20 15:11		20.3	78.9	mg/L	2.03	10.15	
* Iron, Total	8/20/20 14:40	8/21/20 15:11		20.3	47.7	mg/L	0.406	1.015	RA
* Lithium, Total	8/20/20 14:40	8/21/20 14:18		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 14:18		1.015	4.61	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:18		1.015	28.9	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:42		101.5	44.8	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:02		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:02		1.015	0.00909	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 17:02		1.015	0.139	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:02		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:02		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:02		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 17:02		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 17:02		1.015	1.02	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 17:02		1.015	0.480	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 17:02		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:02		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 16:46		1.015	0.494	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	285	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	361	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-3

Location Code: WMWGREAP
Collected: 8/17/20 15:36
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15458

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	285	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.07	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 11:03	8/21/20 11:03		2	24.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:11	8/20/20 13:11		1	0.148	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:23	8/25/20 13:23		1	17.3	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/17/20 15:32	8/17/20 15:32			549.83	uS/cm			FA
pH	8/17/20 15:32	8/17/20 15:32			5.85	SU			FA
Temperature	8/17/20 15:32	8/17/20 15:32			22.72	C			FA
Turbidity	8/17/20 15:32	8/17/20 15:32			2.13	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/17/20 15:36
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BA15458

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20
BA15458	Boron, Total	mg/L	0.000434	0.0650254	1.00	1.12	1.11	1.02	0.85 to 1.15	106	70 to 130	0.897	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20
BA15458	Calcium, Total	mg/L	0.000891	0.1518	5.00	83.3	83.1	5.25	4.25 to 5.75	88.0	70 to 130	0.240	20
BA15458	Iron, Total	mg/L	0.00102	0.0176	0.2	47.7	47.6	0.209	0.17 to 0.23	0.00	70 to 130	0.210	20
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20
BA15458	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.209	0.207	0.192	0.17 to 0.23	104	70 to 130	0.962	20
BA15458	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	9.69	9.67	5.21	4.25 to 5.75	102	70 to 130	0.207	20
BA15458	Sodium, Total	mg/L	0.00101	0.044	5.00	34.1	34.1	5.15	4.25 to 5.75	104	70 to 130	0.00	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/17/20 15:36
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-3

Laboratory ID Number: BA15458

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 8/18/20 08:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15459

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:32		1.015	0.748	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:19		10.15	42.9	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 14:32		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 14:32		1.015	0.0892	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 14:32		1.015	17.6	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:32		1.015	14.9	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 13:42		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:04		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 17:04		1.015	0.0210	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:04		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:04		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:04		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 17:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:04		1.015	0.0938	mg/L	0.002	0.01	
* Potassium, Total	8/24/20 08:28	8/24/20 17:04		1.015	3.67	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:41		5.075	3.04	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 17:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:04		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 17:59		5.075	3.01	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	107	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	250	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-12

Location Code: WMWGREAP
Collected: 8/18/20 08:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15459

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	107	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.17	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:54	8/21/20 10:54		1	6.46	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:13	8/20/20 13:13		1	0.223	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:24	8/25/20 13:24		5	89.0	mg/L	2.50	5	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/18/20 08:36	8/18/20 08:36			361.36	uS/cm			FA
pH	8/18/20 08:36	8/18/20 08:36			6.98	SU			FA
Temperature	8/18/20 08:36	8/18/20 08:36			20.44	C			FA
Turbidity	8/18/20 08:36	8/18/20 08:36			1.68	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 08:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BA15459

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 08:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-12

Laboratory ID Number: BA15459

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-12 DUP

Location Code: WMWGREAP
Collected: 8/18/20 08:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15460

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:35		1.015	0.752	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:22		10.15	41.1	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 14:35		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 14:35		1.015	0.0895	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 14:35		1.015	17.8	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:35		1.015	15.0	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 13:45		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:07		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:07		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 17:07		1.015	0.0215	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:07		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:07		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:07		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 17:07		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:07		1.015	0.0948	mg/L	0.002	0.01	
* Potassium, Total	8/24/20 08:28	8/24/20 17:07		1.015	3.70	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 15:44		5.075	3.08	mg/L	0.005075	0.025375	RA
* Selenium, Total	8/24/20 08:28	8/24/20 17:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:07		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:01		5.075	3.02	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	107	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/20/20 16:20	8/26/20 10:15		1	260	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-12 DUP

Location Code: WMWGREAP
Collected: 8/18/20 08:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15460

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	107	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.18	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:55	8/21/20 10:55		1	6.74	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:14	8/20/20 13:14		1	0.223	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 13:25	8/25/20 13:25		8	92.9	mg/L	4.00	8	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/18/20 08:36	8/18/20 08:36			361.36	uS/cm			FA
pH	8/18/20 08:36	8/18/20 08:36			6.98	SU			FA
Temperature	8/18/20 08:36	8/18/20 08:36			20.44	C			FA
Turbidity	8/18/20 08:36	8/18/20 08:36			1.68	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 08:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: BA15460

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Barium, Total	mg/L	0.0000115	0.0002	0.10	0.117	0.119	0.101	0.085 to 0.115	95.5	70 to 130	1.69	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15460	Manganese, Total	mg/L	0.0000617	0.0001474	0.10	3.19	3.12	0.0992	0.085 to 0.115	110	70 to 130	2.22	20
BA15460	Molybdenum, Total	mg/L	0.0000168	0.0001474	0.10	0.190	0.193	0.100	0.085 to 0.115	95.2	70 to 130	1.57	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15460	Thallium, Total	mg/L	0.0000096	0.0001474	0.10	0.0967	0.0975	0.0954	0.085 to 0.115	96.7	70 to 130	0.824	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15460	Arsenic, Total	mg/L	0.0000263	0.0001474	0.10	0.0994	0.103	0.102	0.085 to 0.115	99.4	70 to 130	3.56	20
BA15460	Beryllium, Total	mg/L	0.0000877	0.00088	0.10	0.105	0.102	0.101	0.085 to 0.115	105	70 to 130	2.90	20
BA15460	Antimony, Total	mg/L	0.000167	0.001	0.10	0.0942	0.0936	0.0929	0.085 to 0.115	94.2	70 to 130	0.639	20
BA15460	Selenium, Total	mg/L	0.0000439	0.001	0.10	0.102	0.101	0.100	0.085 to 0.115	102	70 to 130	0.985	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20
BA15460	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0958	0.0981	0.100	0.085 to 0.115	95.8	70 to 130	2.37	20
BA15460	Chromium, Total	mg/L	0.0000022	0.00044	0.10	0.0951	0.0953	0.0999	0.085 to 0.115	95.1	70 to 130	0.210	20
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15460	Cobalt, Total	mg/L	-0.0000005	0.0001474	0.10	0.0976	0.0975	0.102	0.085 to 0.115	97.6	70 to 130	0.103	20
BA15460	Potassium, Total	mg/L	-0.00364	0.3674	10.0	13.6	13.6	10.2	8.5 to 11.5	99.0	70 to 130	0.00	20
BA15460	Lead, Total	mg/L	0.0000108	0.0001474	0.10	0.0958	0.0977	0.0949	0.085 to 0.115	95.8	70 to 130	1.96	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 08:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-12 DUP

Laboratory ID Number: BA15460

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15460	Solids, Dissolved	mg/L	0.0000	25			257	53.0	40 to 60			0.580	5
BA15460	Fluoride	mg/L	0.0263	0.05	2.50	2.91	0.216	2.62	2.25 to 2.75	107	80 to 120	3.19	20
BA15460	Sulfate	mg/L	-0.513	0.50	160	241	94.0	18.6	18 to 22	92.6	80 to 120	1.18	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 8/18/20 09:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15461

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:38		1.015	0.211	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 14:38		1.015	25.5	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 14:38		1.015	0.0587	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 14:38		1.015	0.0718	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 14:38		1.015	9.65	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:38		1.015	15.8	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 13:48		1.015	0.0520	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:28		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:28		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 17:28		1.015	0.0517	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:28		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:28		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:28		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 17:28		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:28		1.015	0.0505	mg/L	0.002	0.01	
* Potassium, Total	8/24/20 08:28	8/24/20 17:28		1.015	4.40	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/24/20 17:28		1.015	0.362	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 17:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:28		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 16:54		1.015	0.363	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	67.0	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	179	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-21

Location Code: WMWGREAP
Collected: 8/18/20 09:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15461

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	66.9	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.06	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:57	8/21/20 10:57		1	5.54	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:29	8/20/20 13:29		1	0.180	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:06	8/25/20 14:06		4	63.4	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/18/20 09:36	8/18/20 09:36			279.83	uS/cm			FA
pH	8/18/20 09:36	8/18/20 09:36			6.31	SU			FA
Temperature	8/18/20 09:36	8/18/20 09:36			21.94	C			FA
Turbidity	8/18/20 09:36	8/18/20 09:36			1.72	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 09:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BA15461

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 09:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-21

Laboratory ID Number: BA15461

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15466	Fluoride	mg/L	0.0248	0.05	2.50	2.68	0.075	2.62	2.25 to 2.75	104	80 to 120	2.11	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP
Collected: 8/18/20 10:42
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15462

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:41		1.015	0.358	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 14:41		1.015	37.6	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 14:41		1.015	1.93	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 14:41		1.015	0.109	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 14:41		1.015	9.86	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:41		1.015	27.3	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 13:51		1.015	2.02	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:31		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:31		1.015	0.00457	mg/L	0.001	0.005	J
* Barium, Total	8/24/20 08:28	8/24/20 17:31		1.015	0.0866	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:31		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:31		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:31		1.015	0.0298	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 17:31		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:31		1.015	0.0146	mg/L	0.002	0.01	
* Potassium, Total	8/24/20 08:28	8/24/20 17:31		1.015	5.74	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 16:00		10.15	6.03	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 17:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:31		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:04		10.15	5.96	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	93.6	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	260	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-11

Location Code: WMWGREAP
Collected: 8/18/20 10:42
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15462

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	93.6	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.03	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 10:58	8/21/20 10:58		1	16.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:30	8/20/20 13:30		1	0.165	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:08	8/25/20 14:08		5	81.1	mg/L	2.50	5	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/18/20 10:38	8/18/20 10:38			374.70	uS/cm			FA
pH	8/18/20 10:38	8/18/20 10:38			6.00	SU			FA
Temperature	8/18/20 10:38	8/18/20 10:38			21.17	C			FA
Turbidity	8/18/20 10:38	8/18/20 10:38			1.72	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 10:42
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BA15462

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 10:42
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-11

Laboratory ID Number: BA15462

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15466	Fluoride	mg/L	0.0248	0.05	2.50	2.68	0.075	2.62	2.25 to 2.75	104	80 to 120	2.11	20
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 8/18/20 11:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15463

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:44		1.015	1.37	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:25		10.15	74.4	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 15:25		10.15	21.0	mg/L	0.203	0.5075	
* Lithium, Total	8/20/20 14:40	8/21/20 14:44		1.015	0.124	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 14:44		1.015	11.3	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:44		1.015	32.1	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:45		10.15	21.0	mg/L	0.203	0.5075	RA
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:33		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:33		1.015	0.0121	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 17:33		1.015	0.223	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:33		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:33		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:33		1.015	0.0287	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 17:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:33		1.015	0.00808	mg/L	0.002	0.01	J
* Potassium, Total	8/24/20 08:28	8/24/20 17:33		1.015	3.79	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 16:02		10.15	5.06	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 17:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:33		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:07		10.15	5.00	mg/L	0.01015	0.05075	RA
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 10:20	8/26/20 11:15		1	229	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	376	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-10

Location Code: WMWGREAP
Collected: 8/18/20 11:40
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15463

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	229	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 10:20	8/26/20 11:15		1	0.08	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 11:04	8/21/20 11:04		2	21.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:32	8/20/20 13:32		1	0.203	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:09	8/25/20 14:09		3	58.6	mg/L	1.50	3	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/18/20 11:37	8/18/20 11:37			600.27	uS/cm			FA
pH	8/18/20 11:37	8/18/20 11:37			6.33	SU			FA
Temperature	8/18/20 11:37	8/18/20 11:37			20.33	C			FA
Turbidity	8/18/20 11:37	8/18/20 11:37			1.75	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 11:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BA15463

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15463	Iron, Dissolved	mg/L	-0.0000460	0.0176	0.2	21.2	21.0	0.209	0.17 to 0.23	100	70 to 130	0.948	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20
BA15463	Manganese, Dissolved	mg/L	0.0000553	0.0001474	0.100	4.99	5.04	0.0967	0.085 to 0.115	-10.0	70 to 130	0.997	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 11:40
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-10

Laboratory ID Number: BA15463

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15466	Fluoride	mg/L	0.0248	0.05	2.50	2.68	0.075	2.62	2.25 to 2.75	104	80 to 120	2.11	20
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15463	Alkalinity, Total as CaCO3	mg/L					224	49.1	45.0 to 55.0			2.21	10
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 8/18/20 09:02
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15464

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:47		1.015	0.501	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:28		10.15	95.3	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 14:47		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 14:47		1.015	0.420	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 14:47		1.015	19.2	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:47		1.015	18.4	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:15		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:36		1.015	0.00388	mg/L	0.0008	0.003	
* Arsenic, Total	8/24/20 08:28	8/24/20 17:36		1.015	0.00176	mg/L	0.001	0.005	J
* Barium, Total	8/24/20 08:28	8/24/20 17:36		1.015	0.199	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:36		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:36		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:36		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 17:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:36		1.015	0.145	mg/L	0.002	0.01	
* Potassium, Total	8/24/20 08:28	8/24/20 17:36		1.015	7.87	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/24/20 17:36		1.015	0.0724	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 17:36		1.015	0.00416	mg/L	0.002	0.01	J
* Thallium, Total	8/24/20 08:28	8/24/20 17:36		1.015	0.00114	mg/L	0.0002	0.001	
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 17:20		1.015	0.0737	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	117	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	444	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-13

Location Code: WMWGREAP
Collected: 8/18/20 09:02
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15464

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	117	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.13	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 11:05	8/21/20 11:05		1	8.24	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:33	8/20/20 13:33		1	0.108	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:10	8/25/20 14:10		16	203	mg/L	8.00	16	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	8/18/20 08:58	8/18/20 08:58			653.79	uS/cm			FA
pH	8/18/20 08:58	8/18/20 08:58			6.76	SU			FA
Temperature	8/18/20 08:58	8/18/20 08:58			22.96	C			FA
Turbidity	8/18/20 08:58	8/18/20 08:58			1.23	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 09:02
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BA15464

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15464	Mercury, Total by CVAA	mg/L	0.0000562	0.0005	0.004	0.00388	0.00384	0.00389	0.0034 to 0.0046	97.0	70 to 130	1.04	20
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 09:02
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-13

Laboratory ID Number: BA15464

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15466	Fluoride	mg/L	0.0248	0.05	2.50	2.68	0.075	2.62	2.25 to 2.75	104	80 to 120	2.11	20
BA15464	Chloride	mg/L	-0.0373	0.50	10.0	18.4	8.30	10.3	9 to 11	102	80 to 120	0.726	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 8/18/20 09:25
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15465

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:50		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 14:50		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 14:50		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 14:50		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 14:50		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 14:50		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:39		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 11:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/21/20 12:33	8/21/20 12:33		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/20/20 13:34	8/20/20 13:34		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 14:11	8/25/20 14:11		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 8/18/20 09:25
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA15465

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 8/18/20 09:25
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA15465

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15466	Fluoride	mg/L	0.0248	0.05	2.50	2.68	0.075	2.62	2.25 to 2.75	104	80 to 120	2.11	20
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP
Collected: 8/18/20 10:50
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15466

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:53		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 14:53		1.015	22.9	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 14:53		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 14:53		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 14:53		1.015	2.96	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:53		1.015	1.24	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:18		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 17:41		1.015	0.0330	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 17:41		1.015	1.31	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.001	0.005	U
* Selenium, Total	8/24/20 08:28	8/24/20 17:41		1.015	0.00268	mg/L	0.002	0.01	J
* Thallium, Total	8/24/20 08:28	8/24/20 17:41		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 17:23		1.015	Not Detected	mg/L	0.001	0.005	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 11:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	31.3	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	100	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-35H

Location Code: WMWGREAP
Collected: 8/18/20 10:50
Customer ID:
Submittal Date: 8/19/20 10:53

Laboratory ID Number: BA15466

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	31.3	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.01	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 12:34	8/21/20 12:34		1	1.12	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:35	8/20/20 13:35		1	0.0766	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:12	8/25/20 14:12		1	28.8	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	8/18/20 10:47	8/18/20 10:47			149.86	uS/cm			FA
pH	8/18/20 10:47	8/18/20 10:47			6.03	SU			FA
Temperature	8/18/20 10:47	8/18/20 10:47			21.91	C			FA
Turbidity	8/18/20 10:47	8/18/20 10:47			1.32	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 10:50
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BA15466

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 10:50
Customer ID:
Delivery Date: 8/19/20 10:53

Description: Greene County Ash Pond - MW-35H

Laboratory ID Number: BA15466

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15464	Solids, Dissolved	mg/L	0.0000	25			447	53.0	40 to 60			0.337	5
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15466	Fluoride	mg/L	0.0248	0.05	2.50	2.68	0.075	2.62	2.25 to 2.75	104	80 to 120	2.11	20
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP
Collected: 8/18/20 13:31
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:56		1.015	0.689	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:31		10.15	66.7	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 15:31		10.15	4.85	mg/L	0.203	0.5075	
* Lithium, Total	8/20/20 14:40	8/21/20 14:56		1.015	0.0390	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 14:56		1.015	6.47	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 14:56		1.015	27.5	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:54		10.15	4.36	mg/L	0.203	0.5075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:44		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:44		1.015	0.00171	mg/L	0.001	0.005	J
* Barium, Total	8/24/20 08:28	8/24/20 17:44		1.015	0.0879	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:44		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:44		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:44		1.015	0.00814	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 17:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 17:44		1.015	4.63	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 16:05		5.075	1.88	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 17:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:44		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:23		5.075	1.65	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 11:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	160	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	299	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-41H

Location Code: WMWGREAP
Collected: 8/18/20 13:31
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	160	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.06	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 12:35	8/21/20 12:35		1	15.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 13:50	8/21/20 13:50		1	0.0920	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:14	8/25/20 14:14		4	76.6	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/18/20 13:28	8/18/20 13:28			480.06	uS/cm			FA
pH	8/18/20 13:28	8/18/20 13:28			5.93	SU			FA
Temperature	8/18/20 13:28	8/18/20 13:28			20.87	C			FA
Turbidity	8/18/20 13:28	8/18/20 13:28			1.91	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 13:31
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BA15688

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 13:31
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-41H

Laboratory ID Number: BA15688

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 8/18/20 15:12
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 14:59		1.015	1.24	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:43		10.15	109	mg/L	1.015	5.075	RA
* Iron, Total	8/20/20 14:40	8/21/20 15:43		10.15	17.8	mg/L	0.203	0.5075	RA
* Lithium, Total	8/20/20 14:40	8/21/20 14:59		1.015	0.0591	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 14:59		1.015	29.1	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:43		10.15	44.4	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:17		10.15	18.2	mg/L	0.203	0.5075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:47		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:47		1.015	0.0108	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 17:47		1.015	0.165	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:47		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:47		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:47		1.015	0.0164	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 17:47		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 17:47		1.015	6.33	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 16:08		10.15	8.15	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 17:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:47		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:25		10.15	7.82	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 11:56		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	331	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	542	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-9

Location Code: WMWGREAP
Collected: 8/18/20 15:12
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	331	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.10	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 12:36	8/21/20 12:36		2	31.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 13:51	8/21/20 13:51		1	0.177	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:15	8/25/20 14:15		8	115	mg/L	4.00	8	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/18/20 15:08	8/18/20 15:08			797.89	uS/cm			FA
pH	8/18/20 15:08	8/18/20 15:08			6.21	SU			FA
Temperature	8/18/20 15:08	8/18/20 15:08			20.29	C			FA
Turbidity	8/18/20 15:08	8/18/20 15:08			1.68	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/18/20 15:12
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BA15689

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15689	Iron, Total	mg/L	0.00102	0.0176	0.2	17.1	17.4	0.209	0.17 to 0.23	-350	70 to 130	1.74	20
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15689	Boron, Total	mg/L	0.000434	0.0650254	1.00	2.27	2.27	1.02	0.85 to 1.15	103	70 to 130	0.00	20
BA15689	Sodium, Total	mg/L	0.00101	0.044	5.00	48.2	49.6	5.15	4.25 to 5.75	76.0	70 to 130	2.86	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15689	Calcium, Total	mg/L	0.000891	0.1518	5.00	110	113	5.25	4.25 to 5.75	20.0	70 to 130	2.69	20
BA15689	Magnesium, Total	mg/L	-0.00185	0.0462	5.00	33.7	33.7	5.21	4.25 to 5.75	92.0	70 to 130	0.00	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20
BA15689	Lithium, Total	mg/L	-0.0000109	0.0154	0.200	0.272	0.270	0.192	0.17 to 0.23	106	70 to 130	0.738	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/18/20 15:12
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-9

Laboratory ID Number: BA15689

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 8/19/20 09:00
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:19		1.015	1.86	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:52		10.15	162	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 15:19		1.015	0.328	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 15:19		1.015	0.0197	mg/L	0.01	0.02	J
* Magnesium, Total	8/20/20 14:40	8/21/20 15:19		1.015	35.9	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:52		10.15	85.8	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:27		1.015	0.256	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:49		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 17:49		1.015	0.0784	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:49		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:49		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:49		1.015	0.00278	mg/L	0.002	0.005	J
* Lead, Total	8/24/20 08:28	8/24/20 17:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 17:49		1.015	1.34	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 17:49		1.015	1.09	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 17:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:49		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 17:31		1.015	1.07	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 11:58		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	483	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	788	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-6

Location Code: WMWGREAP
Collected: 8/19/20 09:00
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	483	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.25	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 12:38	8/21/20 12:38		4	39.6	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 13:52	8/21/20 13:52		1	0.223	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:16	8/25/20 14:16		10	163	mg/L	5.00	10	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/19/20 08:57	8/19/20 08:57			1149.79	uS/cm			FA
pH	8/19/20 08:57	8/19/20 08:57			6.49	SU			FA
Temperature	8/19/20 08:57	8/19/20 08:57			20.61	C			FA
Turbidity	8/19/20 08:57	8/19/20 08:57			1.54	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/19/20 09:00
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BA15690

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/19/20 09:00
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-6

Laboratory ID Number: BA15690

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 8/19/20 10:52
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:22		1.015	1.94	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:55		10.15	98.6	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 15:22		1.015	0.0559	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 15:22		1.015	0.0511	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 15:22		1.015	21.8	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:55		10.15	138	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:30		1.015	0.0534	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 17:52		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 17:52		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 17:52		1.015	0.119	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 17:52		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 17:52		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 17:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 17:52		1.015	0.00975	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 17:52		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 17:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 17:52		1.015	1.36	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/25/20 16:10		5.075	3.69	mg/L	0.005075	0.025375	RA
* Selenium, Total	8/24/20 08:28	8/24/20 17:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 17:52		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:28		5.075	3.37	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 12:01		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	430	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	658	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-8

Location Code: WMWGREAP
Collected: 8/19/20 10:52
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	430	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.14	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 12:39	8/21/20 12:39		8	70.5	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 13:53	8/21/20 13:53		1	0.116	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:17	8/25/20 14:17		5	44.5	mg/L	2.50	5	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/19/20 10:48	8/19/20 10:48			1021.50	uS/cm			FA
pH	8/19/20 10:48	8/19/20 10:48			6.06	SU			FA
Temperature	8/19/20 10:48	8/19/20 10:48			20.25	C			FA
Turbidity	8/19/20 10:48	8/19/20 10:48			2.03	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/19/20 10:52
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BA15691

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15691	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0917	0.0924	0.0984	0.085 to 0.115	91.7	70 to 130	0.760	20
BA15691	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0940	0.0965	0.0982	0.085 to 0.115	94.0	70 to 130	2.62	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20
BA15691	Potassium, Total	mg/L	0.0154	0.3674	10.0	11.1	10.9	10.2	8.5 to 11.5	97.4	70 to 130	1.82	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15691	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.107	0.105	0.0990	0.085 to 0.115	107	70 to 130	1.89	20
BA15691	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0942	0.0966	0.0955	0.085 to 0.115	94.2	70 to 130	2.52	20
BA15691	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0950	0.0932	0.0919	0.085 to 0.115	95.0	70 to 130	1.91	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15691	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.101	0.0996	0.102	0.085 to 0.115	101	70 to 130	1.40	20
BA15691	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0965	0.0965	0.0973	0.085 to 0.115	96.5	70 to 130	0.00	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15691	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.202	0.199	0.0955	0.085 to 0.115	83.0	70 to 130	1.50	20
BA15691	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0959	0.0962	0.0998	0.085 to 0.115	95.9	70 to 130	0.312	20
BA15691	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.102	0.101	0.0996	0.085 to 0.115	92.2	70 to 130	0.985	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20
BA15691	Manganese, Total	mg/L	0.000104	0.0001474	0.10	3.80	3.85	0.0999	0.085 to 0.115	110	70 to 130	1.31	20
BA15691	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/19/20 10:52
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-8

Laboratory ID Number: BA15691

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15691	Sulfate	mg/L	-0.727	0.50	100	142	45.0	18.6	18 to 22	97.5	80 to 120	1.12	20
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 8/19/20 11:46
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:25		1.015	0.561	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:58		10.15	147	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 15:25		1.015	0.198	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 15:25		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 15:25		1.015	18.5	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:58		10.15	217	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:33		1.015	0.197	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 18:08		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 18:08		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 18:08		1.015	0.0816	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 18:08		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 18:08		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 18:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 18:08		1.015	0.00460	mg/L	0.002	0.005	J
* Lead, Total	8/24/20 08:28	8/24/20 18:08		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 18:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 18:08		1.015	0.913	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 18:08		1.015	1.10	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 18:08		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 18:08		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 17:36		1.015	1.22	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 12:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	397	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	1050	mg/L		75.8	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-7

Location Code: WMWGREAP
Collected: 8/19/20 11:46
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	397	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.13	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 12:40	8/21/20 12:40		10	123	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 13:54	8/21/20 13:54		1	0.103	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 14:59	8/25/20 14:59		20	296	mg/L	10.00	20	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/19/20 11:43	8/19/20 11:43			1478.29	uS/cm			FA
pH	8/19/20 11:43	8/19/20 11:43			6.14	SU			FA
Temperature	8/19/20 11:43	8/19/20 11:43			20.28	C			FA
Turbidity	8/19/20 11:43	8/19/20 11:43			1.78	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/19/20 11:46
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BA15692

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20
BA15699	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.0960	0.0980	0.0955	0.085 to 0.115	96.0	70 to 130	2.06	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15699	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.0952	0.0995	0.0996	0.085 to 0.115	95.2	70 to 130	4.42	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20
BA15699	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0954	0.0966	0.0955	0.085 to 0.115	95.4	70 to 130	1.25	20
BA15699	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.103	0.0998	0.102	0.085 to 0.115	103	70 to 130	3.16	20
BA15699	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0985	0.101	0.0998	0.085 to 0.115	98.5	70 to 130	2.51	20
BA15699	Potassium, Total	mg/L	0.0154	0.3674	10.0	9.89	9.98	10.2	8.5 to 11.5	98.9	70 to 130	0.906	20
BA15699	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0943	0.0937	0.0919	0.085 to 0.115	94.3	70 to 130	0.638	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20
BA15699	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0947	0.0985	0.0984	0.085 to 0.115	94.7	70 to 130	3.93	20
BA15699	Manganese, Total	mg/L	0.000104	0.0001474	0.10	0.0952	0.0987	0.0999	0.085 to 0.115	95.2	70 to 130	3.61	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15699	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.1000	0.101	0.0990	0.085 to 0.115	100	70 to 130	0.995	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15699	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0995	0.0979	0.0973	0.085 to 0.115	99.5	70 to 130	1.62	20
BA15699	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0959	0.0969	0.0982	0.085 to 0.115	95.9	70 to 130	1.04	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15699	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.104	0.101	0.085 to 0.115	101	70 to 130	2.93	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/19/20 11:46
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-7

Laboratory ID Number: BA15692

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15699	Sulfate	mg/L	-0.537	0.50	20.0	18.1	-0.776	18.2	18 to 22	90.5	80 to 120	0.00	20
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP
Collected: 8/19/20 13:16
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:28		1.015	1.15	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 16:01		10.15	99.7	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 16:01		10.15	15.1	mg/L	0.203	0.5075	
* Lithium, Total	8/20/20 14:40	8/21/20 15:28		1.015	0.336	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 15:28		1.015	24.6	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 16:01		10.15	50.8	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:20		10.15	14.9	mg/L	0.203	0.5075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 18:10		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 18:10		1.015	0.0103	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 18:10		1.015	0.168	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 18:10		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 18:10		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 18:10		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 18:10		1.015	0.0173	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 18:10		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 18:10		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 18:10		1.015	9.60	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 16:21		10.15	8.82	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 18:10		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 18:10		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:30		10.15	8.41	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 12:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	364	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	534	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-43H

Location Code: WMWGREAP
Collected: 8/19/20 13:16
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	364	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.16	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 12:41	8/21/20 12:41		4	46.9	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 13:56	8/21/20 13:56		1	0.154	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 15:00	8/25/20 15:00		4	71.8	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/19/20 13:12	8/19/20 13:12			812.67	uS/cm			FA
pH	8/19/20 13:12	8/19/20 13:12			6.18	SU			FA
Temperature	8/19/20 13:12	8/19/20 13:12			20.33	C			FA
Turbidity	8/19/20 13:12	8/19/20 13:12			3.28	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/19/20 13:16
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BA15693

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15699	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.104	0.101	0.085 to 0.115	101	70 to 130	2.93	20
BA15699	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.0960	0.0980	0.0955	0.085 to 0.115	96.0	70 to 130	2.06	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15699	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.103	0.0998	0.102	0.085 to 0.115	103	70 to 130	3.16	20
BA15699	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0985	0.101	0.0998	0.085 to 0.115	98.5	70 to 130	2.51	20
BA15699	Potassium, Total	mg/L	0.0154	0.3674	10.0	9.89	9.98	10.2	8.5 to 11.5	98.9	70 to 130	0.906	20
BA15699	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0943	0.0937	0.0919	0.085 to 0.115	94.3	70 to 130	0.638	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20
BA15699	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0947	0.0985	0.0984	0.085 to 0.115	94.7	70 to 130	3.93	20
BA15699	Manganese, Total	mg/L	0.000104	0.0001474	0.10	0.0952	0.0987	0.0999	0.085 to 0.115	95.2	70 to 130	3.61	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20
BA15699	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0954	0.0966	0.0955	0.085 to 0.115	95.4	70 to 130	1.25	20
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15699	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.0952	0.0995	0.0996	0.085 to 0.115	95.2	70 to 130	4.42	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15699	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.1000	0.101	0.0990	0.085 to 0.115	100	70 to 130	0.995	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15699	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0995	0.0979	0.0973	0.085 to 0.115	99.5	70 to 130	1.62	20
BA15699	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0959	0.0969	0.0982	0.085 to 0.115	95.9	70 to 130	1.04	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/19/20 13:16
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond - MW-43H

Laboratory ID Number: BA15693

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15699	Sulfate	mg/L	-0.537	0.50	20.0	18.1	-0.776	18.2	18 to 22	90.5	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-5

Location Code: WMWGREAPFB
Collected: 8/19/20 13:35
Customer ID:
Submittal Date: 8/20/20 12:58

Laboratory ID Number: BA15694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:31		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 15:31		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 15:31		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 15:31		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 15:31		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 15:31		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 18:13		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 12:08		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/21/20 12:42	8/21/20 12:42		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/21/20 13:57	8/21/20 13:57		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 15:01	8/25/20 15:01		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 8/19/20 13:35
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond Field Blank-5

Laboratory ID Number: BA15694

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15699	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.104	0.101	0.085 to 0.115	101	70 to 130	2.93	20
BA15699	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.103	0.0998	0.102	0.085 to 0.115	103	70 to 130	3.16	20
BA15699	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0985	0.101	0.0998	0.085 to 0.115	98.5	70 to 130	2.51	20
BA15699	Potassium, Total	mg/L	0.0154	0.3674	10.0	9.89	9.98	10.2	8.5 to 11.5	98.9	70 to 130	0.906	20
BA15699	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0943	0.0937	0.0919	0.085 to 0.115	94.3	70 to 130	0.638	20
BA15699	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0947	0.0985	0.0984	0.085 to 0.115	94.7	70 to 130	3.93	20
BA15699	Manganese, Total	mg/L	0.000104	0.0001474	0.10	0.0952	0.0987	0.0999	0.085 to 0.115	95.2	70 to 130	3.61	20
BA15699	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.1000	0.101	0.0990	0.085 to 0.115	100	70 to 130	0.995	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15699	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0995	0.0979	0.0973	0.085 to 0.115	99.5	70 to 130	1.62	20
BA15699	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0959	0.0969	0.0982	0.085 to 0.115	95.9	70 to 130	1.04	20
BA15699	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.0960	0.0980	0.0955	0.085 to 0.115	96.0	70 to 130	2.06	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20
BA15699	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0954	0.0966	0.0955	0.085 to 0.115	95.4	70 to 130	1.25	20
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15699	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.0952	0.0995	0.0996	0.085 to 0.115	95.2	70 to 130	4.42	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 8/19/20 13:35
Customer ID:
Delivery Date: 8/20/20 12:58

Description: Greene County Ash Pond Field Blank-5

Laboratory ID Number: BA15694

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15699	Sulfate	mg/L	-0.537	0.50	20.0	18.1	-0.776	18.2	18 to 22	90.5	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP
Collected: 8/19/20 08:53
Customer ID:
Submittal Date: 8/20/20 12:59

Laboratory ID Number: BA15695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:34		1.015	0.229	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 16:04		101.5	143	mg/L	10.15	50.75	
* Iron, Total	8/20/20 14:40	8/21/20 16:04		101.5	76.6	mg/L	2.03	5.075	
* Lithium, Total	8/20/20 14:40	8/21/20 15:34		1.015	0.0108	mg/L	0.01	0.02	J
* Magnesium, Total	8/20/20 14:40	8/21/20 15:34		1.015	26.1	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:34		1.015	34.7	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:23		101.5	74.7	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 18:16		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 18:16		1.015	0.00618	mg/L	0.001	0.005	
* Barium, Total	8/24/20 08:28	8/24/20 18:16		1.015	0.0591	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 18:16		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 18:16		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 18:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 18:16		1.015	0.0176	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 18:16		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 18:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 18:16		1.015	2.15	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/25/20 16:24		10.15	5.55	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 18:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 18:16		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:33		10.15	5.21	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/25/20 12:50	8/26/20 12:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	195	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	834	mg/L		50	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-37H

Location Code: WMWGREAP
Collected: 8/19/20 08:53
Customer ID:
Submittal Date: 8/20/20 12:59

Laboratory ID Number: BA15695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	195	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.04	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 12:44	8/21/20 12:44		1	13.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 13:58	8/21/20 13:58		1	0.141	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 15:02	8/25/20 15:02		25	402	mg/L	12.50	25	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/19/20 08:49	8/19/20 08:49			1089.57	uS/cm			FA
pH	8/19/20 08:49	8/19/20 08:49			5.95	SU			FA
Temperature	8/19/20 08:49	8/19/20 08:49			23.14	C			FA
Turbidity	8/19/20 08:49	8/19/20 08:49			15.7	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/19/20 08:53
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BA15695

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20
BA15699	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0947	0.0985	0.0984	0.085 to 0.115	94.7	70 to 130	3.93	20
BA15699	Manganese, Total	mg/L	0.000104	0.0001474	0.10	0.0952	0.0987	0.0999	0.085 to 0.115	95.2	70 to 130	3.61	20
BA15699	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.0960	0.0980	0.0955	0.085 to 0.115	96.0	70 to 130	2.06	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15699	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.103	0.0998	0.102	0.085 to 0.115	103	70 to 130	3.16	20
BA15699	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0985	0.101	0.0998	0.085 to 0.115	98.5	70 to 130	2.51	20
BA15699	Potassium, Total	mg/L	0.0154	0.3674	10.0	9.89	9.98	10.2	8.5 to 11.5	98.9	70 to 130	0.906	20
BA15699	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0943	0.0937	0.0919	0.085 to 0.115	94.3	70 to 130	0.638	20
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15699	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.0952	0.0995	0.0996	0.085 to 0.115	95.2	70 to 130	4.42	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15699	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.1000	0.101	0.0990	0.085 to 0.115	100	70 to 130	0.995	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15699	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0995	0.0979	0.0973	0.085 to 0.115	99.5	70 to 130	1.62	20
BA15699	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0959	0.0969	0.0982	0.085 to 0.115	95.9	70 to 130	1.04	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20
BA15699	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0954	0.0966	0.0955	0.085 to 0.115	95.4	70 to 130	1.25	20
BA15695	Mercury, Total by CVAA	mg/L	0.0000811	0.0005	0.004	0.00375	0.00373	0.00391	0.0034 to 0.0046	93.8	70 to 130	0.535	20
BA15699	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.104	0.101	0.085 to 0.115	101	70 to 130	2.93	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/19/20 08:53
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond - MW-37H

Laboratory ID Number: BA15695

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15699	Sulfate	mg/L	-0.537	0.50	20.0	18.1	-0.776	18.2	18 to 22	90.5	80 to 120	0.00	20
BA15695	Chloride	mg/L	-0.0259	0.50	10.0	23.5	13.8	10.3	9 to 11	96.0	80 to 120	0.722	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 8/19/20 11:30
Customer ID:
Submittal Date: 8/20/20 12:59

Laboratory ID Number: BA15696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:37		1.015	0.135	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 16:07		10.15	96.0	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 15:37		1.015	0.0883	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 15:37		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 15:37		1.015	7.43	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:37		1.015	3.26	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:42		1.015	0.0535	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 18:18		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 18:18		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 18:18		1.015	0.0678	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 18:18		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 18:18		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 18:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 18:18		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 18:18		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 18:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 18:18		1.015	2.02	mg/L	0.3	2.5	J
* Manganese, Total	8/24/20 08:28	8/24/20 18:18		1.015	0.0971	mg/L	0.001	0.005	
* Selenium, Total	8/24/20 08:28	8/24/20 18:18		1.015	0.0108	mg/L	0.002	0.01	
* Thallium, Total	8/24/20 08:28	8/24/20 18:18		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/24/20 17:44		1.015	0.0886	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	183	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	308	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-38H

Location Code: WMWGREAP
Collected: 8/19/20 11:30
Customer ID:
Submittal Date: 8/20/20 12:59

Laboratory ID Number: BA15696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	183	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.10	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 13:00	8/21/20 13:00		1	3.40	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 13:59	8/21/20 13:59		1	0.149	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 15:04	8/25/20 15:04		4	70.0	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/19/20 11:25	8/19/20 11:25			509.57	uS/cm			FA
pH	8/19/20 11:25	8/19/20 11:25			6.57	SU			FA
Temperature	8/19/20 11:25	8/19/20 11:25			22.47	C			FA
Turbidity	8/19/20 11:25	8/19/20 11:25			2.89	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/19/20 11:30
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BA15696

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.104	0.101	0.085 to 0.115	101	70 to 130	2.93	20
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20
BA15699	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.103	0.0998	0.102	0.085 to 0.115	103	70 to 130	3.16	20
BA15699	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0985	0.101	0.0998	0.085 to 0.115	98.5	70 to 130	2.51	20
BA15699	Potassium, Total	mg/L	0.0154	0.3674	10.0	9.89	9.98	10.2	8.5 to 11.5	98.9	70 to 130	0.906	20
BA15699	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0943	0.0937	0.0919	0.085 to 0.115	94.3	70 to 130	0.638	20
BA15696	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.10	0.184	0.185	0.0980	0.085 to 0.115	95.4	70 to 130	0.542	20
BA15699	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0947	0.0985	0.0984	0.085 to 0.115	94.7	70 to 130	3.93	20
BA15699	Manganese, Total	mg/L	0.000104	0.0001474	0.10	0.0952	0.0987	0.0999	0.085 to 0.115	95.2	70 to 130	3.61	20
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15699	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.0952	0.0995	0.0996	0.085 to 0.115	95.2	70 to 130	4.42	20
BA15699	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.0960	0.0980	0.0955	0.085 to 0.115	96.0	70 to 130	2.06	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15699	Mercury, Total by CVAA	mg/L	0.0000536	0.0005	0.004	0.00384	0.00386	0.00384	0.0034 to 0.0046	96.0	70 to 130	0.519	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20
BA15699	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0954	0.0966	0.0955	0.085 to 0.115	95.4	70 to 130	1.25	20
BA15696	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	0.258	0.260	0.209	0.17 to 0.23	102	70 to 130	0.772	20
BA15699	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.1000	0.101	0.0990	0.085 to 0.115	100	70 to 130	0.995	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15699	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0995	0.0979	0.0973	0.085 to 0.115	99.5	70 to 130	1.62	20
BA15699	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0959	0.0969	0.0982	0.085 to 0.115	95.9	70 to 130	1.04	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/19/20 11:30
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond - MW-38H

Laboratory ID Number: BA15696

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5
BA15699	Chloride	mg/L	-0.0303	0.50	10.0	10.2	0.194	10.3	9 to 11	102	80 to 120	0.00	20
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15699	Sulfate	mg/L	-0.537	0.50	20.0	18.1	-0.776	18.2	18 to 22	90.5	80 to 120	0.00	20
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP
Collected: 8/19/20 12:55
Customer ID:
Submittal Date: 8/20/20 12:59

Laboratory ID Number: BA15697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:40		1.015	0.213	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 15:40		1.015	27.4	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 15:40		1.015	0.723	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 15:40		1.015	0.0511	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 15:40		1.015	6.04	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:40		1.015	15.3	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 14:57		1.015	0.714	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 18:21		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 18:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 18:21		1.015	0.0394	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 18:21		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 18:21		1.015	0.000334	mg/L	0.0003	0.001	J
* Chromium, Total	8/24/20 08:28	8/24/20 18:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 18:21		1.015	0.00853	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 18:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 18:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 18:21		1.015	4.39	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 16:26		5.075	1.94	mg/L	0.005075	0.025375	
* Selenium, Total	8/24/20 08:28	8/24/20 18:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 18:21		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:36		5.075	1.73	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	55.2	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 13:20	8/26/20 11:15		1	171	mg/L		25	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-49H

Location Code: WMWGREAP
Collected: 8/19/20 12:55
Customer ID:
Submittal Date: 8/20/20 12:59

Laboratory ID Number: BA15697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	55.2	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.01	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 13:01	8/21/20 13:01		1	7.53	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 14:00	8/21/20 14:00		1	0.0823	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 15:05	8/25/20 15:05		4	70.7	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/19/20 12:52	8/19/20 12:52			299.53	uS/cm			FA
pH	8/19/20 12:52	8/19/20 12:52			6.14	SU			FA
Temperature	8/19/20 12:52	8/19/20 12:52			21.74	C			FA
Turbidity	8/19/20 12:52	8/19/20 12:52			1.5	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/19/20 12:55
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BA15697

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.104	0.101	0.085 to 0.115	101	70 to 130	2.93	20
BA15698	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.100	6.40	6.36	0.0980	0.085 to 0.115	200	70 to 130	0.627	20
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20
BA15699	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.103	0.0998	0.102	0.085 to 0.115	103	70 to 130	3.16	20
BA15699	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0985	0.101	0.0998	0.085 to 0.115	98.5	70 to 130	2.51	20
BA15699	Potassium, Total	mg/L	0.0154	0.3674	10.0	9.89	9.98	10.2	8.5 to 11.5	98.9	70 to 130	0.906	20
BA15699	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0943	0.0937	0.0919	0.085 to 0.115	94.3	70 to 130	0.638	20
BA15699	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.1000	0.101	0.0990	0.085 to 0.115	100	70 to 130	0.995	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15699	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0995	0.0979	0.0973	0.085 to 0.115	99.5	70 to 130	1.62	20
BA15699	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0959	0.0969	0.0982	0.085 to 0.115	95.9	70 to 130	1.04	20
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15699	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.0952	0.0995	0.0996	0.085 to 0.115	95.2	70 to 130	4.42	20
BA15698	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	9.84	9.74	0.209	0.17 to 0.23	115	70 to 130	1.02	20
BA15699	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.0960	0.0980	0.0955	0.085 to 0.115	96.0	70 to 130	2.06	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15699	Mercury, Total by CVAA	mg/L	0.0000536	0.0005	0.004	0.00384	0.00386	0.00384	0.0034 to 0.0046	96.0	70 to 130	0.519	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20
BA15699	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0954	0.0966	0.0955	0.085 to 0.115	95.4	70 to 130	1.25	20
BA15699	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0947	0.0985	0.0984	0.085 to 0.115	94.7	70 to 130	3.93	20
BA15699	Manganese, Total	mg/L	0.000104	0.0001474	0.10	0.0952	0.0987	0.0999	0.085 to 0.115	95.2	70 to 130	3.61	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/19/20 12:55
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond - MW-49H

Laboratory ID Number: BA15697

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15697	Fluoride	mg/L	0.0257	0.05	2.50	2.65	0.0764	2.58	2.25 to 2.75	103	80 to 120	7.44	20
BA15699	Sulfate	mg/L	-0.537	0.50	20.0	18.1	-0.776	18.2	18 to 22	90.5	80 to 120	0.00	20
BA15697	Solids, Dissolved	mg/L	0.0000	25			174	53.0	40 to 60			0.870	5
BA15699	Chloride	mg/L	-0.0303	0.50	10.0	10.2	0.194	10.3	9 to 11	102	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 8/19/20 13:55
Customer ID:
Submittal Date: 8/20/20 12:59

Laboratory ID Number: BA15698

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:43		1.015	1.26	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 16:10		10.15	59.3	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 16:10		10.15	9.13	mg/L	0.203	0.5075	
* Lithium, Total	8/20/20 14:40	8/21/20 15:43		1.015	0.0168	mg/L	0.01	0.02	J
* Magnesium, Total	8/20/20 14:40	8/21/20 15:43		1.015	11.7	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 15:43		1.015	36.4	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 15:26		10.15	9.61	mg/L	0.203	0.5075	RA
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 18:24		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 18:24		1.015	0.00445	mg/L	0.001	0.005	J
* Barium, Total	8/24/20 08:28	8/24/20 18:24		1.015	0.119	mg/L	0.002	0.01	
* Beryllium, Total	8/24/20 08:28	8/24/20 18:24		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 18:24		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 18:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 18:24		1.015	0.0370	mg/L	0.002	0.005	
* Lead, Total	8/24/20 08:28	8/24/20 18:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 18:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/24/20 08:28	8/24/20 18:24		1.015	3.50	mg/L	0.3	2.5	
* Manganese, Total	8/24/20 08:28	8/25/20 16:29		10.15	6.68	mg/L	0.01015	0.05075	
* Selenium, Total	8/24/20 08:28	8/24/20 18:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 18:24		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/24/20 11:30	8/25/20 18:38		10.15	6.20	mg/L	0.01015	0.05075	RA
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 13:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/26/20 11:16	8/26/20 11:50		1	236	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 15:15	8/26/20 07:15		1	371	mg/L		357.1	

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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-42H

Location Code: WMWGREAP
Collected: 8/19/20 13:55
Customer ID:
Submittal Date: 8/20/20 12:59

Laboratory ID Number: BA15698

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	236	mg/L			
Carbonate Alkalinity, (calc.)	8/26/20 11:16	8/26/20 11:50		1	0.06	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/21/20 13:03	8/21/20 13:03		1	18.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/21/20 14:12	8/21/20 14:12		1	0.0770	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 15:06	8/25/20 15:06		4	55.7	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/19/20 13:51	8/19/20 13:51			568.13	uS/cm			FA
pH	8/19/20 13:51	8/19/20 13:51			6.27	SU			FA
Temperature	8/19/20 13:51	8/19/20 13:51			20.43	C			FA
Turbidity	8/19/20 13:51	8/19/20 13:51			0.82	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.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/19/20 13:55
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BA15698

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.104	0.101	0.085 to 0.115	101	70 to 130	2.93	20
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15699	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.0952	0.0995	0.0996	0.085 to 0.115	95.2	70 to 130	4.42	20
BA15698	Manganese, Dissolved	mg/L	0.0000679	0.0001474	0.100	6.40	6.36	0.0980	0.085 to 0.115	200	70 to 130	0.627	20
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20
BA15699	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0947	0.0985	0.0984	0.085 to 0.115	94.7	70 to 130	3.93	20
BA15699	Manganese, Total	mg/L	0.000104	0.0001474	0.10	0.0952	0.0987	0.0999	0.085 to 0.115	95.2	70 to 130	3.61	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20
BA15699	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0954	0.0966	0.0955	0.085 to 0.115	95.4	70 to 130	1.25	20
BA15699	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.1000	0.101	0.0990	0.085 to 0.115	100	70 to 130	0.995	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15699	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0995	0.0979	0.0973	0.085 to 0.115	99.5	70 to 130	1.62	20
BA15699	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0959	0.0969	0.0982	0.085 to 0.115	95.9	70 to 130	1.04	20
BA15698	Iron, Dissolved	mg/L	-0.00000254	0.0176	0.2	9.84	9.74	0.209	0.17 to 0.23	115	70 to 130	1.02	20
BA15699	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.0960	0.0980	0.0955	0.085 to 0.115	96.0	70 to 130	2.06	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15699	Mercury, Total by CVAA	mg/L	0.0000536	0.0005	0.004	0.00384	0.00386	0.00384	0.0034 to 0.0046	96.0	70 to 130	0.519	20
BA15699	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.103	0.0998	0.102	0.085 to 0.115	103	70 to 130	3.16	20
BA15699	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0985	0.101	0.0998	0.085 to 0.115	98.5	70 to 130	2.51	20
BA15699	Potassium, Total	mg/L	0.0154	0.3674	10.0	9.89	9.98	10.2	8.5 to 11.5	98.9	70 to 130	0.906	20
BA15699	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0943	0.0937	0.0919	0.085 to 0.115	94.3	70 to 130	0.638	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/19/20 13:55
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond - MW-42H

Laboratory ID Number: BA15698

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Fluoride	mg/L	0.0283	0.05	2.50	2.56	0.0132	2.60	2.25 to 2.75	102	80 to 120	0.00	20
BA15698	Alkalinity, Total as CaCO3	mg/L					239	49.9	45.0 to 55.0			1.26	10
BA15699	Chloride	mg/L	-0.0303	0.50	10.0	10.2	0.194	10.3	9 to 11	102	80 to 120	0.00	20
BA15698	Solids, Dissolved	mg/L	1.00	25			400	54.0	40 to 60			3.76	5
BA15699	Sulfate	mg/L	-0.537	0.50	20.0	18.1	-0.776	18.2	18 to 22	90.5	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 8/19/20 14:15
Customer ID:
Submittal Date: 8/20/20 12:59

Laboratory ID Number: BA15699

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 15:46		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 15:46		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 15:46		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 15:46		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 15:46		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 15:46		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/24/20 08:28	8/24/20 18:26		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/31/20 10:29	8/31/20 14:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/24/20 15:15	8/26/20 07:15		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/21/20 13:04	8/21/20 13:04		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/21/20 14:13	8/21/20 14:13		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 15:07	8/25/20 15:07		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 8/19/20 14:15
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA15699

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Selenium, Total	mg/L	-0.0000414	0.001	0.10	0.101	0.104	0.101	0.085 to 0.115	101	70 to 130	2.93	20
BA15699	Lithium, Total	mg/L	-0.0000534	0.0154	0.200	0.187	0.186	0.188	0.17 to 0.23	93.5	70 to 130	0.536	20
BA15699	Chromium, Total	mg/L	0.0000419	0.00044	0.10	0.0947	0.0985	0.0984	0.085 to 0.115	94.7	70 to 130	3.93	20
BA15699	Manganese, Total	mg/L	0.000104	0.0001474	0.10	0.0952	0.0987	0.0999	0.085 to 0.115	95.2	70 to 130	3.61	20
BA15699	Arsenic, Total	mg/L	0.0000541	0.0001474	0.10	0.103	0.0998	0.102	0.085 to 0.115	103	70 to 130	3.16	20
BA15699	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0985	0.101	0.0998	0.085 to 0.115	98.5	70 to 130	2.51	20
BA15699	Potassium, Total	mg/L	0.0154	0.3674	10.0	9.89	9.98	10.2	8.5 to 11.5	98.9	70 to 130	0.906	20
BA15699	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0943	0.0937	0.0919	0.085 to 0.115	94.3	70 to 130	0.638	20
BA15699	Barium, Total	mg/L	0.0000116	0.0002	0.10	0.0960	0.0980	0.0955	0.085 to 0.115	96.0	70 to 130	2.06	20
BA15699	Calcium, Total	mg/L	0.000438	0.1518	5.00	5.14	5.11	5.15	4.25 to 5.75	103	70 to 130	0.585	20
BA15699	Mercury, Total by CVAA	mg/L	0.0000536	0.0005	0.004	0.00384	0.00386	0.00384	0.0034 to 0.0046	96.0	70 to 130	0.519	20
BA15699	Boron, Total	mg/L	0.000481	0.0650254	1.00	1.00	1.01	1.01	0.85 to 1.15	100	70 to 130	0.995	20
BA15699	Cobalt, Total	mg/L	-0.0000023	0.0001474	0.10	0.0952	0.0995	0.0996	0.085 to 0.115	95.2	70 to 130	4.42	20
BA15699	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.1000	0.101	0.0990	0.085 to 0.115	100	70 to 130	0.995	20
BA15699	Iron, Total	mg/L	0.000634	0.0176	0.2	0.207	0.206	0.206	0.17 to 0.23	104	70 to 130	0.484	20
BA15699	Magnesium, Total	mg/L	-0.00236	0.0462	5.00	5.06	5.03	5.09	4.25 to 5.75	101	70 to 130	0.595	20
BA15699	Molybdenum, Total	mg/L	0.0000042	0.0001474	0.10	0.0995	0.0979	0.0973	0.085 to 0.115	99.5	70 to 130	1.62	20
BA15699	Thallium, Total	mg/L	0.0000167	0.0001474	0.10	0.0959	0.0969	0.0982	0.085 to 0.115	95.9	70 to 130	1.04	20
BA15699	Sodium, Total	mg/L	0.00110	0.044	5.00	4.94	4.92	4.98	4.25 to 5.75	98.8	70 to 130	0.406	20
BA15699	Lead, Total	mg/L	0.0000137	0.0001474	0.10	0.0954	0.0966	0.0955	0.085 to 0.115	95.4	70 to 130	1.25	20

Comments:

Reported: 9/29/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 8/19/20 14:15
Customer ID:
Delivery Date: 8/20/20 12:59

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA15699

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA15699	Fluoride	mg/L	0.0283	0.05	2.50	2.56	0.0132	2.60	2.25 to 2.75	102	80 to 120	0.00	20
BA15699	Chloride	mg/L	-0.0303	0.50	10.0	10.2	0.194	10.3	9 to 11	102	80 to 120	0.00	20
BA15698	Solids, Dissolved	mg/L	1.00	25			400	54.0	40 to 60			3.76	5
BA15699	Sulfate	mg/L	-0.537	0.50	20.0	18.1	-0.776	18.2	18 to 22	90.5	80 to 120	0.00	20

Comments:

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

Definitions

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
B	Analyte found in reagent blank. Indicates possible reagent or background contamination.
FA	Field results were reviewed by the Water Field Group.
HT	Analysis was performed outside of the analytical holding time.
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: 08/12/2020 10:03

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-31	08/11/2020	10:58	6	Groundwater		BA14861
MW-14	08/11/2020	12:40	6	Groundwater		BA14862
MW-25	08/11/2020	14:31	6	Groundwater		BA14863
MW-53H	08/11/2020	15:44	6	Groundwater		BA14864

Relinquished By	Received By	Date/Time
[signature]	[signature]	08/12/2020 07:01
[signature]	Laura Mellff	08/12/2020 10:20

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	0.1 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody Groundwater

APC General Testing Laboratory

✔ Field Complete ☐ Outside Lab

✔ Lab Complete

Lab ETA 08/12/2020 10:31

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Correcting date to 8/11/2020. LBM 8/12/2020

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-36H	08/11/2020	10:45	6	Groundwater		BA14865
MW-39H	08/11/2020	12:40	6	Groundwater		BA14866
MW-16	08/11/2020	13:55	6	Groundwater		BA14867
MW-17	08/11/2020	15:35	6	Groundwater		BA14868

Relinquished By	Received By	Date/Time
		08/12/2020 07:07
		08/12/2020 10:38

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	✔
Turbidity ID	4677-23342-4-1	Cooler Temp	3.6 degrees C
Sample Event	1290	Thermometer ID	6603-34819-1-1
		pH Strip ID	8129-45506-2-1

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
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Alkalinity	250 mL	7	N/A	N/A
2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Anions	250 mL	8	N/A	N/A

Comments: Adding MW in front of 44H. LBM 8/13/20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-54H	08/12/2020	08:44	6	Groundwater		BA15085
MW-57H	08/12/2020	09:41	6	Groundwater		BA15086
MW-57H dup	08/12/2020	09:41	6	Sample Duplicate		BA15087
MW-44H	08/12/2020	10:45	6	Groundwater		BA15088
MW-32	08/12/2020	11:52	6	Groundwater		BA15089
MW-33	08/12/2020	13:04	6	Groundwater		BA15090
MW-5	08/12/2020	14:12	6	Groundwater		BA15091
MW-34HA	08/12/2020	15:24	6	Groundwater		BA15092
FB-2	08/12/2020	15:50	4	Field Blank		BA15093

Relinquished By	Received By	Date/Time
[signature]	[signature]	08/13/2020 10:47

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	0.0 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8129-45506-2-1

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: 08/13/2020 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: No Hg bottles collected for MW-40H and MW-40H Dup. TJD
Hg will be analyzed from the Metals bottle for MW-40H and MW-40H DUP. LBM 8/13/20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-40H	08/12/2020	09:45	5	Groundwater		BA15094
MW-40H Dup	08/12/2020	09:45	5	Sample Duplicate		BA15095
MW-15	08/12/2020	10:55	6	Groundwater		BA15096
MW-18	08/12/2020	12:30	6	Groundwater		BA15097
MW-24	08/12/2020	14:15	6	Groundwater		BA15098
MW-23	08/12/2020	15:35	6	Groundwater		BA15099
FB-3	08/12/2020	16:00	4	Field Blank		BA15100

Relinquished By	Received By	Date/Time
[signature]	[signature]	08/13/2020 10:59

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	✔
Turbidity ID	4677-23342-4-1	Cooler Temp	0.0 degrees C
Sample Event	1290	Thermometer ID	5408-27568-2-2
		pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody Groundwater

APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab

☑ Lab Complete

Lab ETA 08/19/2020 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-4	08/17/2020	12:21	6	Groundwater		BA15454
MW-1	08/17/2020	13:34	6	Groundwater		BA15455
MW-1 dup	08/17/2020	13:34	6	Sample Duplicate		BA15456
MW-2	08/17/2020	14:38	6	Groundwater		BA15457
MW-3	08/17/2020	15:36	6	Groundwater		BA15458
MW-12	08/18/2020	08:40	6	Groundwater		BA15459
MW-12 dup	08/18/2020	08:40	6	Sample Duplicate		BA15460
MW-21	08/18/2020	09:40	6	Groundwater		BA15461
MW-11	08/18/2020	10:42	6	Groundwater		BA15462
MW-10	08/18/2020	11:40	6	Groundwater		BA15463

Relinquished By	Received By	Date/Time
		08/18/2020 12:15
		08/19/2020 09:29

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	0.2 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8129-45506-2-1

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 08/19/2020 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-45H	08/17/2020	13:35	6	Groundwater		BA15445
MW-48H	08/17/2020	15:35	6	Groundwater		BA15446
FB-4	08/17/2020	16:05	4	Field Blank		BA15447
MW-26	08/18/2020	08:40	6	Groundwater		BA15448
MW-26 Dup	08/18/2020	08:40	6	Sample Duplicate		BA15449
MW-29	08/18/2020	10:00	6	Groundwater		BA15450
MW-30	08/18/2020	10:55	6	Groundwater		BA15451
MW-27	08/18/2020	11:55	6	Groundwater		BA15452
MW-28	08/18/2020	12:45	6	Groundwater		BA15453

Relinquished By	Received By	Date/Time
		08/18/2020 13:52
		08/19/2020 09:26

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	✔
Turbidity ID	4677-23342-4-1	Cooler Temp	0.0 degrees C
Sample Event	1290	Thermometer ID	5408-27568-2-2
		pH Strip ID	8129-45506-2-1

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 08/19/2020 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Dissolve Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: 1mL HNO3 added by LBM 8/19/20 at 1025 to dissolved metals MW-35H bottle to reach pH<2. (#8112-45260-2-1)
Correcting well description to MW-35H. LBM 8/19/20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-13	08/18/2020	09:02	6	Groundwater		BA15464
FB-1	08/18/2020	09:25	4	Field Blank		BA15465
MW-35H	08/18/2020	10:50	6	Groundwater		BA15466

Relinquished By	Received By	Date/Time
		08/19/2020 09:25

SmarTroll ID	7586-41443-5-2
Turbidity ID	5160-26211-1-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	0.2 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8129-45506-2-1

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 08/20/2020 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-37H	08/19/2020	08:53	6	Groundwater		BA15695
MW-38H	08/19/2020	11:30	6	Groundwater		BA15696
MW-49H	08/19/2020	12:55	6	Groundwater		BA15697
MW-42H	08/19/2020	13:55	6	Groundwater		BA15698
EB-1	08/19/2020	14:15	4	Equipment Blank		BA15699

Relinquished By	Received By	Date/Time
		08/20/2020 10:35

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	0.3 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8129-45506-2-1

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: 08/20/2020 11:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments: Correcting date for MW-41H & MW-9 to 8/18/20. LBM 8/20/20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-41H	08/18/2020	13:31	6	Groundwater		BA15688
MW-9	08/18/2020	15:12	6	Groundwater		BA15689
MW-6	08/19/2020	09:00	6	Groundwater		BA15690
MW-8	08/19/2020	10:52	6	Groundwater		BA15691
MW-7	08/19/2020	11:46	6	Groundwater		BA15692
MW-43H	08/19/2020	13:16	6	Groundwater		BA15693
FB-5	08/19/2020	13:35	4	Field Blank		BA15694

Relinquished By	Received By	Date/Time
[signature]	[signature]	08/20/2020 10:40

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	0.0 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8129-45506-2-1

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 08/12/2020 10:08

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	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-31. Correcting bottle count. LBM 8/12/2020

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-31	08/11/2020	10:58	3	Groundwater		BA14869
MW-14	08/11/2020	12:40	1	Groundwater		BA14870
MW-25	08/11/2020	14:31	1	Groundwater		BA14871
MW-53H	08/11/2020	15:44	1	Groundwater		BA14872

Relinquished By	Received By	Date/Time
[signature]	[signature]	08/12/2020 07:06
[signature]	[signature]	08/12/2020 10:28

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

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 08/12/2020 10:31

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	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-36H	08/11/2020	10:45	1	Groundwater		BA14873
MW-39H	08/11/2020	12:40	1	Groundwater		BA14874
MW-16	08/11/2020	13:55	1	Groundwater		BA14875
MW-17	08/11/2020	15:35	1	Groundwater		BA14876

Relinquished By	Received By	Date/Time
		08/12/2020 07:13
		08/12/2020 10:37

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

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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
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	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: Adding MW in front of 44H. LBM 8/13/20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-54H	08/12/2020	08:44	1	Groundwater		BA15101
MW-57H	08/12/2020	09:41	1	Groundwater		BA15102
MW-57H dup	08/12/2020	09:41	1	Sample Duplicate		BA15103
MW-44H	08/12/2020	10:45	1	Groundwater		BA15104
MW-32	08/12/2020	11:52	1	Groundwater		BA15105
MW-33	08/12/2020	13:04	1	Groundwater		BA15106
MW-5	08/12/2020	14:12	1	Groundwater		BA15107
MW-34HA	08/12/2020	15:24	1	Groundwater		BA15108
FB-2	08/12/2020	15:50	1	Field Blank		BA15109

Relinquished By	Received By	Date/Time
		08/13/2020 10:46

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

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 08/13/2020 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	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-40H	08/12/2020	09:45	1	Groundwater		BA15110
MW-40H Dup	08/12/2020	09:45	1	Sample Duplicate		BA15111
MW-15	08/12/2020	10:55	1	Groundwater		BA15112
MW-18	08/12/2020	12:30	1	Groundwater		BA15113
MW-24	08/12/2020	14:15	1	Groundwater		BA15114
MW-23	08/12/2020	15:35	1	Groundwater		BA15115
FB-3	08/12/2020	16:00	1	Field Blank		BA15116

Relinquished By	Received By	Date/Time
		08/13/2020 10:59

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

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 08/19/2020 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	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
PZ-4	08/17/2020	12:21	1	Groundwater		BA15476
MW-1	08/17/2020	13:34	1	Groundwater		BA15477
MW-1 dup	08/17/2020	13:34	1	Sample Duplicate		BA15478
MW-2	08/17/2020	14:38	1	Groundwater		BA15479
MW-3	08/17/2020	15:36	1	Groundwater		BA15480
MW-12	08/18/2020	08:40	1	Groundwater		BA15481
MW-12 dup	08/18/2020	08:40	1	Sample Duplicate		BA15482
MW-21	08/18/2020	09:40	1	Groundwater		BA15483
MW-11	08/18/2020	10:42	1	Groundwater		BA15484
MW-10	08/18/2020	11:40	1	Groundwater		BA15485

Relinquished By	Received By	Date/Time
		08/18/2020 12:15
		08/19/2020 09:28

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

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 08/19/2020 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	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 @ MW-48H

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-45H	08/17/2020	13:35	1	Groundwater		BA15467
MW-48H	08/17/2020	15:35	3	Groundwater		BA15468
FB-4	08/17/2020	16:05	1	Field Blank		BA15469
MW-26	08/18/2020	08:40	1	Groundwater		BA15470
MW-26 Dup	08/18/2020	08:40	1	Sample Duplicate		BA15471
MW-29	08/18/2020	10:00	1	Groundwater		BA15472
MW-30	08/18/2020	10:55	1	Groundwater		BA15473
MW-27	08/18/2020	11:55	1	Groundwater		BA15474
MW-28	08/18/2020	12:45	1	Groundwater		BA15475

Relinquished By	Received By	Date/Time
		08/18/2020 13:52
		08/19/2020 09:27

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

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 08/19/2020 09:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	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: MS and MSD collected @ MW-13. Correcting well description to MW-35H. LBM 8/19/20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-13	08/18/2020	09:02	3	Groundwater		BA15486
FB-1	08/18/2020	09:25	1	Field Blank		BA15487
MW-35H	08/18/2020	10:50	1	Groundwater		BA15488

Relinquished By	Received By	Date/Time
		08/19/2020 09:25

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2	✔
Turbidity ID	5160-26211-1-1	Cooler Temp	N/A
Sample Event	1290	Thermometer ID	N/A
		pH Strip ID	8129-45506-2-1

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 08/20/2020 12:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	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-37H	08/19/2020	08:53	1	Groundwater		BA15707
MW-38H	08/19/2020	11:30	1	Groundwater		BA15708
MW-49H	08/19/2020	12:55	1	Groundwater		BA15709
MW-42H	08/19/2020	13:55	1	Groundwater		BA15710
EB-1	08/19/2020	14:15	1	Equipment Blank		BA15711

Relinquished By	Received By	Date/Time
		08/20/2020 10:35

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody Groundwater

APC General Testing Laboratory

✔ Field Complete ✔ Outside Lab

✔ Lab Complete

Lab ETA 08/20/2020 11:30

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	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 date for MW-41H & MW-9 to 8/18/20. LBM 8/20/20

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-41H	08/18/2020	13:31	1	Groundwater		BA15700
MW-9	08/18/2020	15:12	1	Groundwater		BA15701
MW-6	08/19/2020	09:00	1	Groundwater		BA15702
MW-8	08/19/2020	10:52	1	Groundwater		BA15703
MW-7	08/19/2020	11:46	1	Groundwater		BA15704
MW-43H	08/19/2020	13:16	1	Groundwater		BA15705
FB-5	08/19/2020	13:35	1	Field Blank		BA15706

Relinquished By	Received By	Date/Time
[signature]	[signature]	08/20/2020 10:40

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1290

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-192471-1
Laboratory SDG: Greene County Ash Pond 1290
Client Project/Site: CCR Plant Greene
Revision: 1

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Authorized for release by:
10/16/2020 10:35:10 AM

Cheyenne Whitmire, Project Manager II
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-192471-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-192471-1

RAD

Method 9315: Radium-226 prep batch 160-480833. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA14869 MW-31 (400-192471-1), BA14869 MW-31 (400-192471-1[MS]), BA14869 MW-31 (400-192471-1[MSD]), BA14870 MW-14 (400-192471-2), BA14871 MW-25 (400-192471-3), BA14872 MW-53H (400-192471-4), BA14873 MW-36H (400-192471-5), BA14874 MW-39H (400-192471-6), BA14875 MW-16 (400-192471-7), BA14876 MW-17 (400-192471-8), BA15101 MW-54H (400-192471-9), BA15102 MW-57H (400-192471-10), BA15103 MW-57H DUP (400-192471-11), BA15104 MW-44H (400-192471-12), BA15105 MW-32 (400-192471-13), BA15106 MW-33 (400-192471-14), BA15107 MW-5 (400-192471-15), BA15108 MW-34HA (400-192471-16), BA15109 FB-2 (400-192471-17), (LCS 160-480833/1-A) and (MB 160-480833/23-A)

Method 9315: Radium-226 prep batch 160-480955. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA15110 MW-40H (400-192471-18), BA15111 MW-40H DUP (400-192471-19), BA15112 MW-15 (400-192471-20), BA15113 MW-18 (400-192471-21), BA15114 MW-24 (400-192471-22), BA15115 MW-23 (400-192471-23), BA15116 FB-3 (400-192471-24), BA15467 MW-45H (400-192471-25), BA15468 MW-48H (400-192471-26), BA15468 MW-48H (400-192471-26[MS]), BA15468 MW-48H (400-192471-26[MSD]), BA15469 FB-4 (400-192471-27), BA15470 MW-26 (400-192471-28), BA15471 MW-26 DUP (400-192471-29), BA15472 MW-29 (400-192471-30), BA15473 MW-30 (400-192471-31), BA15474 MW-27 (400-192471-32), BA15475 MW-28 (400-192471-33), BA15476 PZ-4 (400-192471-34), BA15477 MW-1 (400-192471-35), BA15478 MW-1 DUP (400-192471-36), (LCS 160-480955/1-A) and (MB 160-480955/23-A)

Method 9315: Radium-226 prep batch 160-481082. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA15709 MW-49H (400-192471-56), BA15710 MW-42H (400-192471-57), BA15711 EB-1 (400-192471-58), (LCS 160-481082/1-A), (LCSD 160-481082/2-A) and (MB 160-481082/24-A)

Method 9315: Radium-226 prep batch 160-480970. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA15479 MW-2 (400-192471-37), BA15480 MW-3 (400-192471-38), BA15481 MW-12 (400-192471-39), BA15482 MW-12 DUP (400-192471-40), BA15483 MW-21 (400-192471-41), BA15484 MW-11 (400-192471-42), BA15485 MW-10 (400-192471-43), BA15486 MW-13 (400-192471-44), BA15486 MW-13 (400-192471-44[MS]), BA15486 MW-13 (400-192471-44[MSD]), BA15487 FB-1 (400-192471-45), BA15488 MW-35H (400-192471-46), BA15700 MW-41H (400-192471-47), BA15701 MW-9 (400-192471-48), BA15702 MW-6 (400-192471-49), BA15703 MW-8 (400-192471-50), BA15704 MW-7 (400-192471-51), BA15705 MW-43H (400-192471-52), BA15706 FB-5 (400-192471-53), BA15707 MW-37H (400-192471-54), BA15708 MW-38H (400-192471-55), (LCS 160-480970/1-A) and (MB 160-480970/23-A)

Method 9320: Radium-228 prep batch 160-480841. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA14869 MW-31 (400-192471-1), BA14869 MW-31 (400-192471-1[MS]), BA14869 MW-31 (400-192471-1[MSD]), BA14870 MW-14 (400-192471-2), BA14871 MW-25 (400-192471-3), BA14872 MW-53H (400-192471-4), BA14873 MW-36H (400-192471-5), BA14874 MW-39H (400-192471-6), BA14875 MW-16 (400-192471-7), BA14876 MW-17 (400-192471-8), BA15101 MW-54H (400-192471-9), BA15102 MW-57H (400-192471-10), BA15103 MW-57H DUP (400-192471-11), BA15104 MW-44H (400-192471-12), BA15105 MW-32 (400-192471-13), BA15106 MW-33 (400-192471-14), BA15107 MW-5 (400-192471-15), BA15108 MW-34HA (400-192471-16), BA15109 FB-2 (400-192471-17), (LCS 160-480841/1-A) and (MB 160-480841/23-A)

Method 9320: Radium-228 prep batch 160-480971. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA15479 MW-2 (400-192471-37), BA15480 MW-3 (400-192471-38), BA15481 MW-12 (400-192471-39), BA15482 MW-12 DUP (400-192471-40), BA15483 MW-21 (400-192471-41), BA15484 MW-11 (400-192471-42), BA15485 MW-10 (400-192471-43), BA15486 MW-13 (400-192471-44), BA15486 MW-13 (400-192471-44[MS]), BA15486 MW-13 (400-192471-44[MSD]), BA15487 FB-1 (400-192471-45), BA15488 MW-35H (400-192471-46),

Job ID: 400-192471-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

BA15700 MW-41H (400-192471-47), BA15701 MW-9 (400-192471-48), BA15702 MW-6 (400-192471-49), BA15703 MW-8 (400-192471-50), BA15704 MW-7 (400-192471-51), BA15705 MW-43H (400-192471-52), BA15706 FB-5 (400-192471-53), BA15707 MW-37H (400-192471-54), BA15708 MW-38H (400-192471-55), (LCS 160-480971/1-A) and (MB 160-480971/23-A)

Method 9320: Radium-228 prep batch 160-481085. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA15709 MW-49H (400-192471-56), BA15710 MW-42H (400-192471-57), BA15711 EB-1 (400-192471-58), (LCS 160-481085/1-A), (LCSD 160-481085/2-A) and (MB 160-481085/24-A)

Method 9320: Radium-228 prep batch 160-480966. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA15110 MW-40H (400-192471-18), BA15111 MW-40H DUP (400-192471-19), BA15112 MW-15 (400-192471-20), BA15113 MW-18 (400-192471-21), BA15114 MW-24 (400-192471-22), BA15115 MW-23 (400-192471-23), BA15116 FB-3 (400-192471-24), BA15467 MW-45H (400-192471-25), BA15468 MW-48H (400-192471-26), BA15468 MW-48H (400-192471-26[MS]), BA15468 MW-48H (400-192471-26[MSD]), BA15469 FB-4 (400-192471-27), BA15470 MW-26 (400-192471-28), BA15471 MW-26 DUP (400-192471-29), BA15472 MW-29 (400-192471-30), BA15473 MW-30 (400-192471-31), BA15474 MW-27 (400-192471-32), BA15475 MW-28 (400-192471-33), BA15476 PZ-4 (400-192471-34), BA15477 MW-1 (400-192471-35), BA15478 MW-1 DUP (400-192471-36), (LCS 160-480966/1-A) and (MB 160-480966/23-A)

Method PrecSep_0: Radium 228 Prep Batch 160-480841. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA14869 MW-31 (400-192471-1), BA14869 MW-31 (400-192471-1[MS]), BA14869 MW-31 (400-192471-1[MSD]), BA14870 MW-14 (400-192471-2), BA14871 MW-25 (400-192471-3), BA14872 MW-53H (400-192471-4), BA14873 MW-36H (400-192471-5), BA14874 MW-39H (400-192471-6), BA14875 MW-16 (400-192471-7), BA14876 MW-17 (400-192471-8), BA15101 MW-54H (400-192471-9), BA15102 MW-57H (400-192471-10), BA15103 MW-57H DUP (400-192471-11), BA15104 MW-44H (400-192471-12), BA15105 MW-32 (400-192471-13), BA15106 MW-33 (400-192471-14), BA15107 MW-5 (400-192471-15), BA15108 MW-34HA (400-192471-16) and BA15109 FB-2 (400-192471-17).

Method PrecSep_0: Radium 228 Prep Batch 160-480966. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA15110 MW-40H (400-192471-18), BA15111 MW-40H DUP (400-192471-19), BA15112 MW-15 (400-192471-20), BA15113 MW-18 (400-192471-21), BA15114 MW-24 (400-192471-22), BA15115 MW-23 (400-192471-23), BA15116 FB-3 (400-192471-24), BA15467 MW-45H (400-192471-25), BA15468 MW-48H (400-192471-26), BA15468 MW-48H (400-192471-26[MS]), BA15468 MW-48H (400-192471-26[MSD]), BA15469 FB-4 (400-192471-27), BA15470 MW-26 (400-192471-28), BA15471 MW-26 DUP (400-192471-29), BA15472 MW-29 (400-192471-30), BA15473 MW-30 (400-192471-31), BA15474 MW-27 (400-192471-32), BA15475 MW-28 (400-192471-33), BA15476 PZ-4 (400-192471-34), BA15477 MW-1 (400-192471-35) and BA15478 MW-1 DUP (400-192471-36).

Method PrecSep_0: Radium 228 Prep Batch 160-480971. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA15479 MW-2 (400-192471-37), BA15480 MW-3 (400-192471-38), BA15481 MW-12 (400-192471-39), BA15482 MW-12 DUP (400-192471-40), BA15483 MW-21 (400-192471-41), BA15484 MW-11 (400-192471-42), BA15485 MW-10 (400-192471-43), BA15486 MW-13 (400-192471-44), BA15486 MW-13 (400-192471-44[MS]), BA15486 MW-13 (400-192471-44[MSD]), BA15487 FB-1 (400-192471-45), BA15488 MW-35H (400-192471-46), BA15700 MW-41H (400-192471-47), BA15701 MW-9 (400-192471-48), BA15702 MW-6 (400-192471-49), BA15703 MW-8 (400-192471-50), BA15704 MW-7 (400-192471-51), BA15705 MW-43H (400-192471-52), BA15706 FB-5 (400-192471-53), BA15707 MW-37H (400-192471-54) and BA15708 MW-38H (400-192471-55).

Method PrecSep_0: Radium 228 Prep Batch 160-481085. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA15709 MW-49H (400-192471-56), BA15710 MW-42H (400-192471-57) and BA15711 EB-1 (400-192471-58). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-480833. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA14869 MW-31 (400-192471-1), BA14869 MW-31 (400-192471-1[MS]), BA14869 MW-31 (400-192471-1[MSD]), BA14870 MW-14 (400-192471-2), BA14871 MW-25 (400-192471-3), BA14872 MW-53H (400-192471-4), BA14873 MW-36H (400-192471-5), BA14874 MW-39H (400-192471-6), BA14875 MW-16 (400-192471-7), BA14876 MW-17 (400-192471-8), BA15101 MW-54H (400-192471-9), BA15102 MW-57H (400-192471-10), BA15103 MW-57H DUP (400-192471-11), BA15104 MW-44H

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Laboratory: Eurofins TestAmerica, Pensacola (Continued)

(400-192471-12), BA15105 MW-32 (400-192471-13), BA15106 MW-33 (400-192471-14), BA15107 MW-5 (400-192471-15), BA15108 MW-34HA (400-192471-16) and BA15109 FB-2 (400-192471-17).

Method PrecSep-21: Radium 226 Prep Batch 160-480955. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA15110 MW-40H (400-192471-18), BA15111 MW-40H DUP (400-192471-19), BA15112 MW-15 (400-192471-20), BA15113 MW-18 (400-192471-21), BA15114 MW-24 (400-192471-22), BA15115 MW-23 (400-192471-23), BA15116 FB-3 (400-192471-24), BA15467 MW-45H (400-192471-25), BA15468 MW-48H (400-192471-26), BA15468 MW-48H (400-192471-26[MS]), BA15468 MW-48H (400-192471-26[MSD]), BA15469 FB-4 (400-192471-27), BA15470 MW-26 (400-192471-28), BA15471 MW-26 DUP (400-192471-29), BA15472 MW-29 (400-192471-30), BA15473 MW-30 (400-192471-31), BA15474 MW-27 (400-192471-32), BA15475 MW-28 (400-192471-33), BA15476 PZ-4 (400-192471-34), BA15477 MW-1 (400-192471-35) and BA15478 MW-1 DUP (400-192471-36).

Method PrecSep-21: Radium 226 Prep Batch 160-480970. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA15479 MW-2 (400-192471-37), BA15480 MW-3 (400-192471-38), BA15481 MW-12 (400-192471-39), BA15482 MW-12 DUP (400-192471-40), BA15483 MW-21 (400-192471-41), BA15484 MW-11 (400-192471-42), BA15485 MW-10 (400-192471-43), BA15486 MW-13 (400-192471-44), BA15486 MW-13 (400-192471-44[MS]), BA15486 MW-13 (400-192471-44[MSD]), BA15487 FB-1 (400-192471-45), BA15488 MW-35H (400-192471-46), BA15700 MW-41H (400-192471-47), BA15701 MW-9 (400-192471-48), BA15702 MW-6 (400-192471-49), BA15703 MW-8 (400-192471-50), BA15704 MW-7 (400-192471-51), BA15705 MW-43H (400-192471-52), BA15706 FB-5 (400-192471-53), BA15707 MW-37H (400-192471-54) and BA15708 MW-38H (400-192471-55).

Method PrecSep-21: Radium 226 Prep Batch 160-481082. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA15709 MW-49H (400-192471-56), BA15710 MW-42H (400-192471-57) and BA15711 EB-1 (400-192471-58). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Revision
The report being provided is a revision of the original report sent on 9/28/2020. The report (revision 1) is being revised due to: Results did not seem inline with expected Field Blank results on sample 17. Samples was rerun at a redued volume and seemed to be what was expected.

Method 9320: Radium-228 prep batch 160-485186: The following samples did not meet the requested limit (RL). The sample volume was reduced due to re-analysis. The method blank (MB) and laboratory control sample (LCS) were also run at the reduced aliquot following NELAC guidance to match the nominal volume of client samples in the prep batch. The data have been reported with this narrative. BA15109 FB-2 (400-192471-17), (LCS 160-485186/1-A), (MB 160-485186/6-A), (400-193048-A-21-G), (400-193048-A-21-H MS) and (400-193048-A-21-I MSD)

Method PrecSep_0: Radium 228 Prep Batch 160-485186: The following samples were prepared at a reduced aliquot due to re extract of the samples: BA15109 FB-2 (400-192471-17).

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-192471-1	BA14869 MW-31	Water	08/11/20 10:58	08/24/20 14:05	
400-192471-2	BA14870 MW-14	Water	08/11/20 12:40	08/24/20 14:05	
400-192471-3	BA14871 MW-25	Water	08/11/20 14:31	08/24/20 14:05	
400-192471-4	BA14872 MW-53H	Water	08/11/20 15:44	08/24/20 14:05	
400-192471-5	BA14873 MW-36H	Water	08/11/20 10:45	08/24/20 14:05	
400-192471-6	BA14874 MW-39H	Water	08/11/20 12:40	08/24/20 14:05	
400-192471-7	BA14875 MW-16	Water	08/11/20 13:55	08/24/20 14:05	
400-192471-8	BA14876 MW-17	Water	08/11/20 15:35	08/24/20 14:05	
400-192471-9	BA15101 MW-54H	Water	08/12/20 08:44	08/24/20 14:05	
400-192471-10	BA15102 MW-57H	Water	08/12/20 09:41	08/24/20 14:05	
400-192471-11	BA15103 MW-57H DUP	Water	08/12/20 09:41	08/24/20 14:05	
400-192471-12	BA15104 MW-44H	Water	08/12/20 10:45	08/24/20 14:05	
400-192471-13	BA15105 MW-32	Water	08/12/20 11:52	08/24/20 14:05	
400-192471-14	BA15106 MW-33	Water	08/12/20 13:04	08/24/20 14:05	
400-192471-15	BA15107 MW-5	Water	08/12/20 14:12	08/24/20 14:05	
400-192471-16	BA15108 MW-34HA	Water	08/12/20 15:24	08/24/20 14:05	
400-192471-17	BA15109 FB-2	Water	08/12/20 15:50	08/24/20 14:05	
400-192471-18	BA15110 MW-40H	Water	08/12/20 09:45	08/24/20 14:05	
400-192471-19	BA15111 MW-40H DUP	Water	08/12/20 09:45	08/24/20 14:05	
400-192471-20	BA15112 MW-15	Water	08/12/20 10:55	08/24/20 14:05	
400-192471-21	BA15113 MW-18	Water	08/12/20 12:30	08/24/20 14:05	
400-192471-22	BA15114 MW-24	Water	08/12/20 14:15	08/24/20 14:05	
400-192471-23	BA15115 MW-23	Water	08/12/20 15:35	08/24/20 14:05	
400-192471-24	BA15116 FB-3	Water	08/12/20 16:00	08/24/20 14:05	
400-192471-25	BA15467 MW-45H	Water	08/17/20 13:35	08/24/20 14:05	
400-192471-26	BA15468 MW-48H	Water	08/17/20 15:35	08/24/20 14:05	
400-192471-27	BA15469 FB-4	Water	08/17/20 16:05	08/24/20 14:05	
400-192471-28	BA15470 MW-26	Water	08/18/20 08:40	08/24/20 14:05	
400-192471-29	BA15471 MW-26 DUP	Water	08/18/20 08:40	08/24/20 14:05	
400-192471-30	BA15472 MW-29	Water	08/18/20 10:00	08/24/20 14:05	
400-192471-31	BA15473 MW-30	Water	08/18/20 10:55	08/24/20 14:05	
400-192471-32	BA15474 MW-27	Water	08/18/20 11:55	08/24/20 14:05	
400-192471-33	BA15475 MW-28	Water	08/18/20 12:45	08/24/20 14:05	
400-192471-34	BA15476 PZ-4	Water	08/17/20 12:21	08/24/20 14:05	
400-192471-35	BA15477 MW-1	Water	08/17/20 13:34	08/24/20 14:05	
400-192471-36	BA15478 MW-1 DUP	Water	08/17/20 13:34	08/24/20 14:05	
400-192471-37	BA15479 MW-2	Water	08/17/20 14:38	08/24/20 14:05	
400-192471-38	BA15480 MW-3	Water	08/17/20 15:36	08/24/20 14:05	
400-192471-39	BA15481 MW-12	Water	08/18/20 08:40	08/24/20 14:05	
400-192471-40	BA15482 MW-12 DUP	Water	08/18/20 08:40	08/24/20 14:05	
400-192471-41	BA15483 MW-21	Water	08/18/20 09:40	08/24/20 14:05	
400-192471-42	BA15484 MW-11	Water	08/18/20 10:42	08/24/20 14:05	
400-192471-43	BA15485 MW-10	Water	08/18/20 11:40	08/24/20 14:05	
400-192471-44	BA15486 MW-13	Water	08/18/20 09:02	08/24/20 14:05	
400-192471-45	BA15487 FB-1	Water	08/18/20 09:25	08/24/20 14:05	
400-192471-46	BA15488 MW-35H	Water	08/18/20 10:50	08/24/20 14:05	
400-192471-47	BA15700 MW-41H	Water	08/18/20 13:31	08/24/20 14:05	
400-192471-48	BA15701 MW-9	Water	08/18/20 15:12	08/24/20 14:05	
400-192471-49	BA15702 MW-6	Water	08/19/20 09:00	08/24/20 14:05	
400-192471-50	BA15703 MW-8	Water	08/19/06 10:52	08/24/20 14:05	
400-192471-51	BA15704 MW-7	Water	08/19/06 11:46	08/24/20 14:05	
400-192471-52	BA15705 MW-43H	Water	08/19/06 13:16	08/24/20 14:05	
400-192471-53	BA15706 FB-5	Water	08/19/06 13:35	08/24/20 14:05	

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-192471-54	BA15707 MW-37H	Water	08/19/06 08:53	08/24/20 14:05	
400-192471-55	BA15708 MW-38H	Water	08/19/06 11:30	08/24/20 14:05	
400-192471-56	BA15709 MW-49H	Water	08/19/06 12:55	08/24/20 14:05	
400-192471-57	BA15710 MW-42H	Water	08/19/06 13:55	08/24/20 14:05	
400-192471-58	BA15711 EB-1	Water	08/19/06 14:15	08/24/20 14:05	

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14869 MW-31

Date Collected: 08/11/20 10:58
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-1

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.146	U	0.143	0.143	1.00	0.222	pCi/L	08/26/20 12:36	09/17/20 09:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:15*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.621**		0.372	0.377	1.00	0.561	pCi/L	08/26/20 14:13	09/14/20 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*
Y Carrier	*76.6*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.767**		0.399	0.403	5.00	0.561	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14870 MW-14

Date Collected: 08/11/20 12:40
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.414		0.182	0.186	1.00	0.195	pCi/L	08/26/20 12:36	09/17/20 09:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.22		0.429	0.444	1.00	0.576	pCi/L	08/26/20 14:13	09/14/20 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*
Y Carrier	*80.4*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.64		0.466	0.481	5.00	0.576	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14871 MW-25

Date Collected: 08/11/20 14:31
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-3

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.215**		0.137	0.138	1.00	0.173	pCi/L	08/26/20 12:36	09/17/20 09:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.296	U	0.343	0.344	1.00	0.565	pCi/L	08/26/20 14:13	09/14/20 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*
Y Carrier	*79.6*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.511	U	0.369	0.371	5.00	0.565	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14872 MW-53H

Date Collected: 08/11/20 15:44
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-4

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.651		0.214	0.222	1.00	0.179	pCi/L	08/26/20 12:36	09/17/20 09:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.911		0.426	0.434	1.00	0.616	pCi/L	08/26/20 14:13	09/14/20 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*
Y Carrier	*78.5*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.56		0.477	0.487	5.00	0.616	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14873 MW-36H

Date Collected: 08/11/20 10:45
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-5

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0268	U	0.0985	0.0985	1.00	0.195	pCi/L	08/26/20 12:36	09/17/20 09:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.9*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.196	U	0.410	0.410	1.00	0.700	pCi/L	08/26/20 14:13	09/14/20 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.9*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*
Y Carrier	*74.8*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:07*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.223	U	0.422	0.422	5.00	0.700	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14874 MW-39H

Date Collected: 08/11/20 12:40
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-6

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.618		0.217	0.224	1.00	0.192	pCi/L	08/26/20 12:36	09/17/20 09:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.40		0.477	0.494	1.00	0.632	pCi/L	08/26/20 14:13	09/14/20 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:08*	*1*
Y Carrier	*77.0*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.02		0.524	0.542	5.00	0.632	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14875 MW-16

Date Collected: 08/11/20 13:55
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-7

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.402		0.178	0.182	1.00	0.184	pCi/L	08/26/20 12:36	09/17/20 09:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.5*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:16*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.08		0.489	0.499	1.00	0.718	pCi/L	08/26/20 14:13	09/14/20 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.5*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:08*	*1*
Y Carrier	*78.1*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.48		0.520	0.531	5.00	0.718	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14876 MW-17

Date Collected: 08/11/20 15:35
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-8

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.871		0.249	0.261	1.00	0.210	pCi/L	08/26/20 12:36	09/17/20 09:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:17*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.27		0.424	0.440	1.00	0.559	pCi/L	08/26/20 14:13	09/14/20 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:08*	*1*
Y Carrier	*78.9*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.14		0.492	0.512	5.00	0.559	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15101 MW-54H

Lab Sample ID: 400-192471-9

Date Collected: 08/12/20 08:44
Date Received: 08/24/20 14:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.791		0.238	0.249	1.00	0.204	pCi/L	08/26/20 12:36	09/17/20 09:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:17*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.35		0.419	0.437	1.00	0.538	pCi/L	08/26/20 14:13	09/14/20 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.5*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:08*	*1*
Y Carrier	*79.6*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.14		0.482	0.503	5.00	0.538	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15102 MW-57H

Date Collected: 08/12/20 09:41
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-10

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.607**		0.226	0.232	1.00	0.229	pCi/L	08/26/20 12:36	09/17/20 09:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*08/26/20 12:36*	*09/17/20 09:32*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.383	U	0.450	0.451	1.00	0.742	pCi/L	08/26/20 14:13	09/14/20 12:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*
Y Carrier	*81.5*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.991**		0.504	0.507	5.00	0.742	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15103 MW-57H DUP

Lab Sample ID: 400-192471-11

Date Collected: 08/12/20 09:41
Matrix: Water
Date Received: 08/24/20 14:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.613		0.204	0.211	1.00	0.164	pCi/L	08/26/20 12:36	09/17/20 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*40 - 110*	*08/26/20 12:36*	*09/17/20 12:10*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.25		0.582	0.655	1.00	0.637	pCi/L	08/26/20 14:13	09/14/20 12:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*
Y Carrier	*82.6*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.86		0.617	0.688	5.00	0.637	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15104 MW-44H

Lab Sample ID: 400-192471-12

Date Collected: 08/12/20 10:45
Date Received: 08/24/20 14:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.205		0.142	0.143	1.00	0.192	pCi/L	08/26/20 12:36	09/17/20 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*40 - 110*	*08/26/20 12:36*	*09/17/20 12:10*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.87		0.646	0.738	1.00	0.702	pCi/L	08/26/20 14:13	09/14/20 12:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*
Y Carrier	*80.0*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.07		0.661	0.752	5.00	0.702	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15105 MW-32

Date Collected: 08/12/20 11:52
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-13

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.166		0.124	0.124	1.00	0.166	pCi/L	08/26/20 12:36	09/17/20 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*08/26/20 12:36*	*09/17/20 12:10*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.01		0.608	0.668	1.00	0.739	pCi/L	08/26/20 14:13	09/14/20 12:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*
Y Carrier	*81.9*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.18		0.621	0.679	5.00	0.739	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15106 MW-33

Date Collected: 08/12/20 13:04
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-14

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.414		0.182	0.186	1.00	0.205	pCi/L	08/26/20 12:36	09/17/20 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*40 - 110*	*08/26/20 12:36*	*09/17/20 12:10*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.00		0.559	0.624	1.00	0.623	pCi/L	08/26/20 14:13	09/14/20 12:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.2*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*
Y Carrier	*80.7*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.41		0.588	0.651	5.00	0.623	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15107 MW-5

Date Collected: 08/12/20 14:12
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-15

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.915		0.247	0.261	1.00	0.192	pCi/L	08/26/20 12:36	09/17/20 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*08/26/20 12:36*	*09/17/20 12:10*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.16		0.441	0.454	1.00	0.611	pCi/L	08/26/20 14:13	09/14/20 12:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*
Y Carrier	*79.6*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.08		0.505	0.524	5.00	0.611	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15108 MW-34HA

Date Collected: 08/12/20 15:24
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-16

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.248		0.168	0.170	1.00	0.237	pCi/L	08/26/20 12:36	09/17/20 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*40 - 110*	*08/26/20 12:36*	*09/17/20 12:10*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.85		0.478	0.508	1.00	0.591	pCi/L	08/26/20 14:13	09/14/20 12:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.4*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*
Y Carrier	*83.7*		*40 - 110*	*08/26/20 14:13*	*09/14/20 12:12*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.10		0.507	0.536	5.00	0.591	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15109 FB-2

Date Collected: 08/12/20 15:50
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-17

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0389	U	0.103	0.103	1.00	0.195	pCi/L	08/26/20 12:36	09/17/20 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*08/26/20 12:36*	*09/17/20 12:11*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.54**	**G**	0.935	0.946	1.00	1.42	pCi/L	10/09/20 08:55	10/14/20 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.4*		*40 - 110*	*10/09/20 08:55*	*10/14/20 12:08*	*1*
Y Carrier	*79.6*		*40 - 110*	*10/09/20 08:55*	*10/14/20 12:08*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.58**		0.941	0.952	5.00	1.42	pCi/L		09/23/20 12:27	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15110 MW-40H

Date Collected: 08/12/20 09:45
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-18

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0273	U	0.214	0.214	1.00	0.439	pCi/L	08/27/20 17:58	09/18/20 20:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.8*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:43*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.901**		0.488	0.495	1.00	0.725	pCi/L	08/27/20 18:22	09/18/20 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.8*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*
Y Carrier	*80.0*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.928**		0.533	0.539	5.00	0.725	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15111 MW-40H DUP

Lab Sample ID: 400-192471-19

Date Collected: 08/12/20 09:45
Matrix: Water
Date Received: 08/24/20 14:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.246	U	0.277	0.277	1.00	0.438	pCi/L	08/27/20 17:58	09/18/20 20:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.0*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:43*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.346	U	0.477	0.478	1.00	0.796	pCi/L	08/27/20 18:22	09/18/20 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.0*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*
Y Carrier	*82.2*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.592	U	0.552	0.552	5.00	0.796	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15112 MW-15

Date Collected: 08/12/20 10:55
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-20

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.369	U	0.335	0.337	1.00	0.510	pCi/L	08/27/20 17:58	09/18/20 20:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.6*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:43*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.614	U	0.510	0.513	1.00	0.811	pCi/L	08/27/20 18:22	09/18/20 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.6*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*
Y Carrier	*74.8*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.983**		0.610	0.614	5.00	0.811	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15113 MW-18

Date Collected: 08/12/20 12:30
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-21

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.434	U	0.366	0.368	1.00	0.555	pCi/L	08/27/20 17:58	09/18/20 20:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:43*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.738	U	0.499	0.503	1.00	0.774	pCi/L	08/27/20 18:22	09/18/20 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*
Y Carrier	*77.4*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.17**		0.619	0.623	5.00	0.774	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15114 MW-24

Date Collected: 08/12/20 14:15
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-22

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.532**		0.321	0.325	1.00	0.410	pCi/L	08/27/20 17:58	09/18/20 20:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.7*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:43*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.386	U	0.426	0.428	1.00	0.699	pCi/L	08/27/20 18:22	09/18/20 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.7*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*
Y Carrier	*74.4*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.919**		0.533	0.537	5.00	0.699	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15115 MW-23

Date Collected: 08/12/20 15:35
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-23

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.498	U	0.353	0.356	1.00	0.505	pCi/L	08/27/20 17:58	09/18/20 20:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:43*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.488	U	0.523	0.525	1.00	0.857	pCi/L	08/27/20 18:22	09/18/20 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*
Y Carrier	*73.6*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.986**		0.631	0.634	5.00	0.857	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15116 FB-3

Date Collected: 08/12/20 16:00
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-24

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.188	U	0.258	0.259	1.00	0.436	pCi/L	08/27/20 17:58	09/18/20 20:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.4*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.745	U	0.492	0.497	1.00	0.756	pCi/L	08/27/20 18:22	09/18/20 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.4*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*
Y Carrier	*75.5*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.933**		0.556	0.560	5.00	0.756	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15467 MW-45H

Date Collected: 08/17/20 13:35
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-25

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.246	U	0.226	0.227	1.00	0.336	pCi/L	08/27/20 17:58	09/18/20 20:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.9*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.917**		0.426	0.435	1.00	0.612	pCi/L	08/27/20 18:22	09/18/20 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.9*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*
Y Carrier	*76.3*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:02*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.16**		0.482	0.491	5.00	0.612	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15468 MW-48H

Date Collected: 08/17/20 15:35
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-26

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.189	U	0.222	0.223	1.00	0.358	pCi/L	08/27/20 17:58	09/18/20 20:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:46*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.922**		0.545	0.552	1.00	0.839	pCi/L	08/27/20 18:22	09/18/20 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*
Y Carrier	*77.8*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.11**		0.588	0.595	5.00	0.839	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15469 FB-4

Date Collected: 08/17/20 16:05
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-27

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.219	U	0.233	0.233	1.00	0.364	pCi/L	08/27/20 17:58	09/18/20 20:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:47*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.231	U	0.498	0.498	1.00	0.845	pCi/L	08/27/20 18:22	09/18/20 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*
Y Carrier	*80.4*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.450	U	0.550	0.550	5.00	0.845	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15470 MW-26

Date Collected: 08/18/20 08:40
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-28

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.139	U	0.273	0.273	1.00	0.489	pCi/L	08/27/20 17:58	09/18/20 20:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.2*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:39*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**2.16**		0.612	0.644	1.00	0.790	pCi/L	08/27/20 18:22	09/18/20 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.2*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*
Y Carrier	*82.2*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**2.30**		0.670	0.699	5.00	0.790	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15471 MW-26 DUP

Lab Sample ID: 400-192471-29

Date Collected: 08/18/20 08:40
Matrix: Water
Date Received: 08/24/20 14:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0840	U	0.242	0.242	1.00	0.456	pCi/L	08/27/20 17:58	09/18/20 20:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.2*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:39*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.838**		0.460	0.467	1.00	0.692	pCi/L	08/27/20 18:22	09/18/20 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.2*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*
Y Carrier	*84.9*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.922**		0.520	0.526	5.00	0.692	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15472 MW-29

Date Collected: 08/18/20 10:00
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-30

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0857	U	0.237	0.237	1.00	0.447	pCi/L	08/27/20 17:58	09/18/20 20:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.3*		*40 - 110*	*08/27/20 17:58*	*09/18/20 20:39*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.79**		0.701	0.783	1.00	0.778	pCi/L	08/27/20 18:22	09/18/20 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.3*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*
Y Carrier	*80.4*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**3.88**		0.740	0.818	5.00	0.778	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15473 MW-30

Date Collected: 08/18/20 10:55
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-31

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.237	U	0.232	0.233	1.00	0.350	pCi/L	08/27/20 17:58	09/18/20 23:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*40 - 110*	*08/27/20 17:58*	*09/18/20 23:03*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.09**		0.632	0.693	1.00	0.718	pCi/L	08/27/20 18:22	09/18/20 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*
Y Carrier	*86.0*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**3.33**		0.673	0.731	5.00	0.718	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15474 MW-27

Date Collected: 08/18/20 11:55
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-32

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.426	U	0.311	0.313	1.00	0.429	pCi/L	08/27/20 17:58	09/18/20 23:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.3*		*40 - 110*	*08/27/20 17:58*	*09/18/20 23:03*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0782	U	0.478	0.478	1.00	0.837	pCi/L	08/27/20 18:22	09/18/20 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.3*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*
Y Carrier	*86.7*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:13*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.504	U	0.570	0.571	5.00	0.837	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15475 MW-28

Date Collected: 08/18/20 12:45
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-33

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.327**		0.243	0.245	1.00	0.326	pCi/L	08/27/20 17:58	09/18/20 23:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.7*		*40 - 110*	*08/27/20 17:58*	*09/18/20 23:03*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.470	U	0.412	0.415	1.00	0.660	pCi/L	08/27/20 18:22	09/18/20 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.7*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:32*	*1*
Y Carrier	*81.9*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:32*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.797**		0.478	0.482	5.00	0.660	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15476 PZ-4

Date Collected: 08/17/20 12:21
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-34

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.782**		0.377	0.384	1.00	0.447	pCi/L	08/27/20 17:58	09/18/20 23:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.2*		*40 - 110*	*08/27/20 17:58*	*09/18/20 23:03*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.381	U	0.408	0.410	1.00	0.667	pCi/L	08/27/20 18:22	09/18/20 12:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.2*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:38*	*1*
Y Carrier	*84.9*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:38*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.16**		0.556	0.562	5.00	0.667	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15477 MW-1

Date Collected: 08/17/20 13:34
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-35

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.787		0.421	0.427	1.00	0.547	pCi/L	08/27/20 17:58	09/18/20 23:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.4*		*40 - 110*	*08/27/20 17:58*	*09/18/20 23:03*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.675		0.424	0.428	1.00	0.637	pCi/L	08/27/20 18:22	09/18/20 12:42	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.4*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:42*	*1*
Y Carrier	*83.0*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:42*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.46		0.598	0.605	5.00	0.637	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15478 MW-1 DUP

Lab Sample ID: 400-192471-36

Date Collected: 08/17/20 13:34
Date Received: 08/24/20 14:05

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.724		0.392	0.397	1.00	0.474	pCi/L	08/27/20 17:58	09/18/20 23:03	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*65.1*		*40 - 110*	*08/27/20 17:58*	*09/18/20 23:03*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.16		0.635	0.644	1.00	0.959	pCi/L	08/27/20 18:22	09/18/20 12:43	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*65.1*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:43*	*1*
Y Carrier	*85.2*		*40 - 110*	*08/27/20 18:22*	*09/18/20 12:43*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.88		0.746	0.757	5.00	0.959	pCi/L		09/23/20 12:28	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15479 MW-2

Date Collected: 08/17/20 14:38
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-37

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.518**		0.197	0.203	1.00	0.216	pCi/L	08/27/20 19:31	09/21/20 12:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*08/27/20 19:31*	*09/21/20 12:47*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.300	U	0.411	0.412	1.00	0.686	pCi/L	08/27/20 20:37	09/17/20 11:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*
Y Carrier	*76.6*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.817**		0.456	0.459	5.00	0.686	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15480 MW-3

Date Collected: 08/17/20 15:36
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-38

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.504**		0.181	0.186	1.00	0.170	pCi/L	08/27/20 19:31	09/21/20 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.9*		*40 - 110*	*08/27/20 19:31*	*09/21/20 12:48*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.234	U	0.426	0.426	1.00	0.720	pCi/L	08/27/20 20:37	09/17/20 11:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.9*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*
Y Carrier	*76.6*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.738**		0.463	0.465	5.00	0.720	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15481 MW-12

Date Collected: 08/18/20 08:40
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-39

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0586	U	0.0869	0.0871	1.00	0.149	pCi/L	08/27/20 19:31	09/21/20 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*08/27/20 19:31*	*09/21/20 12:48*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0767	U	0.357	0.357	1.00	0.626	pCi/L	08/27/20 20:37	09/17/20 11:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*
Y Carrier	*75.9*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.135	U	0.367	0.367	5.00	0.626	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15482 MW-12 DUP

Date Collected: 08/18/20 08:40
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-40

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0462	U	0.0915	0.0916	1.00	0.167	pCi/L	08/27/20 19:31	09/21/20 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.9*		*40 - 110*	*08/27/20 19:31*	*09/21/20 12:48*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.450	U	0.410	0.412	1.00	0.658	pCi/L	08/27/20 20:37	09/17/20 11:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.9*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*
Y Carrier	*77.4*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.496	U	0.420	0.422	5.00	0.658	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15483 MW-21

Date Collected: 08/18/20 09:40
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-41

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0374	U	0.0907	0.0908	1.00	0.171	pCi/L	08/27/20 19:31	09/21/20 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.0*		*40 - 110*	*08/27/20 19:31*	*09/21/20 12:48*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0479	U	0.358	0.358	1.00	0.651	pCi/L	08/27/20 20:37	09/17/20 11:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.0*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*
Y Carrier	*78.1*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0105	U	0.369	0.369	5.00	0.651	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15484 MW-11

Date Collected: 08/18/20 10:42
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-42

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.168		0.118	0.119	1.00	0.157	pCi/L	08/27/20 19:31	09/21/20 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*40 - 110*	*08/27/20 19:31*	*09/21/20 12:48*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.289	U	0.385	0.386	1.00	0.640	pCi/L	08/27/20 20:37	09/17/20 11:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*
Y Carrier	*75.5*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:50*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.457	U	0.403	0.404	5.00	0.640	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15485 MW-10

Date Collected: 08/18/20 11:40
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-43

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.708**		0.200	0.210	1.00	0.148	pCi/L	08/27/20 19:31	09/21/20 12:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*08/27/20 19:31*	*09/21/20 12:49*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.373	U	0.387	0.388	1.00	0.631	pCi/L	08/27/20 20:37	09/17/20 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*
Y Carrier	*74.0*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.08**		0.436	0.441	5.00	0.631	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15486 MW-13

Date Collected: 08/18/20 09:02
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-44

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.301**		0.150	0.153	1.00	0.169	pCi/L	08/27/20 19:31	09/21/20 12:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.7*		*40 - 110*	*08/27/20 19:31*	*09/21/20 12:50*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.267	U	0.440	0.440	1.00	0.741	pCi/L	08/27/20 20:37	09/17/20 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.7*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*
Y Carrier	*75.1*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.568	U	0.465	0.466	5.00	0.741	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15487 FB-1

Date Collected: 08/18/20 09:25
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-45

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0920	U	0.115	0.115	1.00	0.189	pCi/L	08/27/20 19:31	09/21/20 12:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*40 - 110*	*08/27/20 19:31*	*09/21/20 12:50*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0970	U	0.394	0.394	1.00	0.689	pCi/L	08/27/20 20:37	09/17/20 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*
Y Carrier	*75.5*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.189	U	0.410	0.410	5.00	0.689	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15488 MW-35H

Date Collected: 08/18/20 10:50
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-46

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136	U	0.106	0.106	1.00	0.144	pCi/L	08/27/20 19:31	09/21/20 15:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:05*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.500	U	0.407	0.409	1.00	0.643	pCi/L	08/27/20 20:37	09/17/20 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*
Y Carrier	*73.3*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.636	U	0.421	0.423	5.00	0.643	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15700 MW-41H

Date Collected: 08/18/20 13:31
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-47

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.281**		0.148	0.150	1.00	0.174	pCi/L	08/27/20 19:31	09/21/20 15:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.2*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:05*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.460	U	0.413	0.415	1.00	0.663	pCi/L	08/27/20 20:37	09/17/20 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.2*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*
Y Carrier	*75.9*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.742**		0.439	0.441	5.00	0.663	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15701 MW-9

Date Collected: 08/18/20 15:12
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-48

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.743		0.211	0.221	1.00	0.151	pCi/L	08/27/20 19:31	09/21/20 15:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.7*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:05*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.847		0.467	0.473	1.00	0.706	pCi/L	08/27/20 20:37	09/17/20 11:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.7*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*
Y Carrier	*78.1*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:51*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.59		0.512	0.522	5.00	0.706	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15702 MW-6

Date Collected: 08/19/20 09:00
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-49

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.332		0.160	0.163	1.00	0.190	pCi/L	08/27/20 19:31	09/21/20 15:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:05*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.628		0.399	0.403	1.00	0.613	pCi/L	08/27/20 20:37	09/17/20 11:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:52*	*1*
Y Carrier	*80.4*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:52*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.960		0.430	0.435	5.00	0.613	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15703 MW-8

Date Collected: 08/19/06 10:52
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-50

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.391**		0.175	0.179	1.00	0.211	pCi/L	08/27/20 19:31	09/21/20 15:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:05*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.208	U	0.364	0.365	1.00	0.617	pCi/L	08/27/20 20:37	09/17/20 11:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:52*	*1*
Y Carrier	*78.5*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:52*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.600	U	0.404	0.407	5.00	0.617	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15704 MW-7

Date Collected: 08/19/06 11:46
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-51

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.265		0.143	0.145	1.00	0.174	pCi/L	08/27/20 19:31	09/21/20 15:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:06*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.775		0.429	0.435	1.00	0.647	pCi/L	08/27/20 20:37	09/17/20 11:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*
Y Carrier	*80.7*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.04		0.452	0.459	5.00	0.647	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15705 MW-43H

Date Collected: 08/19/06 13:16
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-52

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.553		0.179	0.186	1.00	0.156	pCi/L	08/27/20 19:31	09/21/20 15:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:06*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.43		0.432	0.451	1.00	0.564	pCi/L	08/27/20 20:37	09/17/20 11:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*
Y Carrier	*81.5*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.99		0.468	0.488	5.00	0.564	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15706 FB-5

Date Collected: 08/19/06 13:35
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-53

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0587	U	0.0812	0.0813	1.00	0.195	pCi/L	08/27/20 19:31	09/21/20 15:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:06*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.387	U	0.276	0.278	1.00	0.564	pCi/L	08/27/20 20:37	09/17/20 11:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*
Y Carrier	*83.0*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.446	U	0.288	0.290	5.00	0.564	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15707 MW-37H

Date Collected: 08/19/06 08:53
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-54

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0482	U	0.0959	0.0960	1.00	0.174	pCi/L	08/27/20 19:31	09/21/20 15:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.5*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:07*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.946**		0.413	0.422	1.00	0.588	pCi/L	08/27/20 20:37	09/17/20 11:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.5*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*
Y Carrier	*84.5*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.994**		0.424	0.433	5.00	0.588	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15708 MW-38H

Lab Sample ID: 400-192471-55

Date Collected: 08/19/06 11:30
Matrix: Water
Date Received: 08/24/20 14:05

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0849	U	0.0950	0.0953	1.00	0.151	pCi/L	08/27/20 19:31	09/21/20 15:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.9*		*40 - 110*	*08/27/20 19:31*	*09/21/20 15:07*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.262	U	0.402	0.403	1.00	0.675	pCi/L	08/27/20 20:37	09/17/20 11:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.9*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*
Y Carrier	*83.7*		*40 - 110*	*08/27/20 20:37*	*09/17/20 11:53*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.347	U	0.413	0.414	5.00	0.675	pCi/L		09/23/20 12:29	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15709 MW-49H

Date Collected: 08/19/06 12:55
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-56

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.190**		0.133	0.134	1.00	0.174	pCi/L	08/28/20 16:42	09/21/20 10:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*40 - 110*	*08/28/20 16:42*	*09/21/20 10:49*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.180	U	0.378	0.379	1.00	0.699	pCi/L	08/28/20 17:17	09/18/20 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*40 - 110*	*08/28/20 17:17*	*09/18/20 11:56*	*1*
Y Carrier	*82.2*		*40 - 110*	*08/28/20 17:17*	*09/18/20 11:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0107	U	0.401	0.402	5.00	0.699	pCi/L		09/23/20 12:30	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15710 MW-42H

Date Collected: 08/19/06 13:55
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-57

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.458**		0.201	0.205	1.00	0.227	pCi/L	08/28/20 16:42	09/21/20 10:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*08/28/20 16:42*	*09/21/20 10:50*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.229	U	0.365	0.365	1.00	0.615	pCi/L	08/28/20 17:17	09/18/20 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*08/28/20 17:17*	*09/18/20 11:56*	*1*
Y Carrier	*81.9*		*40 - 110*	*08/28/20 17:17*	*09/18/20 11:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.687**		0.417	0.419	5.00	0.615	pCi/L		09/23/20 12:30	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15711 EB-1

Date Collected: 08/19/06 14:15
Date Received: 08/24/20 14:05

Lab Sample ID: 400-192471-58

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0463	U	0.135	0.136	1.00	0.250	pCi/L	08/28/20 16:42	09/21/20 10:50	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*08/28/20 16:42*	*09/21/20 10:50*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.273	U	0.345	0.346	1.00	0.573	pCi/L	08/28/20 17:17	09/18/20 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*08/28/20 17:17*	*09/18/20 11:56*	*1*
Y Carrier	*80.7*		*40 - 110*	*08/28/20 17:17*	*09/18/20 11:56*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.320	U	0.370	0.372	5.00	0.573	pCi/L		09/23/20 12:30	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14869 MW-31
Lab Sample ID: 400-192471-1

Date Collected: 08/11/20 10:58
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:15	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482447	09/14/20 12:07	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA14870 MW-14
Lab Sample ID: 400-192471-2

Date Collected: 08/11/20 12:40
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:16	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482447	09/14/20 12:07	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA14871 MW-25
Lab Sample ID: 400-192471-3

Date Collected: 08/11/20 14:31
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:16	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482447	09/14/20 12:07	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA14872 MW-53H
Lab Sample ID: 400-192471-4

Date Collected: 08/11/20 15:44
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:16	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482447	09/14/20 12:07	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA14873 MW-36H — Lab Sample ID: 400-192471-5

Date Collected: 08/11/20 10:45 — **Matrix: Water**
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:16	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482447	09/14/20 12:07	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA14874 MW-39H — Lab Sample ID: 400-192471-6

Date Collected: 08/11/20 12:40 — **Matrix: Water**
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:16	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482447	09/14/20 12:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA14875 MW-16 — Lab Sample ID: 400-192471-7

Date Collected: 08/11/20 13:55 — **Matrix: Water**
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:16	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482447	09/14/20 12:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA14876 MW-17 — Lab Sample ID: 400-192471-8

Date Collected: 08/11/20 15:35 — **Matrix: Water**
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482447	09/14/20 12:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15101 MW-54H
Lab Sample ID: 400-192471-9

Date Collected: 08/12/20 08:44
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482447	09/14/20 12:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA15102 MW-57H
Lab Sample ID: 400-192471-10

Date Collected: 08/12/20 09:41
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 09:32	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482446	09/14/20 12:12	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA15103 MW-57H DUP
Lab Sample ID: 400-192471-11

Date Collected: 08/12/20 09:41
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 12:10	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482446	09/14/20 12:12	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA15104 MW-44H
Lab Sample ID: 400-192471-12

Date Collected: 08/12/20 10:45
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 12:10	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482446	09/14/20 12:12	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15105 MW-32
Lab Sample ID: 400-192471-13

Date Collected: 08/12/20 11:52
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 12:10	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482446	09/14/20 12:12	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA15106 MW-33
Lab Sample ID: 400-192471-14

Date Collected: 08/12/20 13:04
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 12:10	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482446	09/14/20 12:12	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA15107 MW-5
Lab Sample ID: 400-192471-15

Date Collected: 08/12/20 14:12
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 12:10	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482446	09/14/20 12:12	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA15108 MW-34HA
Lab Sample ID: 400-192471-16

Date Collected: 08/12/20 15:24
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 12:10	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480841	08/26/20 14:13	AVB	TAL SL
Total/NA	Analysis	9320		1	482446	09/14/20 12:12	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15109 FB-2
Lab Sample ID: 400-192471-17

Date Collected: 08/12/20 15:50
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480833	08/26/20 12:36	AVB	TAL SL
Total/NA	Analysis	9315		1	482632	09/17/20 12:11	SCB	TAL SL
Total/NA	Prep	PrecSep_0			485186	10/09/20 08:55	AVB	TAL SL
Total/NA	Analysis	9320		1	485712	10/14/20 12:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483461	09/23/20 12:27	CMM	TAL SL

Client Sample ID: BA15110 MW-40H
Lab Sample ID: 400-192471-18

Date Collected: 08/12/20 09:45
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482957	09/18/20 12:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15111 MW-40H DUP
Lab Sample ID: 400-192471-19

Date Collected: 08/12/20 09:45
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482957	09/18/20 12:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15112 MW-15
Lab Sample ID: 400-192471-20

Date Collected: 08/12/20 10:55
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482957	09/18/20 12:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15113 MW-18
Lab Sample ID: 400-192471-21

Date Collected: 08/12/20 12:30
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482957	09/18/20 12:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15114 MW-24
Lab Sample ID: 400-192471-22

Date Collected: 08/12/20 14:15
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482957	09/18/20 12:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15115 MW-23
Lab Sample ID: 400-192471-23

Date Collected: 08/12/20 15:35
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:43	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482957	09/18/20 12:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15116 FB-3
Lab Sample ID: 400-192471-24

Date Collected: 08/12/20 16:00
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:46	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482957	09/18/20 12:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15467 MW-45H
Lab Sample ID: 400-192471-25

Date Collected: 08/17/20 13:35
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:46	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482957	09/18/20 12:02	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15468 MW-48H
Lab Sample ID: 400-192471-26

Date Collected: 08/17/20 15:35
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:46	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482974	09/18/20 12:13	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15469 FB-4
Lab Sample ID: 400-192471-27

Date Collected: 08/17/20 16:05
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:47	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482974	09/18/20 12:13	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15470 MW-26
Lab Sample ID: 400-192471-28

Date Collected: 08/18/20 08:40
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:39	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482974	09/18/20 12:13	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15471 MW-26 DUP
Lab Sample ID: 400-192471-29

Date Collected: 08/18/20 08:40
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:39	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482974	09/18/20 12:13	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15472 MW-29
Lab Sample ID: 400-192471-30

Date Collected: 08/18/20 10:00
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 20:39	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482974	09/18/20 12:13	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15473 MW-30
Lab Sample ID: 400-192471-31

Date Collected: 08/18/20 10:55
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 23:03	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482974	09/18/20 12:13	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15474 MW-27
Lab Sample ID: 400-192471-32

Date Collected: 08/18/20 11:55
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 23:03	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482974	09/18/20 12:13	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15475 MW-28
Lab Sample ID: 400-192471-33

Date Collected: 08/18/20 12:45
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 23:03	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482973	09/18/20 12:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15476 PZ-4
Lab Sample ID: 400-192471-34

Date Collected: 08/17/20 12:21
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 23:03	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482973	09/18/20 12:38	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15477 MW-1
Lab Sample ID: 400-192471-35

Date Collected: 08/17/20 13:34
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 23:03	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482973	09/18/20 12:42	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Client Sample ID: BA15478 MW-1 DUP
Lab Sample ID: 400-192471-36

Date Collected: 08/17/20 13:34
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480955	08/27/20 17:58	AVB	TAL SL
Total/NA	Analysis	9315		1	482960	09/18/20 23:03	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480966	08/27/20 18:22	AVB	TAL SL
Total/NA	Analysis	9320		1	482974	09/18/20 12:43	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483462	09/23/20 12:28	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15479 MW-2
Lab Sample ID: 400-192471-37

Date Collected: 08/17/20 14:38
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 12:47	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:50	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15480 MW-3
Lab Sample ID: 400-192471-38

Date Collected: 08/17/20 15:36
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 12:48	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:50	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15481 MW-12
Lab Sample ID: 400-192471-39

Date Collected: 08/18/20 08:40
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 12:48	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:50	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15482 MW-12 DUP
Lab Sample ID: 400-192471-40

Date Collected: 08/18/20 08:40
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 12:48	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:50	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15483 MW-21
Lab Sample ID: 400-192471-41

Date Collected: 08/18/20 09:40
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 12:48	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:50	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15484 MW-11
Lab Sample ID: 400-192471-42

Date Collected: 08/18/20 10:42
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 12:48	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:50	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15485 MW-10
Lab Sample ID: 400-192471-43

Date Collected: 08/18/20 11:40
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 12:49	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:51	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15486 MW-13
Lab Sample ID: 400-192471-44

Date Collected: 08/18/20 09:02
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 12:50	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:51	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15487 FB-1
Lab Sample ID: 400-192471-45

Date Collected: 08/18/20 09:25
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 12:50	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:51	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15488 MW-35H
Lab Sample ID: 400-192471-46

Date Collected: 08/18/20 10:50
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:05	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:51	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15700 MW-41H
Lab Sample ID: 400-192471-47

Date Collected: 08/18/20 13:31
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:05	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:51	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15701 MW-9
Lab Sample ID: 400-192471-48

Date Collected: 08/18/20 15:12
Date Received: 08/24/20 14:05
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:05	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482644	09/17/20 11:51	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15702 MW-6
Lab Sample ID: 400-192471-49

Date Collected: 08/19/20 09:00
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:05	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482646	09/17/20 11:52	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15703 MW-8
Lab Sample ID: 400-192471-50

Date Collected: 08/19/06 10:52
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:05	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482646	09/17/20 11:52	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15704 MW-7
Lab Sample ID: 400-192471-51

Date Collected: 08/19/06 11:46
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:06	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482646	09/17/20 11:53	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15705 MW-43H
Lab Sample ID: 400-192471-52

Date Collected: 08/19/06 13:16
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:06	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482646	09/17/20 11:53	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15706 FB-5
Lab Sample ID: 400-192471-53

Date Collected: 08/19/06 13:35
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:06	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482646	09/17/20 11:53	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15707 MW-37H
Lab Sample ID: 400-192471-54

Date Collected: 08/19/06 08:53
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:07	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482646	09/17/20 11:53	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15708 MW-38H
Lab Sample ID: 400-192471-55

Date Collected: 08/19/06 11:30
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			480970	08/27/20 19:31	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 15:07	SCB	TAL SL
Total/NA	Prep	PrecSep_0			480971	08/27/20 20:37	AVB	TAL SL
Total/NA	Analysis	9320		1	482646	09/17/20 11:53	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483463	09/23/20 12:29	CMM	TAL SL

Client Sample ID: BA15709 MW-49H
Lab Sample ID: 400-192471-56

Date Collected: 08/19/06 12:55
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481082	08/28/20 16:42	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 10:49	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481085	08/28/20 17:17	AVB	TAL SL
Total/NA	Analysis	9320		1	482946	09/18/20 11:56	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483464	09/23/20 12:30	CMM	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Client Sample ID: BA15710 MW-42H

Lab Sample ID: 400-192471-57

Date Collected: 08/19/06 13:55
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481082	08/28/20 16:42	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 10:50	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481085	08/28/20 17:17	AVB	TAL SL
Total/NA	Analysis	9320		1	482946	09/18/20 11:56	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483464	09/23/20 12:30	CMM	TAL SL

Client Sample ID: BA15711 EB-1

Lab Sample ID: 400-192471-58

Date Collected: 08/19/06 14:15
Matrix: Water
Date Received: 08/24/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481082	08/28/20 16:42	AVB	TAL SL
Total/NA	Analysis	9315		1	483033	09/21/20 10:50	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481085	08/28/20 17:17	AVB	TAL SL
Total/NA	Analysis	9320		1	482946	09/18/20 11:56	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	483464	09/23/20 12:30	CMM	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Rad

Prep Batch: 480833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-1	BA14869 MW-31	Total/NA	Water	PrecSep-21	
400-192471-2	BA14870 MW-14	Total/NA	Water	PrecSep-21	
400-192471-3	BA14871 MW-25	Total/NA	Water	PrecSep-21	
400-192471-4	BA14872 MW-53H	Total/NA	Water	PrecSep-21	
400-192471-5	BA14873 MW-36H	Total/NA	Water	PrecSep-21	
400-192471-6	BA14874 MW-39H	Total/NA	Water	PrecSep-21	
400-192471-7	BA14875 MW-16	Total/NA	Water	PrecSep-21	
400-192471-8	BA14876 MW-17	Total/NA	Water	PrecSep-21	
400-192471-9	BA15101 MW-54H	Total/NA	Water	PrecSep-21	
400-192471-10	BA15102 MW-57H	Total/NA	Water	PrecSep-21	
400-192471-11	BA15103 MW-57H DUP	Total/NA	Water	PrecSep-21	
400-192471-12	BA15104 MW-44H	Total/NA	Water	PrecSep-21	
400-192471-13	BA15105 MW-32	Total/NA	Water	PrecSep-21	
400-192471-14	BA15106 MW-33	Total/NA	Water	PrecSep-21	
400-192471-15	BA15107 MW-5	Total/NA	Water	PrecSep-21	
400-192471-16	BA15108 MW-34HA	Total/NA	Water	PrecSep-21	
400-192471-17	BA15109 FB-2	Total/NA	Water	PrecSep-21	
MB 160-480833/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-480833/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-192471-1 MS	BA14869 MW-31	Total/NA	Water	PrecSep-21	
400-192471-1 MSD	BA14869 MW-31	Total/NA	Water	PrecSep-21	

Prep Batch: 480841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-1	BA14869 MW-31	Total/NA	Water	PrecSep_0	
400-192471-2	BA14870 MW-14	Total/NA	Water	PrecSep_0	
400-192471-3	BA14871 MW-25	Total/NA	Water	PrecSep_0	
400-192471-4	BA14872 MW-53H	Total/NA	Water	PrecSep_0	
400-192471-5	BA14873 MW-36H	Total/NA	Water	PrecSep_0	
400-192471-6	BA14874 MW-39H	Total/NA	Water	PrecSep_0	
400-192471-7	BA14875 MW-16	Total/NA	Water	PrecSep_0	
400-192471-8	BA14876 MW-17	Total/NA	Water	PrecSep_0	
400-192471-9	BA15101 MW-54H	Total/NA	Water	PrecSep_0	
400-192471-10	BA15102 MW-57H	Total/NA	Water	PrecSep_0	
400-192471-11	BA15103 MW-57H DUP	Total/NA	Water	PrecSep_0	
400-192471-12	BA15104 MW-44H	Total/NA	Water	PrecSep_0	
400-192471-13	BA15105 MW-32	Total/NA	Water	PrecSep_0	
400-192471-14	BA15106 MW-33	Total/NA	Water	PrecSep_0	
400-192471-15	BA15107 MW-5	Total/NA	Water	PrecSep_0	
400-192471-16	BA15108 MW-34HA	Total/NA	Water	PrecSep_0	
MB 160-480841/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-480841/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-192471-1 MS	BA14869 MW-31	Total/NA	Water	PrecSep_0	
400-192471-1 MSD	BA14869 MW-31	Total/NA	Water	PrecSep_0	

Prep Batch: 480955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-18	BA15110 MW-40H	Total/NA	Water	PrecSep-21	
400-192471-19	BA15111 MW-40H DUP	Total/NA	Water	PrecSep-21	
400-192471-20	BA15112 MW-15	Total/NA	Water	PrecSep-21	
400-192471-21	BA15113 MW-18	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 480955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-22	BA15114 MW-24	Total/NA	Water	PrecSep-21	
400-192471-23	BA15115 MW-23	Total/NA	Water	PrecSep-21	
400-192471-24	BA15116 FB-3	Total/NA	Water	PrecSep-21	
400-192471-25	BA15467 MW-45H	Total/NA	Water	PrecSep-21	
400-192471-26	BA15468 MW-48H	Total/NA	Water	PrecSep-21	
400-192471-27	BA15469 FB-4	Total/NA	Water	PrecSep-21	
400-192471-28	BA15470 MW-26	Total/NA	Water	PrecSep-21	
400-192471-29	BA15471 MW-26 DUP	Total/NA	Water	PrecSep-21	
400-192471-30	BA15472 MW-29	Total/NA	Water	PrecSep-21	
400-192471-31	BA15473 MW-30	Total/NA	Water	PrecSep-21	
400-192471-32	BA15474 MW-27	Total/NA	Water	PrecSep-21	
400-192471-33	BA15475 MW-28	Total/NA	Water	PrecSep-21	
400-192471-34	BA15476 PZ-4	Total/NA	Water	PrecSep-21	
400-192471-35	BA15477 MW-1	Total/NA	Water	PrecSep-21	
400-192471-36	BA15478 MW-1 DUP	Total/NA	Water	PrecSep-21	
MB 160-480955/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-480955/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-192471-26 MS	BA15468 MW-48H	Total/NA	Water	PrecSep-21	
400-192471-26 MSD	BA15468 MW-48H	Total/NA	Water	PrecSep-21	

Prep Batch: 480966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-18	BA15110 MW-40H	Total/NA	Water	PrecSep_0	
400-192471-19	BA15111 MW-40H DUP	Total/NA	Water	PrecSep_0	
400-192471-20	BA15112 MW-15	Total/NA	Water	PrecSep_0	
400-192471-21	BA15113 MW-18	Total/NA	Water	PrecSep_0	
400-192471-22	BA15114 MW-24	Total/NA	Water	PrecSep_0	
400-192471-23	BA15115 MW-23	Total/NA	Water	PrecSep_0	
400-192471-24	BA15116 FB-3	Total/NA	Water	PrecSep_0	
400-192471-25	BA15467 MW-45H	Total/NA	Water	PrecSep_0	
400-192471-26	BA15468 MW-48H	Total/NA	Water	PrecSep_0	
400-192471-27	BA15469 FB-4	Total/NA	Water	PrecSep_0	
400-192471-28	BA15470 MW-26	Total/NA	Water	PrecSep_0	
400-192471-29	BA15471 MW-26 DUP	Total/NA	Water	PrecSep_0	
400-192471-30	BA15472 MW-29	Total/NA	Water	PrecSep_0	
400-192471-31	BA15473 MW-30	Total/NA	Water	PrecSep_0	
400-192471-32	BA15474 MW-27	Total/NA	Water	PrecSep_0	
400-192471-33	BA15475 MW-28	Total/NA	Water	PrecSep_0	
400-192471-34	BA15476 PZ-4	Total/NA	Water	PrecSep_0	
400-192471-35	BA15477 MW-1	Total/NA	Water	PrecSep_0	
400-192471-36	BA15478 MW-1 DUP	Total/NA	Water	PrecSep_0	
MB 160-480966/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-480966/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-192471-26 MS	BA15468 MW-48H	Total/NA	Water	PrecSep_0	
400-192471-26 MSD	BA15468 MW-48H	Total/NA	Water	PrecSep_0	

Prep Batch: 480970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-37	BA15479 MW-2	Total/NA	Water	PrecSep-21	
400-192471-38	BA15480 MW-3	Total/NA	Water	PrecSep-21	
400-192471-39	BA15481 MW-12	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 480970 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-40	BA15482 MW-12 DUP	Total/NA	Water	PrecSep-21	
400-192471-41	BA15483 MW-21	Total/NA	Water	PrecSep-21	
400-192471-42	BA15484 MW-11	Total/NA	Water	PrecSep-21	
400-192471-43	BA15485 MW-10	Total/NA	Water	PrecSep-21	
400-192471-44	BA15486 MW-13	Total/NA	Water	PrecSep-21	
400-192471-45	BA15487 FB-1	Total/NA	Water	PrecSep-21	
400-192471-46	BA15488 MW-35H	Total/NA	Water	PrecSep-21	
400-192471-47	BA15700 MW-41H	Total/NA	Water	PrecSep-21	
400-192471-48	BA15701 MW-9	Total/NA	Water	PrecSep-21	
400-192471-49	BA15702 MW-6	Total/NA	Water	PrecSep-21	
400-192471-50	BA15703 MW-8	Total/NA	Water	PrecSep-21	
400-192471-51	BA15704 MW-7	Total/NA	Water	PrecSep-21	
400-192471-52	BA15705 MW-43H	Total/NA	Water	PrecSep-21	
400-192471-53	BA15706 FB-5	Total/NA	Water	PrecSep-21	
400-192471-54	BA15707 MW-37H	Total/NA	Water	PrecSep-21	
400-192471-55	BA15708 MW-38H	Total/NA	Water	PrecSep-21	
MB 160-480970/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-480970/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-192471-44 MS	BA15486 MW-13	Total/NA	Water	PrecSep-21	
400-192471-44 MSD	BA15486 MW-13	Total/NA	Water	PrecSep-21	

Prep Batch: 480971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-37	BA15479 MW-2	Total/NA	Water	PrecSep_0	
400-192471-38	BA15480 MW-3	Total/NA	Water	PrecSep_0	
400-192471-39	BA15481 MW-12	Total/NA	Water	PrecSep_0	
400-192471-40	BA15482 MW-12 DUP	Total/NA	Water	PrecSep_0	
400-192471-41	BA15483 MW-21	Total/NA	Water	PrecSep_0	
400-192471-42	BA15484 MW-11	Total/NA	Water	PrecSep_0	
400-192471-43	BA15485 MW-10	Total/NA	Water	PrecSep_0	
400-192471-44	BA15486 MW-13	Total/NA	Water	PrecSep_0	
400-192471-45	BA15487 FB-1	Total/NA	Water	PrecSep_0	
400-192471-46	BA15488 MW-35H	Total/NA	Water	PrecSep_0	
400-192471-47	BA15700 MW-41H	Total/NA	Water	PrecSep_0	
400-192471-48	BA15701 MW-9	Total/NA	Water	PrecSep_0	
400-192471-49	BA15702 MW-6	Total/NA	Water	PrecSep_0	
400-192471-50	BA15703 MW-8	Total/NA	Water	PrecSep_0	
400-192471-51	BA15704 MW-7	Total/NA	Water	PrecSep_0	
400-192471-52	BA15705 MW-43H	Total/NA	Water	PrecSep_0	
400-192471-53	BA15706 FB-5	Total/NA	Water	PrecSep_0	
400-192471-54	BA15707 MW-37H	Total/NA	Water	PrecSep_0	
400-192471-55	BA15708 MW-38H	Total/NA	Water	PrecSep_0	
MB 160-480971/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-480971/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-192471-44 MS	BA15486 MW-13	Total/NA	Water	PrecSep_0	
400-192471-44 MSD	BA15486 MW-13	Total/NA	Water	PrecSep_0	

Prep Batch: 481082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-56	BA15709 MW-49H	Total/NA	Water	PrecSep-21	
400-192471-57	BA15710 MW-42H	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 481082 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-58	BA15711 EB-1	Total/NA	Water	PrecSep-21	
MB 160-481082/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-481082/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-481082/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 481085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-56	BA15709 MW-49H	Total/NA	Water	PrecSep_0	
400-192471-57	BA15710 MW-42H	Total/NA	Water	PrecSep_0	
400-192471-58	BA15711 EB-1	Total/NA	Water	PrecSep_0	
MB 160-481085/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-481085/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-481085/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 485186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192471-17	BA15109 FB-2	Total/NA	Water	PrecSep_0	
MB 160-485186/6-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-485186/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-193048-A-21-H MS	Matrix Spike	Total/NA	Water	PrecSep_0	
400-193048-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-480833/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482632 — **Prep Batch: 480833**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.06312	U	0.0936	0.0938	1.00	0.161	pCi/L	08/26/20 12:36	09/17/20 12:11	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.3*		*40 - 110*	*08/26/20 12:36*	*09/17/20 12:11*	*1*

Lab Sample ID: LCS 160-480833/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482632 — **Prep Batch: 480833**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	13.62		1.55	1.00	0.179	pCi/L	90	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*80.7*		*40 - 110*

Lab Sample ID: 400-192471-1 MS — **Client Sample ID: BA14869 MW-31**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482632 — **Prep Batch: 480833**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.146	U	15.1	12.90		1.47	1.00	0.203	pCi/L	84	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*84.7*		*40 - 110*

Lab Sample ID: 400-192471-1 MSD — **Client Sample ID: BA14869 MW-31**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482632 — **Prep Batch: 480833**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.146	U	15.1	12.76		1.45	1.00	0.243	pCi/L	83	75 - 138	0.05	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*87.8*		*40 - 110*

Lab Sample ID: MB 160-480955/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482960 — **Prep Batch: 480955**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1910	U	0.347	0.348	1.00	0.611	pCi/L	08/27/20 17:58	09/18/20 23:03	1

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

Lab Sample ID: MB 160-480955/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482960 — **Prep Batch: 480955**

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	61.5		40 - 110	08/27/20 17:58	09/18/20 23:03	1

Lab Sample ID: LCS 160-480955/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482960 — **Prep Batch: 480955**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	13.27		1.77	1.00	0.348	pCi/L	88	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	80.1		40 - 110

Lab Sample ID: 400-192471-26 MS — **Client Sample ID: BA15468 MW-48H**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482960 — **Prep Batch: 480955**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.189	U	15.1	13.62		1.79	1.00	0.376	pCi/L	89	75 - 138		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	82.9		40 - 110

Lab Sample ID: 400-192471-26 MSD — **Client Sample ID: BA15468 MW-48H**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482960 — **Prep Batch: 480955**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.189	U	15.1	14.76		1.95	1.00	0.408	pCi/L	96	75 - 138	0.30	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	74.0		40 - 110

Lab Sample ID: MB 160-480970/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 483033 — **Prep Batch: 480970**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.09369	U	0.0983	0.0987	1.00	0.153	pCi/L	08/27/20 19:31	09/21/20 15:07	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110	08/27/20 19:31	09/21/20 15:07	1

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

Lab Sample ID: LCS 160-480970/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 483033 — **Prep Batch: 480970**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	14.06		1.54	1.00	0.174	pCi/L	93	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*85.0*		*40 - 110*

Lab Sample ID: 400-192471-44 MS — **Client Sample ID: BA15486 MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 483033 — **Prep Batch: 480970**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.301		15.1	13.20		1.46	1.00	0.196	pCi/L	85	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*85.9*		*40 - 110*

Lab Sample ID: 400-192471-44 MSD — **Client Sample ID: BA15486 MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 483033 — **Prep Batch: 480970**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.301		15.1	14.43		1.58	1.00	0.193	pCi/L	93	75 - 138	0.40	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*85.0*		*40 - 110*

Lab Sample ID: MB 160-481082/24-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 483033 — **Prep Batch: 481082**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04354	U	0.0772	0.0773	1.00	0.137	pCi/L	08/28/20 16:42	09/21/20 12:46	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.6*		*40 - 110*	*08/28/20 16:42*	*09/21/20 12:46*	*1*

Lab Sample ID: LCS 160-481082/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 483033 — **Prep Batch: 481082**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.3	9.948		1.12	1.00	0.128	pCi/L	88	75 - 125		

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

Lab Sample ID: LCS 160-481082/1-A
Matrix: Water
Analysis Batch: 483033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481082

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	84.1		40 - 110

Lab Sample ID: LCSD 160-481082/2-A
Matrix: Water
Analysis Batch: 483033

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481082

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226			11.3	10.11		1.14	1.00	0.151	pCi/L	89	75 - 125	0.07	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	82.9		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-480841/23-A
Matrix: Water
Analysis Batch: 482446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 480841

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4285	U	0.345	0.347	1.00	0.548	pCi/L	08/26/20 14:13	09/14/20 12:12	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		40 - 110	08/26/20 14:13	09/14/20 12:12	1
Y Carrier	86.0		40 - 110	08/26/20 14:13	09/14/20 12:12	1

Lab Sample ID: LCS 160-480841/1-A
Matrix: Water
Analysis Batch: 482447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 480841

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			10.4	12.26		1.50	1.00	0.619	pCi/L	118	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	80.7		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: 400-192471-1 MS
Matrix: Water
Analysis Batch: 482447

Client Sample ID: BA14869 MW-31
Prep Type: Total/NA
Prep Batch: 480841

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.621		10.4	12.11		1.48	1.00	0.555	pCi/L	110	45 - 150		

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

Lab Sample ID: 400-192471-1 MS
Matrix: Water
Analysis Batch: 482447

Client Sample ID: BA14869 MW-31
Prep Type: Total/NA
Prep Batch: 480841

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	84.7		40 - 110
Y Carrier	77.8		40 - 110

Lab Sample ID: 400-192471-1 MSD
Matrix: Water
Analysis Batch: 482447

Client Sample ID: BA14869 MW-31
Prep Type: Total/NA
Prep Batch: 480841

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.621		10.4	12.17		1.47	1.00	0.581	pCi/L	111	45 - 150	0.02	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	87.8		40 - 110
Y Carrier	80.0		40 - 110

Lab Sample ID: MB 160-480966/23-A
Matrix: Water
Analysis Batch: 482973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 480966

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5283	U	0.505	0.507	1.00	0.813	pCi/L	08/27/20 18:22	09/18/20 13:04	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	61.5		40 - 110	08/27/20 18:22	09/18/20 13:04	1
Y Carrier	84.9		40 - 110	08/27/20 18:22	09/18/20 13:04	1

Lab Sample ID: LCS 160-480966/1-A
Matrix: Water
Analysis Batch: 482957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 480966

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			10.4	12.57		1.56	1.00	0.685	pCi/L	121	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	80.1		40 - 110
Y Carrier	77.8		40 - 110

Lab Sample ID: 400-192471-26 MS
Matrix: Water
Analysis Batch: 482974

Client Sample ID: BA15468 MW-48H
Prep Type: Total/NA
Prep Batch: 480966

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.922		10.4	10.08		1.35	1.00	0.755	pCi/L	88	45 - 150		

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

Lab Sample ID: 400-192471-26 MS — **Client Sample ID: BA15468 MW-48H**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482974 — **Prep Batch: 480966**

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	82.9		40 - 110
Y Carrier	78.1		40 - 110

Lab Sample ID: 400-192471-26 MSD — **Client Sample ID: BA15468 MW-48H**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482974 — **Prep Batch: 480966**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.922		10.4	12.35		1.61	1.00	0.884	pCi/L	110	45 - 150	0.77	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	74.0		40 - 110
Y Carrier	79.3		40 - 110

Lab Sample ID: MB 160-480971/23-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482646 — **Prep Batch: 480971**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2693	U	0.356	0.357	1.00	0.593	pCi/L	08/27/20 20:37	09/17/20 11:53	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110	08/27/20 20:37	09/17/20 11:53	1
Y Carrier	81.5		40 - 110	08/27/20 20:37	09/17/20 11:53	1

Lab Sample ID: LCS 160-480971/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482644 — **Prep Batch: 480971**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			10.4	9.756		1.27	1.00	0.677	pCi/L	94	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	85.0		40 - 110
Y Carrier	79.6		40 - 110

Lab Sample ID: 400-192471-44 MS — **Client Sample ID: BA15486 MW-13**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482644 — **Prep Batch: 480971**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.267	U	10.4	12.95		1.58	1.00	0.614	pCi/L	122	45 - 150		

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

Lab Sample ID: 400-192471-44 MS
Matrix: Water
Analysis Batch: 482644

Client Sample ID: BA15486 MW-13
Prep Type: Total/NA
Prep Batch: 480971

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	85.9		40 - 110
Y Carrier	73.3		40 - 110

Lab Sample ID: 400-192471-44 MSD
Matrix: Water
Analysis Batch: 482644

Client Sample ID: BA15486 MW-13
Prep Type: Total/NA
Prep Batch: 480971

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.267	U	10.4	12.27		1.54	1.00	0.707	pCi/L	115	45 - 150	0.22	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	85.0		40 - 110
Y Carrier	74.0		40 - 110

Lab Sample ID: MB 160-481085/24-A
Matrix: Water
Analysis Batch: 482957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481085

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1718	U	0.210	0.210	1.00	0.347	pCi/L	08/28/20 17:17	09/18/20 12:00	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110	08/28/20 17:17	09/18/20 12:00	1
Y Carrier	88.6		40 - 110	08/28/20 17:17	09/18/20 12:00	1

Lab Sample ID: LCS 160-481085/1-A
Matrix: Water
Analysis Batch: 482946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481085

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			7.80	8.379		1.05	1.00	0.503	pCi/L	107	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	84.1		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: LCSD 160-481085/2-A
Matrix: Water
Analysis Batch: 482946

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481085

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228			7.80	7.434		0.978	1.00	0.518	pCi/L	95	75 - 125	0.47	1

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

Lab Sample ID: LCSD 160-481085/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 482946 — **Prep Batch: 481085**

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	82.9		40 - 110
Y Carrier	79.3		40 - 110

Lab Sample ID: MB 160-485186/6-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 485712 — **Prep Batch: 485186**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.2223	U G	0.823	0.823	1.00	1.53	pCi/L	10/09/20 08:55	10/14/20 12:09	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110	10/09/20 08:55	10/14/20 12:09	1
Y Carrier	78.1		40 - 110	10/09/20 08:55	10/14/20 12:09	1

Lab Sample ID: LCS 160-485186/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 485712 — **Prep Batch: 485186**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			25.8	26.30		3.33	1.00	1.58	pCi/L	102	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	87.0		40 - 110
Y Carrier	79.6		40 - 110

Lab Sample ID: 400-193048-A-21-H MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 485712 — **Prep Batch: 485186**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	1.35	G	23.7	23.77		3.04	1.00	1.42	pCi/L	94	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	81.4		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: 400-193048-A-21-I MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 485712 — **Prep Batch: 485186**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	1.35	G	23.8	26.96		3.43	1.00	1.55	pCi/L	108	45 - 150	0.49	1

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

Lab Sample ID: 400-193048-A-21-I MSD
Matrix: Water
Analysis Batch: 485712

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 485186

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	73.4		40 - 110
Y Carrier	81.1		40 - 110

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3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 9
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1290	SSOW#:			

Analysis Requested

400-192471 COC

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA14869	8/11/20	10:58	G	Water		X				X	3	MW-31
BA14870	8/11/20	12:40	G	Water						X	1	MW-14
BA14871	8/11/20	14:31	G	Water						X	1	MW-25
BA14872	8/11/20	15:44	G	Water						X	1	MW-53H

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) 44048	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/20/2020 15:00	Water APC	Received by: Meyan Hinton	Date/Time: 8-24-20 1400	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

27.3°C, 26.9°C, 27.1°C, 26.4°C IR9

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Pensacola, FL 32514
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 2 of 9
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1290	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA14873	8/11/20	10:45	G	Water						X	1	MW-36H
BA14874	8/11/20	12:40	G	Water						X	1	MW-39H
BA14875	8/11/20	13:55	G	Water						X	1	MW-16
BA14876	8/11/20	15:35	G	Water						X	1	MW-17

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 44048 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/20/2020 15:00	Water APC	Received by: Moyim Hmolsier	Date/Time: 8-21-20 1405	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

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Pensacola, FL 32514
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 3 of 9
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1290	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA15101	8/12/20	08:44	G	Water						X	1	MW-54H
BA15102	8/12/20	09:41	G	Water						X	1	MW-57H
BA15103	8/12/20	09:41	G	Water						X	1	MW-57H DUP (Sample Duplicate)
BA15104	8/12/20	10:45	G	Water						X	1	MW-44H
BA15105	8/12/20	11:52	G	Water						X	1	MW-32
BA15106	8/12/20	13:04	G	Water						X	1	MW-33
BA15107	8/12/20	14:12	G	Water						X	1	MW-5
BA15108	8/12/20	15:24	G	Water						X	1	MW-34HA
BA15109	8/12/20	15:50	G	Water						X	1	FB-2 (Field Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) 44048	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/20/2020 15:00	Water APC	Received by: Megan Thrasher	Date/Time: 8-24-20 1405	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 4 of 9
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1290	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA15110	8/12/20	09:45	G	Water						X	1	MW-40H
BA15111	8/12/20	09:45	G	Water						X	1	MW-40H DUP (Sample Duplicate)
BA15112	8/12/20	10:55	G	Water						X	1	MW-15
BA15113	8/12/20	12:30	G	Water						X	1	MW-18
BA15114	8/12/20	14:15	G	Water						X	1	MW-24
BA15115	8/12/20	15:35	G	Water						X	1	MW-23
BA15116	8/12/20	16:00	G	Water						X	1	FB-3 (Field Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) 44048	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/20/2020 15:00	Water APC	Received by: Megan Hawkins	Date/Time: 8-24-20 1405	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

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3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 5 of 9
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1290	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA15467	8/17/20	13:35	G	Water						X	1	MW-45H
BA15468	8/17/20	15:35	G	Water		X				X	3	MW-48H
BA15469	8/17/20	16:05	G	Water						X	1	FB-4 (Field Blank)
BA15470	8/18/20	08:40	G	Water						X	1	MW-26
BA15471	8/18/20	08:40	G	Water						X	1	MW-26 DUP (Sample Duplicate)
BA15472	8/18/20	10:00	G	Water						X	1	MW-29
BA15473	8/18/20	10:55	G	Water						X	1	MW-30
BA15474	8/18/20	11:55	G	Water						X	1	MW-27
BA15475	8/18/20	12:45	G	Water						X	1	MW-28

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) 44048	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/20/2020 15:00	Company: Water APC	Received by: Megan Hendrickson	Date/Time: 8.24.20 1405	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

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Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 6 of 9
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1290	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA15476	8/17/20	12:21	G	Water						X	1	PZ-4
BA15477	8/17/20	13:34	G	Water						X	1	MW-1
BA15478	8/17/20	13:34	G	Water						X	1	MW-1 DUP (Sample Duplicate)
BA15479	8/17/20	14:38	G	Water						X	1	MW-2
BA15480	8/17/20	15:36	G	Water						X	1	MW-3
BA15481	8/18/20	08:40	G	Water						X	1	MW-12
BA15482	8/18/20	08:40	G	Water						X	1	MW-12 DUP (Sample Duplicate)
BA15483	8/18/20	09:40	G	Water						X	1	MW-21
BA15484	8/18/20	10:42	G	Water						X	1	MW-11
BA15485	8/18/20	11:40	G	Water						X	1	MW-10

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify)	4404B Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/20/2020 15:00	Water APC	Received by: Megan Hurlbert	Date/Time: 8-24-20 1405	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Anthony Goggins	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 7 of 9
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1290	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA15486	8/18/20	09:02	G	Water		X				X	3	MW-13
BA15487	8/18/20	09:25	G	Water						X	1	FB-1 (Field Blank)
BA15488	8/18/20	10:50	G	Water						X	1	MW-35H

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify)	4404B Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/20/2020 15:00	Water APC	Received by: Megan Hinkelsa	Date/Time: 8-24-20 1405	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 8 of 9
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1290	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 CL_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA15700	8/18/20	13:31	G	Water						X	1	MW-41H
BA15701	8/18/20	15:12	G	Water						X	1	MW-9
BA15702	8/19/20	09:00	G	Water						X	1	MW-6
BA15703	8/19/20	10:52	G	Water						X	1	MW-8
BA15704	8/19/20	11:46	G	Water						X	1	MW-7
BA15705	8/19/20	13:16	G	Water						X	1	MW-43H
BA15706	8/19/20	13:35	G	Water						X	1	FB-5 (Field Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 44048 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/20/2020 15:00	Water APC	Received by: Megan Funchess	Date/Time: 8-24-20 1405	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkif	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 9 of 9
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkif@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1290	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA15707	8/19/20	08:53	G	Water						X	1	MW-37H
BA15708	8/19/20	11:30	G	Water						X	1	MW-38H
BA15709	8/19/20	12:55	G	Water						X	1	MW-49H
BA15710	8/19/20	13:55	G	Water						X	1	MW-42H
BA15711	8/19/20	14:15	G	Water						X	1	EB-1 (Equipment Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify)	44048 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/20/2020 15:00	Company: Water APC	Received by: Megan Hardison	Date/Time: 8-24-20 1405	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-192471-1
SDG Number: Greene County Ash Pond 1290

Login Number: 192471
List Number: 1
Creator: Hinrichsen, Megan E

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	27.3°C, 26.9°C. 27.1°C, 26.4°C IR-9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-192471-1
SDG Number: Greene County Ash Pond 1290

Login Number: 192471
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/25/20 05:34 PM

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

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192471-1
SDG: Greene County Ash Pond 1290

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-5	8/12/2020 13:49	Conductivity	655.7	uS/cm
GC-AP-MW-5	8/12/2020 13:49	DO	1.11	mg/L
GC-AP-MW-5	8/12/2020 13:49	Depth to Water Detail	14.86	ft
GC-AP-MW-5	8/12/2020 13:49	Oxidation Reduction Potention	-44.67	mv
GC-AP-MW-5	8/12/2020 13:49	pH	6.15	pH
GC-AP-MW-5	8/12/2020 13:49	Temperature	21.55	C
GC-AP-MW-5	8/12/2020 13:49	Turbidity	1.66	NTU
GC-AP-MW-5	8/12/2020 13:54	Conductivity	654.69	uS/cm
GC-AP-MW-5	8/12/2020 13:54	DO	0.88	mg/L
GC-AP-MW-5	8/12/2020 13:54	Depth to Water Detail	14.86	ft
GC-AP-MW-5	8/12/2020 13:54	Oxidation Reduction Potention	-51.35	mv
GC-AP-MW-5	8/12/2020 13:54	pH	6.19	pH
GC-AP-MW-5	8/12/2020 13:54	Temperature	21.62	C
GC-AP-MW-5	8/12/2020 13:54	Turbidity	1.53	NTU
GC-AP-MW-5	8/12/2020 13:59	Conductivity	652.64	uS/cm
GC-AP-MW-5	8/12/2020 13:59	DO	0.78	mg/L
GC-AP-MW-5	8/12/2020 13:59	Depth to Water Detail	14.86	ft
GC-AP-MW-5	8/12/2020 13:59	Oxidation Reduction Potention	-55.89	mv
GC-AP-MW-5	8/12/2020 13:59	pH	6.23	pH
GC-AP-MW-5	8/12/2020 13:59	Temperature	21.64	C
GC-AP-MW-5	8/12/2020 13:59	Turbidity	1.63	NTU
GC-AP-MW-5	8/12/2020 14:04	Conductivity	651.58	uS/cm
GC-AP-MW-5	8/12/2020 14:04	DO	0.73	mg/L
GC-AP-MW-5	8/12/2020 14:04	Depth to Water Detail	14.86	ft
GC-AP-MW-5	8/12/2020 14:04	Oxidation Reduction Potention	-60.34	mv
GC-AP-MW-5	8/12/2020 14:04	pH	6.29	pH
GC-AP-MW-5	8/12/2020 14:04	Temperature	21.59	C
GC-AP-MW-5	8/12/2020 14:04	Turbidity	1.69	NTU
GC-AP-MW-5	8/12/2020 14:09	Conductivity	651.1	uS/cm
GC-AP-MW-5	8/12/2020 14:09	DO	0.7	mg/L
GC-AP-MW-5	8/12/2020 14:09	Depth to Water Detail	14.86	ft
GC-AP-MW-5	8/12/2020 14:09	Oxidation Reduction Potention	-64.62	mv
GC-AP-MW-5	8/12/2020 14:09	pH	6.36	pH
GC-AP-MW-5	8/12/2020 14:09	Temperature	21.71	C
GC-AP-MW-5	8/12/2020 14:09	Turbidity	2.07	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-14	8/11/2020 12:22	Conductivity	962.78	uS/cm
GC-AP-MW-14	8/11/2020 12:22	DO	0.86	mg/L
GC-AP-MW-14	8/11/2020 12:22	Depth to Water Detail	10.25	ft
GC-AP-MW-14	8/11/2020 12:22	Oxidation Reduction Potention	-52.94	mv
GC-AP-MW-14	8/11/2020 12:22	pH	5.97	pH
GC-AP-MW-14	8/11/2020 12:22	Temperature	20.9	C
GC-AP-MW-14	8/11/2020 12:22	Turbidity	3.71	NTU
GC-AP-MW-14	8/11/2020 12:27	Conductivity	965.77	uS/cm
GC-AP-MW-14	8/11/2020 12:27	DO	0.67	mg/L
GC-AP-MW-14	8/11/2020 12:27	Depth to Water Detail	10.25	ft
GC-AP-MW-14	8/11/2020 12:27	Oxidation Reduction Potention	-52.37	mv
GC-AP-MW-14	8/11/2020 12:27	pH	5.99	pH
GC-AP-MW-14	8/11/2020 12:27	Temperature	20.81	C
GC-AP-MW-14	8/11/2020 12:27	Turbidity	2.25	NTU
GC-AP-MW-14	8/11/2020 12:32	Conductivity	977.39	uS/cm
GC-AP-MW-14	8/11/2020 12:32	DO	0.6	mg/L
GC-AP-MW-14	8/11/2020 12:32	Depth to Water Detail	10.25	ft
GC-AP-MW-14	8/11/2020 12:32	Oxidation Reduction Potention	-51.34	mv
GC-AP-MW-14	8/11/2020 12:32	pH	6.01	pH
GC-AP-MW-14	8/11/2020 12:32	Temperature	20.79	C
GC-AP-MW-14	8/11/2020 12:32	Turbidity	2.29	NTU
GC-AP-MW-14	8/11/2020 12:37	Conductivity	984.33	uS/cm
GC-AP-MW-14	8/11/2020 12:37	DO	0.56	mg/L
GC-AP-MW-14	8/11/2020 12:37	Depth to Water Detail	10.25	ft
GC-AP-MW-14	8/11/2020 12:37	Oxidation Reduction Potention	-50.19	mv
GC-AP-MW-14	8/11/2020 12:37	pH	6.02	pH
GC-AP-MW-14	8/11/2020 12:37	Temperature	20.92	C
GC-AP-MW-14	8/11/2020 12:37	Turbidity	2.16	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-25	8/11/2020 14:13	Conductivity	279.54	uS/cm
GC-AP-MW-25	8/11/2020 14:13	DO	0.76	mg/L
GC-AP-MW-25	8/11/2020 14:13	Depth to Water Detail	10.46	ft
GC-AP-MW-25	8/11/2020 14:13	Oxidation Reduction Potention	233.29	mv
GC-AP-MW-25	8/11/2020 14:13	pH	4.64	pH
GC-AP-MW-25	8/11/2020 14:13	Temperature	21.46	C
GC-AP-MW-25	8/11/2020 14:13	Turbidity	3.89	NTU
GC-AP-MW-25	8/11/2020 14:18	Conductivity	285.14	uS/cm
GC-AP-MW-25	8/11/2020 14:18	DO	0.65	mg/L
GC-AP-MW-25	8/11/2020 14:18	Depth to Water Detail	10.52	ft
GC-AP-MW-25	8/11/2020 14:18	Oxidation Reduction Potention	229.46	mv
GC-AP-MW-25	8/11/2020 14:18	pH	4.71	pH
GC-AP-MW-25	8/11/2020 14:18	Temperature	21.45	C
GC-AP-MW-25	8/11/2020 14:18	Turbidity	2.41	NTU
GC-AP-MW-25	8/11/2020 14:23	Conductivity	286.16	uS/cm
GC-AP-MW-25	8/11/2020 14:23	DO	0.6	mg/L
GC-AP-MW-25	8/11/2020 14:23	Depth to Water Detail	10.52	ft
GC-AP-MW-25	8/11/2020 14:23	Oxidation Reduction Potention	225.69	mv
GC-AP-MW-25	8/11/2020 14:23	pH	4.76	pH
GC-AP-MW-25	8/11/2020 14:23	Temperature	21.44	C
GC-AP-MW-25	8/11/2020 14:23	Turbidity	2.5	NTU
GC-AP-MW-25	8/11/2020 14:28	Conductivity	286.17	uS/cm
GC-AP-MW-25	8/11/2020 14:28	DO	0.58	mg/L
GC-AP-MW-25	8/11/2020 14:28	Depth to Water Detail	10.52	ft
GC-AP-MW-25	8/11/2020 14:28	Oxidation Reduction Potention	222.22	mv
GC-AP-MW-25	8/11/2020 14:28	pH	4.81	pH
GC-AP-MW-25	8/11/2020 14:28	Temperature	21.37	C
GC-AP-MW-25	8/11/2020 14:28	Turbidity	1.84	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-31	8/11/2020 10:20	Conductivity	51.04	uS/cm
GC-AP-MW-31	8/11/2020 10:20	DO	1.59	mg/L
GC-AP-MW-31	8/11/2020 10:20	Depth to Water Detail	9.75	ft
GC-AP-MW-31	8/11/2020 10:20	Oxidation Reduction Potention	200.52	mv
GC-AP-MW-31	8/11/2020 10:20	pH	4.73	pH
GC-AP-MW-31	8/11/2020 10:20	Temperature	18.93	C
GC-AP-MW-31	8/11/2020 10:20	Turbidity	9.59	NTU
GC-AP-MW-31	8/11/2020 10:25	Conductivity	62.34	uS/cm
GC-AP-MW-31	8/11/2020 10:25	DO	1.42	mg/L
GC-AP-MW-31	8/11/2020 10:25	Depth to Water Detail	9.75	ft
GC-AP-MW-31	8/11/2020 10:25	Oxidation Reduction Potention	202.79	mv
GC-AP-MW-31	8/11/2020 10:25	pH	5	pH
GC-AP-MW-31	8/11/2020 10:25	Temperature	18.87	C
GC-AP-MW-31	8/11/2020 10:25	Turbidity	3.02	NTU
GC-AP-MW-31	8/11/2020 10:30	Conductivity	67.58	uS/cm
GC-AP-MW-31	8/11/2020 10:30	DO	1.36	mg/L
GC-AP-MW-31	8/11/2020 10:30	Depth to Water Detail	9.75	ft
GC-AP-MW-31	8/11/2020 10:30	Oxidation Reduction Potention	206.13	mv
GC-AP-MW-31	8/11/2020 10:30	pH	5.16	pH
GC-AP-MW-31	8/11/2020 10:30	Temperature	18.88	C
GC-AP-MW-31	8/11/2020 10:30	Turbidity	2.29	NTU
GC-AP-MW-31	8/11/2020 10:35	Conductivity	66.46	uS/cm
GC-AP-MW-31	8/11/2020 10:35	DO	1.34	mg/L
GC-AP-MW-31	8/11/2020 10:35	Depth to Water Detail	9.75	ft
GC-AP-MW-31	8/11/2020 10:35	Oxidation Reduction Potention	204.8	mv
GC-AP-MW-31	8/11/2020 10:35	pH	5.26	pH
GC-AP-MW-31	8/11/2020 10:35	Temperature	18.8	C
GC-AP-MW-31	8/11/2020 10:35	Turbidity	1.31	NTU
GC-AP-MW-31	8/11/2020 10:40	Conductivity	66.29	uS/cm
GC-AP-MW-31	8/11/2020 10:40	DO	1.31	mg/L
GC-AP-MW-31	8/11/2020 10:40	Depth to Water Detail	9.75	ft
GC-AP-MW-31	8/11/2020 10:40	Oxidation Reduction Potention	201.39	mv
GC-AP-MW-31	8/11/2020 10:40	pH	5.39	pH
GC-AP-MW-31	8/11/2020 10:40	Temperature	18.73	C
GC-AP-MW-31	8/11/2020 10:40	Turbidity	0.97	NTU
GC-AP-MW-31	8/11/2020 10:45	Conductivity	70.51	uS/cm
GC-AP-MW-31	8/11/2020 10:45	DO	1.3	mg/L
GC-AP-MW-31	8/11/2020 10:45	Depth to Water Detail	9.75	ft
GC-AP-MW-31	8/11/2020 10:45	Oxidation Reduction Potention	196.13	mv
GC-AP-MW-31	8/11/2020 10:45	pH	5.49	pH
GC-AP-MW-31	8/11/2020 10:45	Temperature	18.79	C
GC-AP-MW-31	8/11/2020 10:45	Turbidity	1.04	NTU
GC-AP-MW-31	8/11/2020 10:50	Conductivity	73.48	uS/cm
GC-AP-MW-31	8/11/2020 10:50	DO	1.27	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-31	8/11/2020 10:50	Depth to Water Detail	9.75	ft
GC-AP-MW-31	8/11/2020 10:50	Oxidation Reduction Potention	183.72	mv
GC-AP-MW-31	8/11/2020 10:50	pH	5.59	pH
GC-AP-MW-31	8/11/2020 10:50	Temperature	18.82	C
GC-AP-MW-31	8/11/2020 10:50	Turbidity	1.01	NTU
GC-AP-MW-31	8/11/2020 10:55	Conductivity	70.47	uS/cm
GC-AP-MW-31	8/11/2020 10:55	DO	1.27	mg/L
GC-AP-MW-31	8/11/2020 10:55	Depth to Water Detail	9.75	ft
GC-AP-MW-31	8/11/2020 10:55	Oxidation Reduction Potention	173.46	mv
GC-AP-MW-31	8/11/2020 10:55	pH	5.63	pH
GC-AP-MW-31	8/11/2020 10:55	Temperature	18.75	C
GC-AP-MW-31	8/11/2020 10:55	Turbidity	1.12	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-32	8/12/2020 11:28	Conductivity	63.9	uS/cm
GC-AP-MW-32	8/12/2020 11:28	DO	5.12	mg/L
GC-AP-MW-32	8/12/2020 11:28	Depth to Water Detail	16.68	ft
GC-AP-MW-32	8/12/2020 11:28	Oxidation Reduction Potention	161.44	mv
GC-AP-MW-32	8/12/2020 11:28	pH	5.43	pH
GC-AP-MW-32	8/12/2020 11:28	Temperature	19.91	C
GC-AP-MW-32	8/12/2020 11:28	Turbidity	3.56	NTU
GC-AP-MW-32	8/12/2020 11:33	Conductivity	64.1	uS/cm
GC-AP-MW-32	8/12/2020 11:33	DO	5	mg/L
GC-AP-MW-32	8/12/2020 11:33	Depth to Water Detail	16.68	ft
GC-AP-MW-32	8/12/2020 11:33	Oxidation Reduction Potention	161.84	mv
GC-AP-MW-32	8/12/2020 11:33	pH	5.61	pH
GC-AP-MW-32	8/12/2020 11:33	Temperature	19.95	C
GC-AP-MW-32	8/12/2020 11:33	Turbidity	3.1	NTU
GC-AP-MW-32	8/12/2020 11:38	Conductivity	64.01	uS/cm
GC-AP-MW-32	8/12/2020 11:38	DO	4.96	mg/L
GC-AP-MW-32	8/12/2020 11:38	Depth to Water Detail	16.68	ft
GC-AP-MW-32	8/12/2020 11:38	Oxidation Reduction Potention	161.35	mv
GC-AP-MW-32	8/12/2020 11:38	pH	5.76	pH
GC-AP-MW-32	8/12/2020 11:38	Temperature	19.91	C
GC-AP-MW-32	8/12/2020 11:38	Turbidity	2.94	NTU
GC-AP-MW-32	8/12/2020 11:43	Conductivity	63.61	uS/cm
GC-AP-MW-32	8/12/2020 11:43	DO	4.93	mg/L
GC-AP-MW-32	8/12/2020 11:43	Depth to Water Detail	16.68	ft
GC-AP-MW-32	8/12/2020 11:43	Oxidation Reduction Potention	164.59	mv
GC-AP-MW-32	8/12/2020 11:43	pH	5.83	pH
GC-AP-MW-32	8/12/2020 11:43	Temperature	19.91	C
GC-AP-MW-32	8/12/2020 11:43	Turbidity	2.74	NTU
GC-AP-MW-32	8/12/2020 11:48	Conductivity	63.32	uS/cm
GC-AP-MW-32	8/12/2020 11:48	DO	4.92	mg/L
GC-AP-MW-32	8/12/2020 11:48	Depth to Water Detail	16.68	ft
GC-AP-MW-32	8/12/2020 11:48	Oxidation Reduction Potention	169.75	mv
GC-AP-MW-32	8/12/2020 11:48	pH	5.84	pH
GC-AP-MW-32	8/12/2020 11:48	Temperature	19.85	C
GC-AP-MW-32	8/12/2020 11:48	Turbidity	2.7	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-33	8/12/2020 12:36	Conductivity	92.81	uS/cm
GC-AP-MW-33	8/12/2020 12:36	DO	4.53	mg/L
GC-AP-MW-33	8/12/2020 12:36	Depth to Water Detail	19.71	ft
GC-AP-MW-33	8/12/2020 12:36	Oxidation Reduction Potention	318.32	mv
GC-AP-MW-33	8/12/2020 12:36	pH	4.24	pH
GC-AP-MW-33	8/12/2020 12:36	Temperature	18.92	C
GC-AP-MW-33	8/12/2020 12:36	Turbidity	1.98	NTU
GC-AP-MW-33	8/12/2020 12:41	Conductivity	93.34	uS/cm
GC-AP-MW-33	8/12/2020 12:41	DO	4.5	mg/L
GC-AP-MW-33	8/12/2020 12:41	Depth to Water Detail	19.71	ft
GC-AP-MW-33	8/12/2020 12:41	Oxidation Reduction Potention	323.16	mv
GC-AP-MW-33	8/12/2020 12:41	pH	4.34	pH
GC-AP-MW-33	8/12/2020 12:41	Temperature	18.93	C
GC-AP-MW-33	8/12/2020 12:41	Turbidity	1.74	NTU
GC-AP-MW-33	8/12/2020 12:46	Conductivity	93.38	uS/cm
GC-AP-MW-33	8/12/2020 12:46	DO	4.56	mg/L
GC-AP-MW-33	8/12/2020 12:46	Depth to Water Detail	19.71	ft
GC-AP-MW-33	8/12/2020 12:46	Oxidation Reduction Potention	324.56	mv
GC-AP-MW-33	8/12/2020 12:46	pH	4.45	pH
GC-AP-MW-33	8/12/2020 12:46	Temperature	18.9	C
GC-AP-MW-33	8/12/2020 12:46	Turbidity	1.58	NTU
GC-AP-MW-33	8/12/2020 12:51	Conductivity	93.43	uS/cm
GC-AP-MW-33	8/12/2020 12:51	DO	4.59	mg/L
GC-AP-MW-33	8/12/2020 12:51	Depth to Water Detail	19.71	ft
GC-AP-MW-33	8/12/2020 12:51	Oxidation Reduction Potention	325.18	mv
GC-AP-MW-33	8/12/2020 12:51	pH	4.54	pH
GC-AP-MW-33	8/12/2020 12:51	Temperature	18.97	C
GC-AP-MW-33	8/12/2020 12:51	Turbidity	1.53	NTU
GC-AP-MW-33	8/12/2020 12:56	Conductivity	92.96	uS/cm
GC-AP-MW-33	8/12/2020 12:56	DO	4.62	mg/L
GC-AP-MW-33	8/12/2020 12:56	Depth to Water Detail	19.71	ft
GC-AP-MW-33	8/12/2020 12:56	Oxidation Reduction Potention	326.62	mv
GC-AP-MW-33	8/12/2020 12:56	pH	4.61	pH
GC-AP-MW-33	8/12/2020 12:56	Temperature	18.92	C
GC-AP-MW-33	8/12/2020 12:56	Turbidity	1.48	NTU
GC-AP-MW-33	8/12/2020 13:01	Conductivity	93	uS/cm
GC-AP-MW-33	8/12/2020 13:01	DO	4.66	mg/L
GC-AP-MW-33	8/12/2020 13:01	Depth to Water Detail	19.71	ft
GC-AP-MW-33	8/12/2020 13:01	Oxidation Reduction Potention	328.38	mv
GC-AP-MW-33	8/12/2020 13:01	pH	4.65	pH
GC-AP-MW-33	8/12/2020 13:01	Temperature	18.95	C
GC-AP-MW-33	8/12/2020 13:01	Turbidity	1.44	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-34HA	8/12/2020 15:05	Conductivity	83.77	uS/cm
GC-AP-MW-34HA	8/12/2020 15:05	DO	3.82	mg/L
GC-AP-MW-34HA	8/12/2020 15:05	Depth to Water Detail	21.22	ft
GC-AP-MW-34HA	8/12/2020 15:05	Oxidation Reduction Potention	223.58	mv
GC-AP-MW-34HA	8/12/2020 15:05	pH	4.68	pH
GC-AP-MW-34HA	8/12/2020 15:05	Temperature	22.42	C
GC-AP-MW-34HA	8/12/2020 15:05	Turbidity	2.71	NTU
GC-AP-MW-34HA	8/12/2020 15:10	Conductivity	84.61	uS/cm
GC-AP-MW-34HA	8/12/2020 15:10	DO	3.66	mg/L
GC-AP-MW-34HA	8/12/2020 15:10	Depth to Water Detail	21.22	ft
GC-AP-MW-34HA	8/12/2020 15:10	Oxidation Reduction Potention	233.89	mv
GC-AP-MW-34HA	8/12/2020 15:10	pH	4.74	pH
GC-AP-MW-34HA	8/12/2020 15:10	Temperature	22.49	C
GC-AP-MW-34HA	8/12/2020 15:10	Turbidity	2.68	NTU
GC-AP-MW-34HA	8/12/2020 15:15	Conductivity	84.81	uS/cm
GC-AP-MW-34HA	8/12/2020 15:15	DO	3.57	mg/L
GC-AP-MW-34HA	8/12/2020 15:15	Depth to Water Detail	21.22	ft
GC-AP-MW-34HA	8/12/2020 15:15	Oxidation Reduction Potention	241.94	mv
GC-AP-MW-34HA	8/12/2020 15:15	pH	4.77	pH
GC-AP-MW-34HA	8/12/2020 15:15	Temperature	22.53	C
GC-AP-MW-34HA	8/12/2020 15:15	Turbidity	1.92	NTU
GC-AP-MW-34HA	8/12/2020 15:20	Conductivity	84.72	uS/cm
GC-AP-MW-34HA	8/12/2020 15:20	DO	3.53	mg/L
GC-AP-MW-34HA	8/12/2020 15:20	Depth to Water Detail	21.22	ft
GC-AP-MW-34HA	8/12/2020 15:20	Oxidation Reduction Potention	248.88	mv
GC-AP-MW-34HA	8/12/2020 15:20	pH	4.78	pH
GC-AP-MW-34HA	8/12/2020 15:20	Temperature	22.53	C
GC-AP-MW-34HA	8/12/2020 15:20	Turbidity	1.85	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-44H	8/12/2020 10:26	Conductivity	875.16	uS/cm
GC-AP-MW-44H	8/12/2020 10:26	DO	0.59	mg/L
GC-AP-MW-44H	8/12/2020 10:26	Depth to Water Detail	9.33	ft
GC-AP-MW-44H	8/12/2020 10:26	Oxidation Reduction Potention	35.43	mv
GC-AP-MW-44H	8/12/2020 10:26	pH	6.33	pH
GC-AP-MW-44H	8/12/2020 10:26	Temperature	19.74	C
GC-AP-MW-44H	8/12/2020 10:26	Turbidity	5.7	NTU
GC-AP-MW-44H	8/12/2020 10:31	Conductivity	897.57	uS/cm
GC-AP-MW-44H	8/12/2020 10:31	DO	0.36	mg/L
GC-AP-MW-44H	8/12/2020 10:31	Depth to Water Detail	9.38	ft
GC-AP-MW-44H	8/12/2020 10:31	Oxidation Reduction Potention	40.11	mv
GC-AP-MW-44H	8/12/2020 10:31	pH	6.3	pH
GC-AP-MW-44H	8/12/2020 10:31	Temperature	19.76	C
GC-AP-MW-44H	8/12/2020 10:31	Turbidity	4.02	NTU
GC-AP-MW-44H	8/12/2020 10:36	Conductivity	909.58	uS/cm
GC-AP-MW-44H	8/12/2020 10:36	DO	0.3	mg/L
GC-AP-MW-44H	8/12/2020 10:36	Depth to Water Detail	9.39	ft
GC-AP-MW-44H	8/12/2020 10:36	Oxidation Reduction Potention	42.05	mv
GC-AP-MW-44H	8/12/2020 10:36	pH	6.29	pH
GC-AP-MW-44H	8/12/2020 10:36	Temperature	19.74	C
GC-AP-MW-44H	8/12/2020 10:36	Turbidity	3.37	NTU
GC-AP-MW-44H	8/12/2020 10:41	Conductivity	918.45	uS/cm
GC-AP-MW-44H	8/12/2020 10:41	DO	0.26	mg/L
GC-AP-MW-44H	8/12/2020 10:41	Depth to Water Detail	9.39	ft
GC-AP-MW-44H	8/12/2020 10:41	Oxidation Reduction Potention	42.05	mv
GC-AP-MW-44H	8/12/2020 10:41	pH	6.27	pH
GC-AP-MW-44H	8/12/2020 10:41	Temperature	19.67	C
GC-AP-MW-44H	8/12/2020 10:41	Turbidity	2.97	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-53H	8/11/2020 15:26	Conductivity	723.71	uS/cm
GC-AP-MW-53H	8/11/2020 15:26	DO	0.32	mg/L
GC-AP-MW-53H	8/11/2020 15:26	Depth to Water Detail	10.51	ft
GC-AP-MW-53H	8/11/2020 15:26	Oxidation Reduction Potention	-31.68	mv
GC-AP-MW-53H	8/11/2020 15:26	pH	5.76	pH
GC-AP-MW-53H	8/11/2020 15:26	Temperature	22.47	C
GC-AP-MW-53H	8/11/2020 15:26	Turbidity	22	NTU
GC-AP-MW-53H	8/11/2020 15:31	Conductivity	718.19	uS/cm
GC-AP-MW-53H	8/11/2020 15:31	DO	0.25	mg/L
GC-AP-MW-53H	8/11/2020 15:31	Depth to Water Detail	10.56	ft
GC-AP-MW-53H	8/11/2020 15:31	Oxidation Reduction Potention	-32.49	mv
GC-AP-MW-53H	8/11/2020 15:31	pH	5.77	pH
GC-AP-MW-53H	8/11/2020 15:31	Temperature	22.4	C
GC-AP-MW-53H	8/11/2020 15:31	Turbidity	9.33	NTU
GC-AP-MW-53H	8/11/2020 15:36	Conductivity	716.63	uS/cm
GC-AP-MW-53H	8/11/2020 15:36	DO	0.22	mg/L
GC-AP-MW-53H	8/11/2020 15:36	Depth to Water Detail	10.58	ft
GC-AP-MW-53H	8/11/2020 15:36	Oxidation Reduction Potention	-34.27	mv
GC-AP-MW-53H	8/11/2020 15:36	pH	5.79	pH
GC-AP-MW-53H	8/11/2020 15:36	Temperature	22.42	C
GC-AP-MW-53H	8/11/2020 15:36	Turbidity	5.67	NTU
GC-AP-MW-53H	8/11/2020 15:41	Conductivity	715.39	uS/cm
GC-AP-MW-53H	8/11/2020 15:41	DO	0.2	mg/L
GC-AP-MW-53H	8/11/2020 15:41	Depth to Water Detail	10.59	ft
GC-AP-MW-53H	8/11/2020 15:41	Oxidation Reduction Potention	-34.84	mv
GC-AP-MW-53H	8/11/2020 15:41	pH	5.8	pH
GC-AP-MW-53H	8/11/2020 15:41	Temperature	22.26	C
GC-AP-MW-53H	8/11/2020 15:41	Turbidity	4.01	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-54H	8/12/2020 8:25	Conductivity	790.85	uS/cm
GC-AP-MW-54H	8/12/2020 8:25	DO	0.51	mg/L
GC-AP-MW-54H	8/12/2020 8:25	Depth to Water Detail	10.08	ft
GC-AP-MW-54H	8/12/2020 8:25	Oxidation Reduction Potention	-111.81	mv
GC-AP-MW-54H	8/12/2020 8:25	pH	6.6	pH
GC-AP-MW-54H	8/12/2020 8:25	Temperature	21.33	C
GC-AP-MW-54H	8/12/2020 8:25	Turbidity	26.5	NTU
GC-AP-MW-54H	8/12/2020 8:30	Conductivity	784.07	uS/cm
GC-AP-MW-54H	8/12/2020 8:30	DO	0.36	mg/L
GC-AP-MW-54H	8/12/2020 8:30	Depth to Water Detail	10.08	ft
GC-AP-MW-54H	8/12/2020 8:30	Oxidation Reduction Potention	-112.41	mv
GC-AP-MW-54H	8/12/2020 8:30	pH	6.63	pH
GC-AP-MW-54H	8/12/2020 8:30	Temperature	21.18	C
GC-AP-MW-54H	8/12/2020 8:30	Turbidity	7.93	NTU
GC-AP-MW-54H	8/12/2020 8:35	Conductivity	774.93	uS/cm
GC-AP-MW-54H	8/12/2020 8:35	DO	0.3	mg/L
GC-AP-MW-54H	8/12/2020 8:35	Depth to Water Detail	10.08	ft
GC-AP-MW-54H	8/12/2020 8:35	Oxidation Reduction Potention	-112.63	mv
GC-AP-MW-54H	8/12/2020 8:35	pH	6.65	pH
GC-AP-MW-54H	8/12/2020 8:35	Temperature	21.21	C
GC-AP-MW-54H	8/12/2020 8:35	Turbidity	5.18	NTU
GC-AP-MW-54H	8/12/2020 8:40	Conductivity	778.42	uS/cm
GC-AP-MW-54H	8/12/2020 8:40	DO	0.27	mg/L
GC-AP-MW-54H	8/12/2020 8:40	Depth to Water Detail	10.08	ft
GC-AP-MW-54H	8/12/2020 8:40	Oxidation Reduction Potention	-112.79	mv
GC-AP-MW-54H	8/12/2020 8:40	pH	6.67	pH
GC-AP-MW-54H	8/12/2020 8:40	Temperature	21.21	C
GC-AP-MW-54H	8/12/2020 8:40	Turbidity	4.24	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-57H	8/12/2020 9:23	Conductivity	760.55	uS/cm
GC-AP-MW-57H	8/12/2020 9:23	DO	0.34	mg/L
GC-AP-MW-57H	8/12/2020 9:23	Depth to Water Detail	7.56	ft
GC-AP-MW-57H	8/12/2020 9:23	Oxidation Reduction Potention	-74.53	mv
GC-AP-MW-57H	8/12/2020 9:23	pH	6.47	pH
GC-AP-MW-57H	8/12/2020 9:23	Temperature	20.75	C
GC-AP-MW-57H	8/12/2020 9:23	Turbidity	3.83	NTU
GC-AP-MW-57H	8/12/2020 9:28	Conductivity	755.36	uS/cm
GC-AP-MW-57H	8/12/2020 9:28	DO	0.26	mg/L
GC-AP-MW-57H	8/12/2020 9:28	Depth to Water Detail	7.56	ft
GC-AP-MW-57H	8/12/2020 9:28	Oxidation Reduction Potention	-76.07	mv
GC-AP-MW-57H	8/12/2020 9:28	pH	6.47	pH
GC-AP-MW-57H	8/12/2020 9:28	Temperature	20.71	C
GC-AP-MW-57H	8/12/2020 9:28	Turbidity	2.47	NTU
GC-AP-MW-57H	8/12/2020 9:33	Conductivity	749.69	uS/cm
GC-AP-MW-57H	8/12/2020 9:33	DO	0.23	mg/L
GC-AP-MW-57H	8/12/2020 9:33	Depth to Water Detail	7.56	ft
GC-AP-MW-57H	8/12/2020 9:33	Oxidation Reduction Potention	-77.04	mv
GC-AP-MW-57H	8/12/2020 9:33	pH	6.47	pH
GC-AP-MW-57H	8/12/2020 9:33	Temperature	20.65	C
GC-AP-MW-57H	8/12/2020 9:33	Turbidity	2.37	NTU
GC-AP-MW-57H	8/12/2020 9:38	Conductivity	747.63	uS/cm
GC-AP-MW-57H	8/12/2020 9:38	DO	0.21	mg/L
GC-AP-MW-57H	8/12/2020 9:38	Depth to Water Detail	7.56	ft
GC-AP-MW-57H	8/12/2020 9:38	Oxidation Reduction Potention	-77.49	mv
GC-AP-MW-57H	8/12/2020 9:38	pH	6.48	pH
GC-AP-MW-57H	8/12/2020 9:38	Temperature	20.67	C
GC-AP-MW-57H	8/12/2020 9:38	Turbidity	2.18	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-36H	8/11/2020 10:24	Conductivity	292.79	uS/cm
GC-AP-MW-36H	8/11/2020 10:24	DO	0.53	mg/L
GC-AP-MW-36H	8/11/2020 10:24	Depth to Water Detail	26.41	ft
GC-AP-MW-36H	8/11/2020 10:24	Oxidation Reduction Potention	34.51	mv
GC-AP-MW-36H	8/11/2020 10:24	pH	7.59	pH
GC-AP-MW-36H	8/11/2020 10:24	Temperature	22.87	C
GC-AP-MW-36H	8/11/2020 10:24	Turbidity	10.31	NTU
GC-AP-MW-36H	8/11/2020 10:29	Conductivity	294.05	uS/cm
GC-AP-MW-36H	8/11/2020 10:29	DO	0.53	mg/L
GC-AP-MW-36H	8/11/2020 10:29	Depth to Water Detail	26.41	ft
GC-AP-MW-36H	8/11/2020 10:29	Oxidation Reduction Potention	25.32	mv
GC-AP-MW-36H	8/11/2020 10:29	pH	7.62	pH
GC-AP-MW-36H	8/11/2020 10:29	Temperature	22.84	C
GC-AP-MW-36H	8/11/2020 10:29	Turbidity	11.86	NTU
GC-AP-MW-36H	8/11/2020 10:34	Conductivity	295.27	uS/cm
GC-AP-MW-36H	8/11/2020 10:34	DO	0.54	mg/L
GC-AP-MW-36H	8/11/2020 10:34	Depth to Water Detail	26.41	ft
GC-AP-MW-36H	8/11/2020 10:34	Oxidation Reduction Potention	16.64	mv
GC-AP-MW-36H	8/11/2020 10:34	pH	7.66	pH
GC-AP-MW-36H	8/11/2020 10:34	Temperature	22.89	C
GC-AP-MW-36H	8/11/2020 10:34	Turbidity	10.87	NTU
GC-AP-MW-36H	8/11/2020 10:39	Conductivity	296.07	uS/cm
GC-AP-MW-36H	8/11/2020 10:39	DO	0.49	mg/L
GC-AP-MW-36H	8/11/2020 10:39	Depth to Water Detail	26.41	ft
GC-AP-MW-36H	8/11/2020 10:39	Oxidation Reduction Potention	9.42	mv
GC-AP-MW-36H	8/11/2020 10:39	pH	7.68	pH
GC-AP-MW-36H	8/11/2020 10:39	Temperature	22.93	C
GC-AP-MW-36H	8/11/2020 10:39	Turbidity	11.89	NTU
GC-AP-MW-36H	8/11/2020 10:44	Conductivity	296.35	uS/cm
GC-AP-MW-36H	8/11/2020 10:44	DO	0.49	mg/L
GC-AP-MW-36H	8/11/2020 10:44	Depth to Water Detail	26.41	ft
GC-AP-MW-36H	8/11/2020 10:44	Oxidation Reduction Potention	-1.58	mv
GC-AP-MW-36H	8/11/2020 10:44	pH	7.69	pH
GC-AP-MW-36H	8/11/2020 10:44	Temperature	22.97	C
GC-AP-MW-36H	8/11/2020 10:44	Turbidity	9.51	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-40H	8/12/2020 9:27	Conductivity	974.79	uS/cm
GC-AP-MW-40H	8/12/2020 9:27	DO	0.23	mg/L
GC-AP-MW-40H	8/12/2020 9:27	Depth to Water Detail	13.41	ft
GC-AP-MW-40H	8/12/2020 9:27	Oxidation Reduction Potention	55.51	mv
GC-AP-MW-40H	8/12/2020 9:27	pH	5.94	pH
GC-AP-MW-40H	8/12/2020 9:27	Temperature	19.12	C
GC-AP-MW-40H	8/12/2020 9:27	Turbidity	3.5	NTU
GC-AP-MW-40H	8/12/2020 9:32	Conductivity	950.93	uS/cm
GC-AP-MW-40H	8/12/2020 9:32	DO	0.19	mg/L
GC-AP-MW-40H	8/12/2020 9:32	Depth to Water Detail	13.41	ft
GC-AP-MW-40H	8/12/2020 9:32	Oxidation Reduction Potention	63.67	mv
GC-AP-MW-40H	8/12/2020 9:32	pH	5.9	pH
GC-AP-MW-40H	8/12/2020 9:32	Temperature	19.11	C
GC-AP-MW-40H	8/12/2020 9:32	Turbidity	2.48	NTU
GC-AP-MW-40H	8/12/2020 9:37	Conductivity	929.99	uS/cm
GC-AP-MW-40H	8/12/2020 9:37	DO	0.19	mg/L
GC-AP-MW-40H	8/12/2020 9:37	Depth to Water Detail	13.41	ft
GC-AP-MW-40H	8/12/2020 9:37	Oxidation Reduction Potention	71.21	mv
GC-AP-MW-40H	8/12/2020 9:37	pH	5.85	pH
GC-AP-MW-40H	8/12/2020 9:37	Temperature	19.17	C
GC-AP-MW-40H	8/12/2020 9:37	Turbidity	1.47	NTU
GC-AP-MW-40H	8/12/2020 9:42	Conductivity	918.16	uS/cm
GC-AP-MW-40H	8/12/2020 9:42	DO	0.18	mg/L
GC-AP-MW-40H	8/12/2020 9:42	Depth to Water Detail	13.41	ft
GC-AP-MW-40H	8/12/2020 9:42	Oxidation Reduction Potention	77.71	mv
GC-AP-MW-40H	8/12/2020 9:42	pH	5.83	pH
GC-AP-MW-40H	8/12/2020 9:42	Temperature	19.1	C
GC-AP-MW-40H	8/12/2020 9:42	Turbidity	1.86	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-39H	8/11/2020 12:19	Conductivity	765.74	uS/cm
GC-AP-MW-39H	8/11/2020 12:19	DO	0.47	mg/L
GC-AP-MW-39H	8/11/2020 12:19	Depth to Water Detail	35.41	ft
GC-AP-MW-39H	8/11/2020 12:19	Oxidation Reduction Potention	-73.69	mv
GC-AP-MW-39H	8/11/2020 12:19	pH	6.77	pH
GC-AP-MW-39H	8/11/2020 12:19	Temperature	20.1	C
GC-AP-MW-39H	8/11/2020 12:19	Turbidity	8.68	NTU
GC-AP-MW-39H	8/11/2020 12:24	Conductivity	755.84	uS/cm
GC-AP-MW-39H	8/11/2020 12:24	DO	0.36	mg/L
GC-AP-MW-39H	8/11/2020 12:24	Depth to Water Detail	35.41	ft
GC-AP-MW-39H	8/11/2020 12:24	Oxidation Reduction Potention	-75.34	mv
GC-AP-MW-39H	8/11/2020 12:24	pH	6.77	pH
GC-AP-MW-39H	8/11/2020 12:24	Temperature	20.16	C
GC-AP-MW-39H	8/11/2020 12:24	Turbidity	8.85	NTU
GC-AP-MW-39H	8/11/2020 12:29	Conductivity	743.21	uS/cm
GC-AP-MW-39H	8/11/2020 12:29	DO	0.32	mg/L
GC-AP-MW-39H	8/11/2020 12:29	Depth to Water Detail	35.41	ft
GC-AP-MW-39H	8/11/2020 12:29	Oxidation Reduction Potention	-75.03	mv
GC-AP-MW-39H	8/11/2020 12:29	pH	6.75	pH
GC-AP-MW-39H	8/11/2020 12:29	Temperature	20.02	C
GC-AP-MW-39H	8/11/2020 12:29	Turbidity	8.11	NTU
GC-AP-MW-39H	8/11/2020 12:34	Conductivity	737.4	uS/cm
GC-AP-MW-39H	8/11/2020 12:34	DO	0.3	mg/L
GC-AP-MW-39H	8/11/2020 12:34	Depth to Water Detail	35.41	ft
GC-AP-MW-39H	8/11/2020 12:34	Oxidation Reduction Potention	-73.96	mv
GC-AP-MW-39H	8/11/2020 12:34	pH	6.7	pH
GC-AP-MW-39H	8/11/2020 12:34	Temperature	20.18	C
GC-AP-MW-39H	8/11/2020 12:34	Turbidity	6.32	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-16	8/11/2020 13:36	Conductivity	651.24	uS/cm
GC-AP-MW-16	8/11/2020 13:36	DO	0.3	mg/L
GC-AP-MW-16	8/11/2020 13:36	Depth to Water Detail	33.98	ft
GC-AP-MW-16	8/11/2020 13:36	Oxidation Reduction Potention	-43.26	mv
GC-AP-MW-16	8/11/2020 13:36	pH	6.67	pH
GC-AP-MW-16	8/11/2020 13:36	Temperature	20.61	C
GC-AP-MW-16	8/11/2020 13:36	Turbidity	15.6	NTU
GC-AP-MW-16	8/11/2020 13:41	Conductivity	645.1	uS/cm
GC-AP-MW-16	8/11/2020 13:41	DO	0.27	mg/L
GC-AP-MW-16	8/11/2020 13:41	Depth to Water Detail	33.98	ft
GC-AP-MW-16	8/11/2020 13:41	Oxidation Reduction Potention	-46.95	mv
GC-AP-MW-16	8/11/2020 13:41	pH	6.7	pH
GC-AP-MW-16	8/11/2020 13:41	Temperature	20.51	C
GC-AP-MW-16	8/11/2020 13:41	Turbidity	12.7	NTU
GC-AP-MW-16	8/11/2020 13:46	Conductivity	641.93	uS/cm
GC-AP-MW-16	8/11/2020 13:46	DO	0.25	mg/L
GC-AP-MW-16	8/11/2020 13:46	Depth to Water Detail	33.98	ft
GC-AP-MW-16	8/11/2020 13:46	Oxidation Reduction Potention	-48.98	mv
GC-AP-MW-16	8/11/2020 13:46	pH	6.71	pH
GC-AP-MW-16	8/11/2020 13:46	Temperature	20.29	C
GC-AP-MW-16	8/11/2020 13:46	Turbidity	11.44	NTU
GC-AP-MW-16	8/11/2020 13:51	Conductivity	644.98	uS/cm
GC-AP-MW-16	8/11/2020 13:51	DO	0.24	mg/L
GC-AP-MW-16	8/11/2020 13:51	Depth to Water Detail	33.98	ft
GC-AP-MW-16	8/11/2020 13:51	Oxidation Reduction Potention	-49.44	mv
GC-AP-MW-16	8/11/2020 13:51	pH	6.7	pH
GC-AP-MW-16	8/11/2020 13:51	Temperature	20.11	C
GC-AP-MW-16	8/11/2020 13:51	Turbidity	8.79	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-17	8/11/2020 15:17	Conductivity	635.08	uS/cm
GC-AP-MW-17	8/11/2020 15:17	DO	0.3	mg/L
GC-AP-MW-17	8/11/2020 15:17	Depth to Water Detail	30.66	ft
GC-AP-MW-17	8/11/2020 15:17	Oxidation Reduction Potention	-68.73	mv
GC-AP-MW-17	8/11/2020 15:17	pH	6.72	pH
GC-AP-MW-17	8/11/2020 15:17	Temperature	20.65	C
GC-AP-MW-17	8/11/2020 15:17	Turbidity	18.3	NTU
GC-AP-MW-17	8/11/2020 15:22	Conductivity	653.58	uS/cm
GC-AP-MW-17	8/11/2020 15:22	DO	0.26	mg/L
GC-AP-MW-17	8/11/2020 15:22	Depth to Water Detail	30.66	ft
GC-AP-MW-17	8/11/2020 15:22	Oxidation Reduction Potention	-78.72	mv
GC-AP-MW-17	8/11/2020 15:22	pH	6.76	pH
GC-AP-MW-17	8/11/2020 15:22	Temperature	20.67	C
GC-AP-MW-17	8/11/2020 15:22	Turbidity	12.35	NTU
GC-AP-MW-17	8/11/2020 15:27	Conductivity	660.43	uS/cm
GC-AP-MW-17	8/11/2020 15:27	DO	0.24	mg/L
GC-AP-MW-17	8/11/2020 15:27	Depth to Water Detail	30.66	ft
GC-AP-MW-17	8/11/2020 15:27	Oxidation Reduction Potention	-82.66	mv
GC-AP-MW-17	8/11/2020 15:27	pH	6.75	pH
GC-AP-MW-17	8/11/2020 15:27	Temperature	20.7	C
GC-AP-MW-17	8/11/2020 15:27	Turbidity	10.89	NTU
GC-AP-MW-17	8/11/2020 15:32	Conductivity	663.04	uS/cm
GC-AP-MW-17	8/11/2020 15:32	DO	0.23	mg/L
GC-AP-MW-17	8/11/2020 15:32	Depth to Water Detail	30.66	ft
GC-AP-MW-17	8/11/2020 15:32	Oxidation Reduction Potention	-83.56	mv
GC-AP-MW-17	8/11/2020 15:32	pH	6.71	pH
GC-AP-MW-17	8/11/2020 15:32	Temperature	20.65	C
GC-AP-MW-17	8/11/2020 15:32	Turbidity	8.86	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-15	8/12/2020 10:36	Conductivity	590.26	uS/cm
GC-AP-MW-15	8/12/2020 10:36	DO	0.95	mg/L
GC-AP-MW-15	8/12/2020 10:36	Depth to Water Detail	17.52	ft
GC-AP-MW-15	8/12/2020 10:36	Oxidation Reduction Potention	38.29	mv
GC-AP-MW-15	8/12/2020 10:36	pH	6.15	pH
GC-AP-MW-15	8/12/2020 10:36	Temperature	19.69	C
GC-AP-MW-15	8/12/2020 10:36	Turbidity	1.53	NTU
GC-AP-MW-15	8/12/2020 10:41	Conductivity	598.84	uS/cm
GC-AP-MW-15	8/12/2020 10:41	DO	0.84	mg/L
GC-AP-MW-15	8/12/2020 10:41	Depth to Water Detail	17.52	ft
GC-AP-MW-15	8/12/2020 10:41	Oxidation Reduction Potention	34.1	mv
GC-AP-MW-15	8/12/2020 10:41	pH	6.13	pH
GC-AP-MW-15	8/12/2020 10:41	Temperature	19.7	C
GC-AP-MW-15	8/12/2020 10:41	Turbidity	1.36	NTU
GC-AP-MW-15	8/12/2020 10:46	Conductivity	601.38	uS/cm
GC-AP-MW-15	8/12/2020 10:46	DO	0.78	mg/L
GC-AP-MW-15	8/12/2020 10:46	Depth to Water Detail	17.52	ft
GC-AP-MW-15	8/12/2020 10:46	Oxidation Reduction Potention	32.4	mv
GC-AP-MW-15	8/12/2020 10:46	pH	6.12	pH
GC-AP-MW-15	8/12/2020 10:46	Temperature	19.73	C
GC-AP-MW-15	8/12/2020 10:46	Turbidity	1.55	NTU
GC-AP-MW-15	8/12/2020 10:51	Conductivity	595.69	uS/cm
GC-AP-MW-15	8/12/2020 10:51	DO	0.76	mg/L
GC-AP-MW-15	8/12/2020 10:51	Depth to Water Detail	17.52	ft
GC-AP-MW-15	8/12/2020 10:51	Oxidation Reduction Potention	34.53	mv
GC-AP-MW-15	8/12/2020 10:51	pH	6.1	pH
GC-AP-MW-15	8/12/2020 10:51	Temperature	19.75	C
GC-AP-MW-15	8/12/2020 10:51	Turbidity	1.16	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-18	8/12/2020 12:12	Conductivity	652.36	uS/cm
GC-AP-MW-18	8/12/2020 12:12	DO	0.25	mg/L
GC-AP-MW-18	8/12/2020 12:12	Depth to Water Detail	29.94	ft
GC-AP-MW-18	8/12/2020 12:12	Oxidation Reduction Potention	-49.64	mv
GC-AP-MW-18	8/12/2020 12:12	pH	6.75	pH
GC-AP-MW-18	8/12/2020 12:12	Temperature	20.59	C
GC-AP-MW-18	8/12/2020 12:12	Turbidity	2.07	NTU
GC-AP-MW-18	8/12/2020 12:17	Conductivity	653.96	uS/cm
GC-AP-MW-18	8/12/2020 12:17	DO	0.24	mg/L
GC-AP-MW-18	8/12/2020 12:17	Depth to Water Detail	29.94	ft
GC-AP-MW-18	8/12/2020 12:17	Oxidation Reduction Potention	-49.89	mv
GC-AP-MW-18	8/12/2020 12:17	pH	6.71	pH
GC-AP-MW-18	8/12/2020 12:17	Temperature	20.54	C
GC-AP-MW-18	8/12/2020 12:17	Turbidity	2.11	NTU
GC-AP-MW-18	8/12/2020 12:22	Conductivity	653.53	uS/cm
GC-AP-MW-18	8/12/2020 12:22	DO	0.23	mg/L
GC-AP-MW-18	8/12/2020 12:22	Depth to Water Detail	29.94	ft
GC-AP-MW-18	8/12/2020 12:22	Oxidation Reduction Potention	-48.59	mv
GC-AP-MW-18	8/12/2020 12:22	pH	6.67	pH
GC-AP-MW-18	8/12/2020 12:22	Temperature	20.62	C
GC-AP-MW-18	8/12/2020 12:22	Turbidity	3.27	NTU
GC-AP-MW-18	8/12/2020 12:27	Conductivity	654.16	uS/cm
GC-AP-MW-18	8/12/2020 12:27	DO	0.23	mg/L
GC-AP-MW-18	8/12/2020 12:27	Depth to Water Detail	29.94	ft
GC-AP-MW-18	8/12/2020 12:27	Oxidation Reduction Potention	-46.54	mv
GC-AP-MW-18	8/12/2020 12:27	pH	6.62	pH
GC-AP-MW-18	8/12/2020 12:27	Temperature	20.67	C
GC-AP-MW-18	8/12/2020 12:27	Turbidity	2.69	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-24	8/12/2020 13:45	Conductivity	231.36	uS/cm
GC-AP-MW-24	8/12/2020 13:45	DO	5.51	mg/L
GC-AP-MW-24	8/12/2020 13:45	Depth to Water Detail	17.49	ft
GC-AP-MW-24	8/12/2020 13:45	Oxidation Reduction Potention	190.18	mv
GC-AP-MW-24	8/12/2020 13:45	pH	5.24	pH
GC-AP-MW-24	8/12/2020 13:45	Temperature	21.37	C
GC-AP-MW-24	8/12/2020 13:45	Turbidity	1.92	NTU
GC-AP-MW-24	8/12/2020 13:50	Conductivity	239.47	uS/cm
GC-AP-MW-24	8/12/2020 13:50	DO	5.32	mg/L
GC-AP-MW-24	8/12/2020 13:50	Depth to Water Detail	17.49	ft
GC-AP-MW-24	8/12/2020 13:50	Oxidation Reduction Potention	204.3	mv
GC-AP-MW-24	8/12/2020 13:50	pH	5.16	pH
GC-AP-MW-24	8/12/2020 13:50	Temperature	21.44	C
GC-AP-MW-24	8/12/2020 13:50	Turbidity	1.51	NTU
GC-AP-MW-24	8/12/2020 13:55	Conductivity	238.92	uS/cm
GC-AP-MW-24	8/12/2020 13:55	DO	5.3	mg/L
GC-AP-MW-24	8/12/2020 13:55	Depth to Water Detail	17.49	ft
GC-AP-MW-24	8/12/2020 13:55	Oxidation Reduction Potention	212.94	mv
GC-AP-MW-24	8/12/2020 13:55	pH	5.07	pH
GC-AP-MW-24	8/12/2020 13:55	Temperature	21.43	C
GC-AP-MW-24	8/12/2020 13:55	Turbidity	1.12	NTU
GC-AP-MW-24	8/12/2020 13:56	Conductivity	240.31	uS/cm
GC-AP-MW-24	8/12/2020 13:56	DO	5.3	mg/L
GC-AP-MW-24	8/12/2020 13:56	Depth to Water Detail	17.49	ft
GC-AP-MW-24	8/12/2020 13:56	Oxidation Reduction Potention	213.55	mv
GC-AP-MW-24	8/12/2020 13:56	pH	5.04	pH
GC-AP-MW-24	8/12/2020 13:56	Temperature	21.45	C
GC-AP-MW-24	8/12/2020 13:56	Turbidity	1.12	NTU
GC-AP-MW-24	8/12/2020 14:01	Conductivity	242.61	uS/cm
GC-AP-MW-24	8/12/2020 14:01	DO	5.28	mg/L
GC-AP-MW-24	8/12/2020 14:01	Depth to Water Detail	17.49	ft
GC-AP-MW-24	8/12/2020 14:01	Oxidation Reduction Potention	219.91	mv
GC-AP-MW-24	8/12/2020 14:01	pH	4.96	pH
GC-AP-MW-24	8/12/2020 14:01	Temperature	21.47	C
GC-AP-MW-24	8/12/2020 14:01	Turbidity	0.65	NTU
GC-AP-MW-24	8/12/2020 14:06	Conductivity	245.43	uS/cm
GC-AP-MW-24	8/12/2020 14:06	DO	5.26	mg/L
GC-AP-MW-24	8/12/2020 14:06	Depth to Water Detail	17.49	ft
GC-AP-MW-24	8/12/2020 14:06	Oxidation Reduction Potention	219.02	mv
GC-AP-MW-24	8/12/2020 14:06	pH	4.99	pH
GC-AP-MW-24	8/12/2020 14:06	Temperature	21.52	C
GC-AP-MW-24	8/12/2020 14:06	Turbidity	0.62	NTU
GC-AP-MW-24	8/12/2020 14:11	Conductivity	245.21	uS/cm
GC-AP-MW-24	8/12/2020 14:11	DO	5.25	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-24	8/12/2020 14:11	Depth to Water Detail	17.49	ft
GC-AP-MW-24	8/12/2020 14:11	Oxidation Reduction Potention	218.58	mv
GC-AP-MW-24	8/12/2020 14:11	pH	5.04	pH
GC-AP-MW-24	8/12/2020 14:11	Temperature	21.49	C
GC-AP-MW-24	8/12/2020 14:11	Turbidity	1.03	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-23	8/12/2020 15:11	Conductivity	184.1	uS/cm
GC-AP-MW-23	8/12/2020 15:11	DO	5.56	mg/L
GC-AP-MW-23	8/12/2020 15:11	Depth to Water Detail	13.91	ft
GC-AP-MW-23	8/12/2020 15:11	Oxidation Reduction Potention	152.22	mv
GC-AP-MW-23	8/12/2020 15:11	pH	6.25	pH
GC-AP-MW-23	8/12/2020 15:11	Temperature	22.42	C
GC-AP-MW-23	8/12/2020 15:11	Turbidity	2.29	NTU
GC-AP-MW-23	8/12/2020 15:16	Conductivity	178.13	uS/cm
GC-AP-MW-23	8/12/2020 15:16	DO	5.79	mg/L
GC-AP-MW-23	8/12/2020 15:16	Depth to Water Detail	13.91	ft
GC-AP-MW-23	8/12/2020 15:16	Oxidation Reduction Potention	159.15	mv
GC-AP-MW-23	8/12/2020 15:16	pH	6.15	pH
GC-AP-MW-23	8/12/2020 15:16	Temperature	22.4	C
GC-AP-MW-23	8/12/2020 15:16	Turbidity	1.55	NTU
GC-AP-MW-23	8/12/2020 15:21	Conductivity	175.22	uS/cm
GC-AP-MW-23	8/12/2020 15:21	DO	5.94	mg/L
GC-AP-MW-23	8/12/2020 15:21	Depth to Water Detail	13.91	ft
GC-AP-MW-23	8/12/2020 15:21	Oxidation Reduction Potention	164.21	mv
GC-AP-MW-23	8/12/2020 15:21	pH	6.07	pH
GC-AP-MW-23	8/12/2020 15:21	Temperature	22.46	C
GC-AP-MW-23	8/12/2020 15:21	Turbidity	1.51	NTU
GC-AP-MW-23	8/12/2020 15:26	Conductivity	168.56	uS/cm
GC-AP-MW-23	8/12/2020 15:26	DO	5.97	mg/L
GC-AP-MW-23	8/12/2020 15:26	Depth to Water Detail	13.91	ft
GC-AP-MW-23	8/12/2020 15:26	Oxidation Reduction Potention	166.73	mv
GC-AP-MW-23	8/12/2020 15:26	pH	6.05	pH
GC-AP-MW-23	8/12/2020 15:26	Temperature	22.4	C
GC-AP-MW-23	8/12/2020 15:26	Turbidity	1.39	NTU
GC-AP-MW-23	8/12/2020 15:31	Conductivity	169.61	uS/cm
GC-AP-MW-23	8/12/2020 15:31	DO	5.96	mg/L
GC-AP-MW-23	8/12/2020 15:31	Depth to Water Detail	13.91	ft
GC-AP-MW-23	8/12/2020 15:31	Oxidation Reduction Potention	168.32	mv
GC-AP-MW-23	8/12/2020 15:31	pH	6.03	pH
GC-AP-MW-23	8/12/2020 15:31	Temperature	22.44	C
GC-AP-MW-23	8/12/2020 15:31	Turbidity	1.27	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-45H	8/17/2020 13:17	Conductivity	452.17	uS/cm
GC-AP-MW-45H	8/17/2020 13:17	DO	0.81	mg/L
GC-AP-MW-45H	8/17/2020 13:17	Depth to Water Detail	20.79	ft
GC-AP-MW-45H	8/17/2020 13:17	Oxidation Reduction Potention	-41.75	mv
GC-AP-MW-45H	8/17/2020 13:17	pH	6.93	pH
GC-AP-MW-45H	8/17/2020 13:17	Temperature	22.5	C
GC-AP-MW-45H	8/17/2020 13:17	Turbidity	3.58	NTU
GC-AP-MW-45H	8/17/2020 13:22	Conductivity	449.25	uS/cm
GC-AP-MW-45H	8/17/2020 13:22	DO	0.78	mg/L
GC-AP-MW-45H	8/17/2020 13:22	Depth to Water Detail	20.79	ft
GC-AP-MW-45H	8/17/2020 13:22	Oxidation Reduction Potention	-36.33	mv
GC-AP-MW-45H	8/17/2020 13:22	pH	6.81	pH
GC-AP-MW-45H	8/17/2020 13:22	Temperature	22.95	C
GC-AP-MW-45H	8/17/2020 13:22	Turbidity	2.28	NTU
GC-AP-MW-45H	8/17/2020 13:27	Conductivity	435.75	uS/cm
GC-AP-MW-45H	8/17/2020 13:27	DO	0.75	mg/L
GC-AP-MW-45H	8/17/2020 13:27	Depth to Water Detail	20.79	ft
GC-AP-MW-45H	8/17/2020 13:27	Oxidation Reduction Potention	-43.95	mv
GC-AP-MW-45H	8/17/2020 13:27	pH	6.92	pH
GC-AP-MW-45H	8/17/2020 13:27	Temperature	22.75	C
GC-AP-MW-45H	8/17/2020 13:27	Turbidity	1.6	NTU
GC-AP-MW-45H	8/17/2020 13:32	Conductivity	439.62	uS/cm
GC-AP-MW-45H	8/17/2020 13:32	DO	0.76	mg/L
GC-AP-MW-45H	8/17/2020 13:32	Depth to Water Detail	20.79	ft
GC-AP-MW-45H	8/17/2020 13:32	Oxidation Reduction Potention	-45.66	mv
GC-AP-MW-45H	8/17/2020 13:32	pH	6.94	pH
GC-AP-MW-45H	8/17/2020 13:32	Temperature	22.76	C
GC-AP-MW-45H	8/17/2020 13:32	Turbidity	1.35	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-48H	8/17/2020 15:15	Conductivity	273.73	uS/cm
GC-AP-MW-48H	8/17/2020 15:15	DO	0.58	mg/L
GC-AP-MW-48H	8/17/2020 15:15	Depth to Water Detail	9.06	ft
GC-AP-MW-48H	8/17/2020 15:15	Oxidation Reduction Potention	34.06	mv
GC-AP-MW-48H	8/17/2020 15:15	pH	6.54	pH
GC-AP-MW-48H	8/17/2020 15:15	Temperature	20.35	C
GC-AP-MW-48H	8/17/2020 15:15	Turbidity	1.11	NTU
GC-AP-MW-48H	8/17/2020 15:20	Conductivity	276.31	uS/cm
GC-AP-MW-48H	8/17/2020 15:20	DO	0.49	mg/L
GC-AP-MW-48H	8/17/2020 15:20	Depth to Water Detail	9.06	ft
GC-AP-MW-48H	8/17/2020 15:20	Oxidation Reduction Potention	44.23	mv
GC-AP-MW-48H	8/17/2020 15:20	pH	6.44	pH
GC-AP-MW-48H	8/17/2020 15:20	Temperature	20.36	C
GC-AP-MW-48H	8/17/2020 15:20	Turbidity	0.76	NTU
GC-AP-MW-48H	8/17/2020 15:25	Conductivity	274.46	uS/cm
GC-AP-MW-48H	8/17/2020 15:25	DO	0.47	mg/L
GC-AP-MW-48H	8/17/2020 15:25	Depth to Water Detail	9.06	ft
GC-AP-MW-48H	8/17/2020 15:25	Oxidation Reduction Potention	51.59	mv
GC-AP-MW-48H	8/17/2020 15:25	pH	6.34	pH
GC-AP-MW-48H	8/17/2020 15:25	Temperature	20.46	C
GC-AP-MW-48H	8/17/2020 15:25	Turbidity	0.43	NTU
GC-AP-MW-48H	8/17/2020 15:30	Conductivity	274.85	uS/cm
GC-AP-MW-48H	8/17/2020 15:30	DO	0.5	mg/L
GC-AP-MW-48H	8/17/2020 15:30	Depth to Water Detail	9.06	ft
GC-AP-MW-48H	8/17/2020 15:30	Oxidation Reduction Potention	59.08	mv
GC-AP-MW-48H	8/17/2020 15:30	pH	6.24	pH
GC-AP-MW-48H	8/17/2020 15:30	Temperature	20.38	C
GC-AP-MW-48H	8/17/2020 15:30	Turbidity	0.36	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-26	8/18/2020 8:23	Conductivity	58.94	uS/cm
GC-AP-MW-26	8/18/2020 8:23	DO	6.11	mg/L
GC-AP-MW-26	8/18/2020 8:23	Depth to Water Detail	8.76	ft
GC-AP-MW-26	8/18/2020 8:23	Oxidation Reduction Potention	182.56	mv
GC-AP-MW-26	8/18/2020 8:23	pH	4.7	pH
GC-AP-MW-26	8/18/2020 8:23	Temperature	19.41	C
GC-AP-MW-26	8/18/2020 8:23	Turbidity	1.51	NTU
GC-AP-MW-26	8/18/2020 8:28	Conductivity	60.22	uS/cm
GC-AP-MW-26	8/18/2020 8:28	DO	6.14	mg/L
GC-AP-MW-26	8/18/2020 8:28	Depth to Water Detail	8.76	ft
GC-AP-MW-26	8/18/2020 8:28	Oxidation Reduction Potention	190.12	mv
GC-AP-MW-26	8/18/2020 8:28	pH	4.74	pH
GC-AP-MW-26	8/18/2020 8:28	Temperature	19.43	C
GC-AP-MW-26	8/18/2020 8:28	Turbidity	1.33	NTU
GC-AP-MW-26	8/18/2020 8:33	Conductivity	62.22	uS/cm
GC-AP-MW-26	8/18/2020 8:33	DO	6.21	mg/L
GC-AP-MW-26	8/18/2020 8:33	Depth to Water Detail	8.76	ft
GC-AP-MW-26	8/18/2020 8:33	Oxidation Reduction Potention	196.22	mv
GC-AP-MW-26	8/18/2020 8:33	pH	4.76	pH
GC-AP-MW-26	8/18/2020 8:33	Temperature	19.4	C
GC-AP-MW-26	8/18/2020 8:33	Turbidity	0.43	NTU
GC-AP-MW-26	8/18/2020 8:38	Conductivity	60.95	uS/cm
GC-AP-MW-26	8/18/2020 8:38	DO	6.22	mg/L
GC-AP-MW-26	8/18/2020 8:38	Depth to Water Detail	8.76	ft
GC-AP-MW-26	8/18/2020 8:38	Oxidation Reduction Potention	197.83	mv
GC-AP-MW-26	8/18/2020 8:38	pH	4.79	pH
GC-AP-MW-26	8/18/2020 8:38	Temperature	19.39	C
GC-AP-MW-26	8/18/2020 8:38	Turbidity	0.2	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-29	8/18/2020 9:37	Conductivity	19.21	uS/cm
GC-AP-MW-29	8/18/2020 9:37	DO	8.98	mg/L
GC-AP-MW-29	8/18/2020 9:37	Depth to Water Detail	24.94	ft
GC-AP-MW-29	8/18/2020 9:37	Oxidation Reduction Potention	226.63	mv
GC-AP-MW-29	8/18/2020 9:37	pH	4.4	pH
GC-AP-MW-29	8/18/2020 9:37	Temperature	18.68	C
GC-AP-MW-29	8/18/2020 9:37	Turbidity	2.46	NTU
GC-AP-MW-29	8/18/2020 9:42	Conductivity	18.5	uS/cm
GC-AP-MW-29	8/18/2020 9:42	DO	8.96	mg/L
GC-AP-MW-29	8/18/2020 9:42	Depth to Water Detail	24.94	ft
GC-AP-MW-29	8/18/2020 9:42	Oxidation Reduction Potention	238.04	mv
GC-AP-MW-29	8/18/2020 9:42	pH	4.27	pH
GC-AP-MW-29	8/18/2020 9:42	Temperature	18.7	C
GC-AP-MW-29	8/18/2020 9:42	Turbidity	2.71	NTU
GC-AP-MW-29	8/18/2020 9:47	Conductivity	17.09	uS/cm
GC-AP-MW-29	8/18/2020 9:47	DO	9	mg/L
GC-AP-MW-29	8/18/2020 9:47	Depth to Water Detail	24.94	ft
GC-AP-MW-29	8/18/2020 9:47	Oxidation Reduction Potention	247.79	mv
GC-AP-MW-29	8/18/2020 9:47	pH	4.21	pH
GC-AP-MW-29	8/18/2020 9:47	Temperature	18.7	C
GC-AP-MW-29	8/18/2020 9:47	Turbidity	2.05	NTU
GC-AP-MW-29	8/18/2020 9:52	Conductivity	17.01	uS/cm
GC-AP-MW-29	8/18/2020 9:52	DO	8.99	mg/L
GC-AP-MW-29	8/18/2020 9:52	Depth to Water Detail	24.94	ft
GC-AP-MW-29	8/18/2020 9:52	Oxidation Reduction Potention	250.86	mv
GC-AP-MW-29	8/18/2020 9:52	pH	4.2	pH
GC-AP-MW-29	8/18/2020 9:52	Temperature	18.72	C
GC-AP-MW-29	8/18/2020 9:52	Turbidity	1.72	NTU
GC-AP-MW-29	8/18/2020 9:57	Conductivity	16.42	uS/cm
GC-AP-MW-29	8/18/2020 9:57	DO	9.03	mg/L
GC-AP-MW-29	8/18/2020 9:57	Depth to Water Detail	24.94	ft
GC-AP-MW-29	8/18/2020 9:57	Oxidation Reduction Potention	254.6	mv
GC-AP-MW-29	8/18/2020 9:57	pH	4.22	pH
GC-AP-MW-29	8/18/2020 9:57	Temperature	18.75	C
GC-AP-MW-29	8/18/2020 9:57	Turbidity	1.34	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-30	8/18/2020 10:36	Conductivity	32.96	uS/cm
GC-AP-MW-30	8/18/2020 10:36	DO	4.36	mg/L
GC-AP-MW-30	8/18/2020 10:36	Depth to Water Detail	10.06	ft
GC-AP-MW-30	8/18/2020 10:36	Oxidation Reduction Potention	222.06	mv
GC-AP-MW-30	8/18/2020 10:36	pH	4.84	pH
GC-AP-MW-30	8/18/2020 10:36	Temperature	18.78	C
GC-AP-MW-30	8/18/2020 10:36	Turbidity	1.13	NTU
GC-AP-MW-30	8/18/2020 10:41	Conductivity	33	uS/cm
GC-AP-MW-30	8/18/2020 10:41	DO	4.37	mg/L
GC-AP-MW-30	8/18/2020 10:41	Depth to Water Detail	10.06	ft
GC-AP-MW-30	8/18/2020 10:41	Oxidation Reduction Potention	224.99	mv
GC-AP-MW-30	8/18/2020 10:41	pH	4.81	pH
GC-AP-MW-30	8/18/2020 10:41	Temperature	18.77	C
GC-AP-MW-30	8/18/2020 10:41	Turbidity	0.43	NTU
GC-AP-MW-30	8/18/2020 10:46	Conductivity	32.52	uS/cm
GC-AP-MW-30	8/18/2020 10:46	DO	4.39	mg/L
GC-AP-MW-30	8/18/2020 10:46	Depth to Water Detail	10.06	ft
GC-AP-MW-30	8/18/2020 10:46	Oxidation Reduction Potention	229.02	mv
GC-AP-MW-30	8/18/2020 10:46	pH	4.76	pH
GC-AP-MW-30	8/18/2020 10:46	Temperature	18.79	C
GC-AP-MW-30	8/18/2020 10:46	Turbidity	0.27	NTU
GC-AP-MW-30	8/18/2020 10:51	Conductivity	32.43	uS/cm
GC-AP-MW-30	8/18/2020 10:51	DO	4.38	mg/L
GC-AP-MW-30	8/18/2020 10:51	Depth to Water Detail	10.06	ft
GC-AP-MW-30	8/18/2020 10:51	Oxidation Reduction Potention	229.96	mv
GC-AP-MW-30	8/18/2020 10:51	pH	4.76	pH
GC-AP-MW-30	8/18/2020 10:51	Temperature	18.8	C
GC-AP-MW-30	8/18/2020 10:51	Turbidity	0.96	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-27	8/18/2020 11:35	Conductivity	33.2	uS/cm
GC-AP-MW-27	8/18/2020 11:35	DO	8.05	mg/L
GC-AP-MW-27	8/18/2020 11:35	Depth to Water Detail	10.38	ft
GC-AP-MW-27	8/18/2020 11:35	Oxidation Reduction Potention	232.19	mv
GC-AP-MW-27	8/18/2020 11:35	pH	4.74	pH
GC-AP-MW-27	8/18/2020 11:35	Temperature	19.68	C
GC-AP-MW-27	8/18/2020 11:35	Turbidity	0.03	NTU
GC-AP-MW-27	8/18/2020 11:40	Conductivity	33.66	uS/cm
GC-AP-MW-27	8/18/2020 11:40	DO	8	mg/L
GC-AP-MW-27	8/18/2020 11:40	Depth to Water Detail	10.38	ft
GC-AP-MW-27	8/18/2020 11:40	Oxidation Reduction Potention	234.82	mv
GC-AP-MW-27	8/18/2020 11:40	pH	4.76	pH
GC-AP-MW-27	8/18/2020 11:40	Temperature	19.67	C
GC-AP-MW-27	8/18/2020 11:40	Turbidity	0.11	NTU
GC-AP-MW-27	8/18/2020 11:45	Conductivity	33.76	uS/cm
GC-AP-MW-27	8/18/2020 11:45	DO	8.04	mg/L
GC-AP-MW-27	8/18/2020 11:45	Depth to Water Detail	10.38	ft
GC-AP-MW-27	8/18/2020 11:45	Oxidation Reduction Potention	238.65	mv
GC-AP-MW-27	8/18/2020 11:45	pH	4.75	pH
GC-AP-MW-27	8/18/2020 11:45	Temperature	19.69	C
GC-AP-MW-27	8/18/2020 11:45	Turbidity	0.2	NTU
GC-AP-MW-27	8/18/2020 11:50	Conductivity	33.77	uS/cm
GC-AP-MW-27	8/18/2020 11:50	DO	8.02	mg/L
GC-AP-MW-27	8/18/2020 11:50	Depth to Water Detail	10.38	ft
GC-AP-MW-27	8/18/2020 11:50	Oxidation Reduction Potention	241.62	mv
GC-AP-MW-27	8/18/2020 11:50	pH	4.75	pH
GC-AP-MW-27	8/18/2020 11:50	Temperature	19.67	C
GC-AP-MW-27	8/18/2020 11:50	Turbidity	0.01	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-28	8/18/2020 12:27	Conductivity	59.45	uS/cm
GC-AP-MW-28	8/18/2020 12:27	DO	8.05	mg/L
GC-AP-MW-28	8/18/2020 12:27	Depth to Water Detail	10.06	ft
GC-AP-MW-28	8/18/2020 12:27	Oxidation Reduction Potention	247.76	mv
GC-AP-MW-28	8/18/2020 12:27	pH	4.64	pH
GC-AP-MW-28	8/18/2020 12:27	Temperature	19.02	C
GC-AP-MW-28	8/18/2020 12:27	Turbidity	0.31	NTU
GC-AP-MW-28	8/18/2020 12:32	Conductivity	58.5	uS/cm
GC-AP-MW-28	8/18/2020 12:32	DO	7.97	mg/L
GC-AP-MW-28	8/18/2020 12:32	Depth to Water Detail	10.06	ft
GC-AP-MW-28	8/18/2020 12:32	Oxidation Reduction Potention	251.45	mv
GC-AP-MW-28	8/18/2020 12:32	pH	4.65	pH
GC-AP-MW-28	8/18/2020 12:32	Temperature	19.06	C
GC-AP-MW-28	8/18/2020 12:32	Turbidity	0.05	NTU
GC-AP-MW-28	8/18/2020 12:37	Conductivity	58.45	uS/cm
GC-AP-MW-28	8/18/2020 12:37	DO	7.89	mg/L
GC-AP-MW-28	8/18/2020 12:37	Depth to Water Detail	10.06	ft
GC-AP-MW-28	8/18/2020 12:37	Oxidation Reduction Potention	259.3	mv
GC-AP-MW-28	8/18/2020 12:37	pH	4.59	pH
GC-AP-MW-28	8/18/2020 12:37	Temperature	19.06	C
GC-AP-MW-28	8/18/2020 12:37	Turbidity	0.11	NTU
GC-AP-MW-28	8/18/2020 12:42	Conductivity	57.09	uS/cm
GC-AP-MW-28	8/18/2020 12:42	DO	7.82	mg/L
GC-AP-MW-28	8/18/2020 12:42	Depth to Water Detail	10.06	ft
GC-AP-MW-28	8/18/2020 12:42	Oxidation Reduction Potention	261.86	mv
GC-AP-MW-28	8/18/2020 12:42	pH	4.59	pH
GC-AP-MW-28	8/18/2020 12:42	Temperature	19.02	C
GC-AP-MW-28	8/18/2020 12:42	Turbidity	0.45	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-37H	8/19/2020 8:45	Conductivity	1099.82	uS/cm
GC-AP-MW-37H	8/19/2020 8:45	DO	1.34	mg/L
GC-AP-MW-37H	8/19/2020 8:45	Depth to Water Detail	29.51	ft
GC-AP-MW-37H	8/19/2020 8:45	Oxidation Reduction Potention	-33.29	mv
GC-AP-MW-37H	8/19/2020 8:45	pH	5.95	pH
GC-AP-MW-37H	8/19/2020 8:45	Temperature	23.05	C
GC-AP-MW-37H	8/19/2020 8:45	Turbidity	13.6	NTU
GC-AP-MW-37H	8/19/2020 8:49	Conductivity	1089.57	uS/cm
GC-AP-MW-37H	8/19/2020 8:49	DO	1.27	mg/L
GC-AP-MW-37H	8/19/2020 8:49	Depth to Water Detail	29.63	ft
GC-AP-MW-37H	8/19/2020 8:49	Oxidation Reduction Potention	-29.77	mv
GC-AP-MW-37H	8/19/2020 8:49	pH	5.95	pH
GC-AP-MW-37H	8/19/2020 8:49	Temperature	23.14	C
GC-AP-MW-37H	8/19/2020 8:49	Turbidity	15.7	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-38H	8/19/2020 11:10	Conductivity	531.42	uS/cm
GC-AP-MW-38H	8/19/2020 11:10	DO	2.35	mg/L
GC-AP-MW-38H	8/19/2020 11:10	Depth to Water Detail	20.84	ft
GC-AP-MW-38H	8/19/2020 11:10	Oxidation Reduction Potention	52.72	mv
GC-AP-MW-38H	8/19/2020 11:10	pH	6.56	pH
GC-AP-MW-38H	8/19/2020 11:10	Temperature	22.64	C
GC-AP-MW-38H	8/19/2020 11:10	Turbidity	6.4	NTU
GC-AP-MW-38H	8/19/2020 11:15	Conductivity	506.59	uS/cm
GC-AP-MW-38H	8/19/2020 11:15	DO	2.62	mg/L
GC-AP-MW-38H	8/19/2020 11:15	Depth to Water Detail	21.03	ft
GC-AP-MW-38H	8/19/2020 11:15	Oxidation Reduction Potention	56.6	mv
GC-AP-MW-38H	8/19/2020 11:15	pH	6.55	pH
GC-AP-MW-38H	8/19/2020 11:15	Temperature	22.49	C
GC-AP-MW-38H	8/19/2020 11:15	Turbidity	3.62	NTU
GC-AP-MW-38H	8/19/2020 11:20	Conductivity	504.77	uS/cm
GC-AP-MW-38H	8/19/2020 11:20	DO	2.62	mg/L
GC-AP-MW-38H	8/19/2020 11:20	Depth to Water Detail	21.09	ft
GC-AP-MW-38H	8/19/2020 11:20	Oxidation Reduction Potention	59.94	mv
GC-AP-MW-38H	8/19/2020 11:20	pH	6.54	pH
GC-AP-MW-38H	8/19/2020 11:20	Temperature	22.44	C
GC-AP-MW-38H	8/19/2020 11:20	Turbidity	3.59	NTU
GC-AP-MW-38H	8/19/2020 11:25	Conductivity	509.57	uS/cm
GC-AP-MW-38H	8/19/2020 11:25	DO	2.65	mg/L
GC-AP-MW-38H	8/19/2020 11:25	Depth to Water Detail	21.13	ft
GC-AP-MW-38H	8/19/2020 11:25	Oxidation Reduction Potention	60.73	mv
GC-AP-MW-38H	8/19/2020 11:25	pH	6.57	pH
GC-AP-MW-38H	8/19/2020 11:25	Temperature	22.47	C
GC-AP-MW-38H	8/19/2020 11:25	Turbidity	2.89	NTU

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Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-49H	8/19/2020 12:37	Conductivity	296.76	uS/cm
GC-AP-MW-49H	8/19/2020 12:37	DO	0.91	mg/L
GC-AP-MW-49H	8/19/2020 12:37	Depth to Water Detail	10.06	ft
GC-AP-MW-49H	8/19/2020 12:37	Oxidation Reduction Potention	73.9	mv
GC-AP-MW-49H	8/19/2020 12:37	pH	6.26	pH
GC-AP-MW-49H	8/19/2020 12:37	Temperature	22	C
GC-AP-MW-49H	8/19/2020 12:37	Turbidity	3.22	NTU
GC-AP-MW-49H	8/19/2020 12:42	Conductivity	298.92	uS/cm
GC-AP-MW-49H	8/19/2020 12:42	DO	0.84	mg/L
GC-AP-MW-49H	8/19/2020 12:42	Depth to Water Detail	10.06	ft
GC-AP-MW-49H	8/19/2020 12:42	Oxidation Reduction Potention	70.64	mv
GC-AP-MW-49H	8/19/2020 12:42	pH	6.26	pH
GC-AP-MW-49H	8/19/2020 12:42	Temperature	21.92	C
GC-AP-MW-49H	8/19/2020 12:42	Turbidity	2.47	NTU
GC-AP-MW-49H	8/19/2020 12:47	Conductivity	298.43	uS/cm
GC-AP-MW-49H	8/19/2020 12:47	DO	0.94	mg/L
GC-AP-MW-49H	8/19/2020 12:47	Depth to Water Detail	10.06	ft
GC-AP-MW-49H	8/19/2020 12:47	Oxidation Reduction Potention	78.83	mv
GC-AP-MW-49H	8/19/2020 12:47	pH	6.07	pH
GC-AP-MW-49H	8/19/2020 12:47	Temperature	21.99	C
GC-AP-MW-49H	8/19/2020 12:47	Turbidity	1.7	NTU
GC-AP-MW-49H	8/19/2020 12:52	Conductivity	299.53	uS/cm
GC-AP-MW-49H	8/19/2020 12:52	DO	0.88	mg/L
GC-AP-MW-49H	8/19/2020 12:52	Depth to Water Detail	10.06	ft
GC-AP-MW-49H	8/19/2020 12:52	Oxidation Reduction Potention	73.9	mv
GC-AP-MW-49H	8/19/2020 12:52	pH	6.14	pH
GC-AP-MW-49H	8/19/2020 12:52	Temperature	21.74	C
GC-AP-MW-49H	8/19/2020 12:52	Turbidity	1.5	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-42H	8/19/2020 13:36	Conductivity	587.6	uS/cm
GC-AP-MW-42H	8/19/2020 13:36	DO	0.22	mg/L
GC-AP-MW-42H	8/19/2020 13:36	Depth to Water Detail	7.31	ft
GC-AP-MW-42H	8/19/2020 13:36	Oxidation Reduction Potention	30.69	mv
GC-AP-MW-42H	8/19/2020 13:36	pH	6.34	pH
GC-AP-MW-42H	8/19/2020 13:36	Temperature	20.95	C
GC-AP-MW-42H	8/19/2020 13:36	Turbidity	1.37	NTU
GC-AP-MW-42H	8/19/2020 13:41	Conductivity	579.87	uS/cm
GC-AP-MW-42H	8/19/2020 13:41	DO	0.21	mg/L
GC-AP-MW-42H	8/19/2020 13:41	Depth to Water Detail	7.34	ft
GC-AP-MW-42H	8/19/2020 13:41	Oxidation Reduction Potention	25.82	mv
GC-AP-MW-42H	8/19/2020 13:41	pH	6.33	pH
GC-AP-MW-42H	8/19/2020 13:41	Temperature	20.43	C
GC-AP-MW-42H	8/19/2020 13:41	Turbidity	1.05	NTU
GC-AP-MW-42H	8/19/2020 13:46	Conductivity	572.7	uS/cm
GC-AP-MW-42H	8/19/2020 13:46	DO	0.19	mg/L
GC-AP-MW-42H	8/19/2020 13:46	Depth to Water Detail	7.37	ft
GC-AP-MW-42H	8/19/2020 13:46	Oxidation Reduction Potention	23.94	mv
GC-AP-MW-42H	8/19/2020 13:46	pH	6.3	pH
GC-AP-MW-42H	8/19/2020 13:46	Temperature	20.45	C
GC-AP-MW-42H	8/19/2020 13:46	Turbidity	0.78	NTU
GC-AP-MW-42H	8/19/2020 13:51	Conductivity	568.13	uS/cm
GC-AP-MW-42H	8/19/2020 13:51	DO	0.19	mg/L
GC-AP-MW-42H	8/19/2020 13:51	Depth to Water Detail	7.37	ft
GC-AP-MW-42H	8/19/2020 13:51	Oxidation Reduction Potention	23.49	mv
GC-AP-MW-42H	8/19/2020 13:51	pH	6.27	pH
GC-AP-MW-42H	8/19/2020 13:51	Temperature	20.43	C
GC-AP-MW-42H	8/19/2020 13:51	Turbidity	0.82	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-1	8/17/2020 13:00	Conductivity	1516.1	uS/cm
GC-AP-MW-1	8/17/2020 13:00	DO	1.24	mg/L
GC-AP-MW-1	8/17/2020 13:00	Depth to Water Detail	16.86	ft
GC-AP-MW-1	8/17/2020 13:00	Oxidation Reduction Potention	39.29	mv
GC-AP-MW-1	8/17/2020 13:00	pH	5.46	pH
GC-AP-MW-1	8/17/2020 13:00	Temperature	21.85	C
GC-AP-MW-1	8/17/2020 13:00	Turbidity	1.76	NTU
GC-AP-MW-1	8/17/2020 13:05	Conductivity	1496.59	uS/cm
GC-AP-MW-1	8/17/2020 13:05	DO	0.89	mg/L
GC-AP-MW-1	8/17/2020 13:05	Depth to Water Detail	16.86	ft
GC-AP-MW-1	8/17/2020 13:05	Oxidation Reduction Potention	34.82	mv
GC-AP-MW-1	8/17/2020 13:05	pH	5.47	pH
GC-AP-MW-1	8/17/2020 13:05	Temperature	21.75	C
GC-AP-MW-1	8/17/2020 13:05	Turbidity	1.63	NTU
GC-AP-MW-1	8/17/2020 13:10	Conductivity	1485.45	uS/cm
GC-AP-MW-1	8/17/2020 13:10	DO	0.77	mg/L
GC-AP-MW-1	8/17/2020 13:10	Depth to Water Detail	16.86	ft
GC-AP-MW-1	8/17/2020 13:10	Oxidation Reduction Potention	32.13	mv
GC-AP-MW-1	8/17/2020 13:10	pH	5.48	pH
GC-AP-MW-1	8/17/2020 13:10	Temperature	21.72	C
GC-AP-MW-1	8/17/2020 13:10	Turbidity	1.7	NTU
GC-AP-MW-1	8/17/2020 13:15	Conductivity	1461.25	uS/cm
GC-AP-MW-1	8/17/2020 13:15	DO	0.71	mg/L
GC-AP-MW-1	8/17/2020 13:15	Depth to Water Detail	16.86	ft
GC-AP-MW-1	8/17/2020 13:15	Oxidation Reduction Potention	30.1	mv
GC-AP-MW-1	8/17/2020 13:15	pH	5.49	pH
GC-AP-MW-1	8/17/2020 13:15	Temperature	21.75	C
GC-AP-MW-1	8/17/2020 13:15	Turbidity	1.67	NTU
GC-AP-MW-1	8/17/2020 13:20	Conductivity	1570.74	uS/cm
GC-AP-MW-1	8/17/2020 13:20	DO	0.67	mg/L
GC-AP-MW-1	8/17/2020 13:20	Depth to Water Detail	16.86	ft
GC-AP-MW-1	8/17/2020 13:20	Oxidation Reduction Potention	28.02	mv
GC-AP-MW-1	8/17/2020 13:20	pH	5.5	pH
GC-AP-MW-1	8/17/2020 13:20	Temperature	21.65	C
GC-AP-MW-1	8/17/2020 13:20	Turbidity	1.72	NTU
GC-AP-MW-1	8/17/2020 13:25	Conductivity	1556.88	uS/cm
GC-AP-MW-1	8/17/2020 13:25	DO	0.65	mg/L
GC-AP-MW-1	8/17/2020 13:25	Depth to Water Detail	16.86	ft
GC-AP-MW-1	8/17/2020 13:25	Oxidation Reduction Potention	26.48	mv
GC-AP-MW-1	8/17/2020 13:25	pH	5.51	pH
GC-AP-MW-1	8/17/2020 13:25	Temperature	21.75	C
GC-AP-MW-1	8/17/2020 13:25	Turbidity	1.61	NTU
GC-AP-MW-1	8/17/2020 13:30	Conductivity	1538.05	uS/cm
GC-AP-MW-1	8/17/2020 13:30	DO	0.63	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-1	8/17/2020 13:30	Depth to Water Detail	16.86	ft
GC-AP-MW-1	8/17/2020 13:30	Oxidation Reduction Potention	24.09	mv
GC-AP-MW-1	8/17/2020 13:30	pH	5.54	pH
GC-AP-MW-1	8/17/2020 13:30	Temperature	21.68	C
GC-AP-MW-1	8/17/2020 13:30	Turbidity	1.7	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-2	8/17/2020 14:19	Conductivity	1009.76	uS/cm
GC-AP-MW-2	8/17/2020 14:19	DO	1.03	mg/L
GC-AP-MW-2	8/17/2020 14:19	Depth to Water Detail	12.61	ft
GC-AP-MW-2	8/17/2020 14:19	Oxidation Reduction Potention	21.05	mv
GC-AP-MW-2	8/17/2020 14:19	pH	5.82	pH
GC-AP-MW-2	8/17/2020 14:19	Temperature	23.95	C
GC-AP-MW-2	8/17/2020 14:19	Turbidity	3.16	NTU
GC-AP-MW-2	8/17/2020 14:24	Conductivity	1005.38	uS/cm
GC-AP-MW-2	8/17/2020 14:24	DO	0.85	mg/L
GC-AP-MW-2	8/17/2020 14:24	Depth to Water Detail	12.61	ft
GC-AP-MW-2	8/17/2020 14:24	Oxidation Reduction Potention	19.69	mv
GC-AP-MW-2	8/17/2020 14:24	pH	5.84	pH
GC-AP-MW-2	8/17/2020 14:24	Temperature	24	C
GC-AP-MW-2	8/17/2020 14:24	Turbidity	2.32	NTU
GC-AP-MW-2	8/17/2020 14:29	Conductivity	1007.89	uS/cm
GC-AP-MW-2	8/17/2020 14:29	DO	0.79	mg/L
GC-AP-MW-2	8/17/2020 14:29	Depth to Water Detail	12.61	ft
GC-AP-MW-2	8/17/2020 14:29	Oxidation Reduction Potention	17.21	mv
GC-AP-MW-2	8/17/2020 14:29	pH	5.89	pH
GC-AP-MW-2	8/17/2020 14:29	Temperature	23.98	C
GC-AP-MW-2	8/17/2020 14:29	Turbidity	2.21	NTU
GC-AP-MW-2	8/17/2020 14:34	Conductivity	1009.86	uS/cm
GC-AP-MW-2	8/17/2020 14:34	DO	0.76	mg/L
GC-AP-MW-2	8/17/2020 14:34	Depth to Water Detail	12.61	ft
GC-AP-MW-2	8/17/2020 14:34	Oxidation Reduction Potention	15.71	mv
GC-AP-MW-2	8/17/2020 14:34	pH	5.91	pH
GC-AP-MW-2	8/17/2020 14:34	Temperature	23.99	C
GC-AP-MW-2	8/17/2020 14:34	Turbidity	2.03	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-3	8/17/2020 15:12	Conductivity	562.85	uS/cm
GC-AP-MW-3	8/17/2020 15:12	DO	1.24	mg/L
GC-AP-MW-3	8/17/2020 15:12	Depth to Water Detail	13.39	ft
GC-AP-MW-3	8/17/2020 15:12	Oxidation Reduction Potention	1.25	mv
GC-AP-MW-3	8/17/2020 15:12	pH	5.76	pH
GC-AP-MW-3	8/17/2020 15:12	Temperature	22.81	C
GC-AP-MW-3	8/17/2020 15:12	Turbidity	1.8	NTU
GC-AP-MW-3	8/17/2020 15:17	Conductivity	544.74	uS/cm
GC-AP-MW-3	8/17/2020 15:17	DO	1.01	mg/L
GC-AP-MW-3	8/17/2020 15:17	Depth to Water Detail	13.49	ft
GC-AP-MW-3	8/17/2020 15:17	Oxidation Reduction Potention	-5.04	mv
GC-AP-MW-3	8/17/2020 15:17	pH	5.78	pH
GC-AP-MW-3	8/17/2020 15:17	Temperature	22.8	C
GC-AP-MW-3	8/17/2020 15:17	Turbidity	1.66	NTU
GC-AP-MW-3	8/17/2020 15:22	Conductivity	547.2	uS/cm
GC-AP-MW-3	8/17/2020 15:22	DO	0.91	mg/L
GC-AP-MW-3	8/17/2020 15:22	Depth to Water Detail	12.51	ft
GC-AP-MW-3	8/17/2020 15:22	Oxidation Reduction Potention	-9.28	mv
GC-AP-MW-3	8/17/2020 15:22	pH	5.81	pH
GC-AP-MW-3	8/17/2020 15:22	Temperature	22.77	C
GC-AP-MW-3	8/17/2020 15:22	Turbidity	1.76	NTU
GC-AP-MW-3	8/17/2020 15:27	Conductivity	547.58	uS/cm
GC-AP-MW-3	8/17/2020 15:27	DO	0.83	mg/L
GC-AP-MW-3	8/17/2020 15:27	Depth to Water Detail	12.56	ft
GC-AP-MW-3	8/17/2020 15:27	Oxidation Reduction Potention	-12.23	mv
GC-AP-MW-3	8/17/2020 15:27	pH	5.83	pH
GC-AP-MW-3	8/17/2020 15:27	Temperature	22.65	C
GC-AP-MW-3	8/17/2020 15:27	Turbidity	1.63	NTU
GC-AP-MW-3	8/17/2020 15:32	Conductivity	549.83	uS/cm
GC-AP-MW-3	8/17/2020 15:32	DO	0.78	mg/L
GC-AP-MW-3	8/17/2020 15:32	Depth to Water Detail	12.59	ft
GC-AP-MW-3	8/17/2020 15:32	Oxidation Reduction Potention	-14.48	mv
GC-AP-MW-3	8/17/2020 15:32	pH	5.85	pH
GC-AP-MW-3	8/17/2020 15:32	Temperature	22.72	C
GC-AP-MW-3	8/17/2020 15:32	Turbidity	2.13	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-6	8/19/2020 8:32	Conductivity	986.98	uS/cm
GC-AP-MW-6	8/19/2020 8:32	DO	2.09	mg/L
GC-AP-MW-6	8/19/2020 8:32	Depth to Water Detail	12.37	ft
GC-AP-MW-6	8/19/2020 8:32	Oxidation Reduction Potention	141.22	mv
GC-AP-MW-6	8/19/2020 8:32	pH	6.18	pH
GC-AP-MW-6	8/19/2020 8:32	Temperature	20.65	C
GC-AP-MW-6	8/19/2020 8:32	Turbidity	2.19	NTU
GC-AP-MW-6	8/19/2020 8:37	Conductivity	1076.94	uS/cm
GC-AP-MW-6	8/19/2020 8:37	DO	1.32	mg/L
GC-AP-MW-6	8/19/2020 8:37	Depth to Water Detail	12.39	ft
GC-AP-MW-6	8/19/2020 8:37	Oxidation Reduction Potention	132.74	mv
GC-AP-MW-6	8/19/2020 8:37	pH	6.27	pH
GC-AP-MW-6	8/19/2020 8:37	Temperature	20.67	C
GC-AP-MW-6	8/19/2020 8:37	Turbidity	2.28	NTU
GC-AP-MW-6	8/19/2020 8:42	Conductivity	1136.13	uS/cm
GC-AP-MW-6	8/19/2020 8:42	DO	1.12	mg/L
GC-AP-MW-6	8/19/2020 8:42	Depth to Water Detail	12.4	ft
GC-AP-MW-6	8/19/2020 8:42	Oxidation Reduction Potention	101.86	mv
GC-AP-MW-6	8/19/2020 8:42	pH	6.37	pH
GC-AP-MW-6	8/19/2020 8:42	Temperature	20.65	C
GC-AP-MW-6	8/19/2020 8:42	Turbidity	1.51	NTU
GC-AP-MW-6	8/19/2020 8:47	Conductivity	1148.32	uS/cm
GC-AP-MW-6	8/19/2020 8:47	DO	0.85	mg/L
GC-AP-MW-6	8/19/2020 8:47	Depth to Water Detail	12.41	ft
GC-AP-MW-6	8/19/2020 8:47	Oxidation Reduction Potention	63.24	mv
GC-AP-MW-6	8/19/2020 8:47	pH	6.45	pH
GC-AP-MW-6	8/19/2020 8:47	Temperature	20.64	C
GC-AP-MW-6	8/19/2020 8:47	Turbidity	1.52	NTU
GC-AP-MW-6	8/19/2020 8:52	Conductivity	1155.74	uS/cm
GC-AP-MW-6	8/19/2020 8:52	DO	0.77	mg/L
GC-AP-MW-6	8/19/2020 8:52	Depth to Water Detail	12.41	ft
GC-AP-MW-6	8/19/2020 8:52	Oxidation Reduction Potention	46.2	mv
GC-AP-MW-6	8/19/2020 8:52	pH	6.47	pH
GC-AP-MW-6	8/19/2020 8:52	Temperature	20.62	C
GC-AP-MW-6	8/19/2020 8:52	Turbidity	1.63	NTU
GC-AP-MW-6	8/19/2020 8:57	Conductivity	1149.79	uS/cm
GC-AP-MW-6	8/19/2020 8:57	DO	0.72	mg/L
GC-AP-MW-6	8/19/2020 8:57	Depth to Water Detail	12.41	ft
GC-AP-MW-6	8/19/2020 8:57	Oxidation Reduction Potention	39.38	mv
GC-AP-MW-6	8/19/2020 8:57	pH	6.49	pH
GC-AP-MW-6	8/19/2020 8:57	Temperature	20.61	C
GC-AP-MW-6	8/19/2020 8:57	Turbidity	1.54	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-7	8/19/2020 11:23	Conductivity	1436.8	uS/cm
GC-AP-MW-7	8/19/2020 11:23	DO	1.41	mg/L
GC-AP-MW-7	8/19/2020 11:23	Depth to Water Detail	12.39	ft
GC-AP-MW-7	8/19/2020 11:23	Oxidation Reduction Potention	77.47	mv
GC-AP-MW-7	8/19/2020 11:23	pH	6.03	pH
GC-AP-MW-7	8/19/2020 11:23	Temperature	20.27	C
GC-AP-MW-7	8/19/2020 11:23	Turbidity	1.79	NTU
GC-AP-MW-7	8/19/2020 11:28	Conductivity	1454	uS/cm
GC-AP-MW-7	8/19/2020 11:28	DO	0.95	mg/L
GC-AP-MW-7	8/19/2020 11:28	Depth to Water Detail	12.39	ft
GC-AP-MW-7	8/19/2020 11:28	Oxidation Reduction Potention	76.52	mv
GC-AP-MW-7	8/19/2020 11:28	pH	6.05	pH
GC-AP-MW-7	8/19/2020 11:28	Temperature	20.3	C
GC-AP-MW-7	8/19/2020 11:28	Turbidity	1.64	NTU
GC-AP-MW-7	8/19/2020 11:33	Conductivity	1465.98	uS/cm
GC-AP-MW-7	8/19/2020 11:33	DO	0.81	mg/L
GC-AP-MW-7	8/19/2020 11:33	Depth to Water Detail	12.39	ft
GC-AP-MW-7	8/19/2020 11:33	Oxidation Reduction Potention	74.74	mv
GC-AP-MW-7	8/19/2020 11:33	pH	6.08	pH
GC-AP-MW-7	8/19/2020 11:33	Temperature	20.31	C
GC-AP-MW-7	8/19/2020 11:33	Turbidity	2.06	NTU
GC-AP-MW-7	8/19/2020 11:38	Conductivity	1475.44	uS/cm
GC-AP-MW-7	8/19/2020 11:38	DO	0.74	mg/L
GC-AP-MW-7	8/19/2020 11:38	Depth to Water Detail	12.39	ft
GC-AP-MW-7	8/19/2020 11:38	Oxidation Reduction Potention	73.1	mv
GC-AP-MW-7	8/19/2020 11:38	pH	6.11	pH
GC-AP-MW-7	8/19/2020 11:38	Temperature	20.3	C
GC-AP-MW-7	8/19/2020 11:38	Turbidity	1.81	NTU
GC-AP-MW-7	8/19/2020 11:43	Conductivity	1478.29	uS/cm
GC-AP-MW-7	8/19/2020 11:43	DO	0.71	mg/L
GC-AP-MW-7	8/19/2020 11:43	Depth to Water Detail	12.39	ft
GC-AP-MW-7	8/19/2020 11:43	Oxidation Reduction Potention	72.2	mv
GC-AP-MW-7	8/19/2020 11:43	pH	6.14	pH
GC-AP-MW-7	8/19/2020 11:43	Temperature	20.28	C
GC-AP-MW-7	8/19/2020 11:43	Turbidity	1.78	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-8	8/19/2020 10:23	Conductivity	919.57	uS/cm
GC-AP-MW-8	8/19/2020 10:23	DO	1.39	mg/L
GC-AP-MW-8	8/19/2020 10:23	Depth to Water Detail	12.24	ft
GC-AP-MW-8	8/19/2020 10:23	Oxidation Reduction Potention	72.23	mv
GC-AP-MW-8	8/19/2020 10:23	pH	5.93	pH
GC-AP-MW-8	8/19/2020 10:23	Temperature	20.22	C
GC-AP-MW-8	8/19/2020 10:23	Turbidity	2.25	NTU
GC-AP-MW-8	8/19/2020 10:28	Conductivity	930.67	uS/cm
GC-AP-MW-8	8/19/2020 10:28	DO	0.87	mg/L
GC-AP-MW-8	8/19/2020 10:28	Depth to Water Detail	12.24	ft
GC-AP-MW-8	8/19/2020 10:28	Oxidation Reduction Potention	69.2	mv
GC-AP-MW-8	8/19/2020 10:28	pH	5.94	pH
GC-AP-MW-8	8/19/2020 10:28	Temperature	20.22	C
GC-AP-MW-8	8/19/2020 10:28	Turbidity	2.14	NTU
GC-AP-MW-8	8/19/2020 10:33	Conductivity	969.36	uS/cm
GC-AP-MW-8	8/19/2020 10:33	DO	0.72	mg/L
GC-AP-MW-8	8/19/2020 10:33	Depth to Water Detail	12.24	ft
GC-AP-MW-8	8/19/2020 10:33	Oxidation Reduction Potention	67.53	mv
GC-AP-MW-8	8/19/2020 10:33	pH	5.97	pH
GC-AP-MW-8	8/19/2020 10:33	Temperature	20.24	C
GC-AP-MW-8	8/19/2020 10:33	Turbidity	2.32	NTU
GC-AP-MW-8	8/19/2020 10:38	Conductivity	1008.35	uS/cm
GC-AP-MW-8	8/19/2020 10:38	DO	0.64	mg/L
GC-AP-MW-8	8/19/2020 10:38	Depth to Water Detail	12.24	ft
GC-AP-MW-8	8/19/2020 10:38	Oxidation Reduction Potention	62.01	mv
GC-AP-MW-8	8/19/2020 10:38	pH	5.99	pH
GC-AP-MW-8	8/19/2020 10:38	Temperature	20.25	C
GC-AP-MW-8	8/19/2020 10:38	Turbidity	2.01	NTU
GC-AP-MW-8	8/19/2020 10:43	Conductivity	1016.92	uS/cm
GC-AP-MW-8	8/19/2020 10:43	DO	0.6	mg/L
GC-AP-MW-8	8/19/2020 10:43	Depth to Water Detail	12.24	ft
GC-AP-MW-8	8/19/2020 10:43	Oxidation Reduction Potention	56.95	mv
GC-AP-MW-8	8/19/2020 10:43	pH	6.03	pH
GC-AP-MW-8	8/19/2020 10:43	Temperature	20.25	C
GC-AP-MW-8	8/19/2020 10:43	Turbidity	1.96	NTU
GC-AP-MW-8	8/19/2020 10:48	Conductivity	1021.5	uS/cm
GC-AP-MW-8	8/19/2020 10:48	DO	0.57	mg/L
GC-AP-MW-8	8/19/2020 10:48	Depth to Water Detail	12.24	ft
GC-AP-MW-8	8/19/2020 10:48	Oxidation Reduction Potention	54.42	mv
GC-AP-MW-8	8/19/2020 10:48	pH	6.06	pH
GC-AP-MW-8	8/19/2020 10:48	Temperature	20.25	C
GC-AP-MW-8	8/19/2020 10:48	Turbidity	2.03	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-9	8/18/2020 14:13	Conductivity	758.67	uS/cm
GC-AP-MW-9	8/18/2020 14:13	DO	0.95	mg/L
GC-AP-MW-9	8/18/2020 14:13	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:13	Oxidation Reduction Potention	1.6	mv
GC-AP-MW-9	8/18/2020 14:13	pH	6.03	pH
GC-AP-MW-9	8/18/2020 14:13	Temperature	20.52	C
GC-AP-MW-9	8/18/2020 14:13	Turbidity	2.36	NTU
GC-AP-MW-9	8/18/2020 14:18	Conductivity	746.54	uS/cm
GC-AP-MW-9	8/18/2020 14:18	DO	0.64	mg/L
GC-AP-MW-9	8/18/2020 14:18	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:18	Oxidation Reduction Potention	-4.1	mv
GC-AP-MW-9	8/18/2020 14:18	pH	6.12	pH
GC-AP-MW-9	8/18/2020 14:18	Temperature	20.42	C
GC-AP-MW-9	8/18/2020 14:18	Turbidity	2.72	NTU
GC-AP-MW-9	8/18/2020 14:23	Conductivity	741.66	uS/cm
GC-AP-MW-9	8/18/2020 14:23	DO	0.53	mg/L
GC-AP-MW-9	8/18/2020 14:23	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:23	Oxidation Reduction Potention	-5.35	mv
GC-AP-MW-9	8/18/2020 14:23	pH	6.12	pH
GC-AP-MW-9	8/18/2020 14:23	Temperature	20.37	C
GC-AP-MW-9	8/18/2020 14:23	Turbidity	2.26	NTU
GC-AP-MW-9	8/18/2020 14:28	Conductivity	730.2	uS/cm
GC-AP-MW-9	8/18/2020 14:28	DO	0.47	mg/L
GC-AP-MW-9	8/18/2020 14:28	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:28	Oxidation Reduction Potention	-5.93	mv
GC-AP-MW-9	8/18/2020 14:28	pH	6.11	pH
GC-AP-MW-9	8/18/2020 14:28	Temperature	20.4	C
GC-AP-MW-9	8/18/2020 14:28	Turbidity	2.21	NTU
GC-AP-MW-9	8/18/2020 14:33	Conductivity	801.06	uS/cm
GC-AP-MW-9	8/18/2020 14:33	DO	0.44	mg/L
GC-AP-MW-9	8/18/2020 14:33	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:33	Oxidation Reduction Potention	-6.12	mv
GC-AP-MW-9	8/18/2020 14:33	pH	6.11	pH
GC-AP-MW-9	8/18/2020 14:33	Temperature	20.28	C
GC-AP-MW-9	8/18/2020 14:33	Turbidity	1.97	NTU
GC-AP-MW-9	8/18/2020 14:38	Conductivity	792.37	uS/cm
GC-AP-MW-9	8/18/2020 14:38	DO	0.41	mg/L
GC-AP-MW-9	8/18/2020 14:38	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:38	Oxidation Reduction Potention	-6.52	mv
GC-AP-MW-9	8/18/2020 14:38	pH	6.11	pH
GC-AP-MW-9	8/18/2020 14:38	Temperature	20.27	C
GC-AP-MW-9	8/18/2020 14:38	Turbidity	1.61	NTU
GC-AP-MW-9	8/18/2020 14:43	Conductivity	829.17	uS/cm
GC-AP-MW-9	8/18/2020 14:43	DO	0.68	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-9	8/18/2020 14:43	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:43	Oxidation Reduction Potention	-7.51	mv
GC-AP-MW-9	8/18/2020 14:43	pH	6.12	pH
GC-AP-MW-9	8/18/2020 14:43	Temperature	20.29	C
GC-AP-MW-9	8/18/2020 14:43	Turbidity	1.73	NTU
GC-AP-MW-9	8/18/2020 14:48	Conductivity	820.87	uS/cm
GC-AP-MW-9	8/18/2020 14:48	DO	1.05	mg/L
GC-AP-MW-9	8/18/2020 14:48	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:48	Oxidation Reduction Potention	-7.89	mv
GC-AP-MW-9	8/18/2020 14:48	pH	6.13	pH
GC-AP-MW-9	8/18/2020 14:48	Temperature	20.3	C
GC-AP-MW-9	8/18/2020 14:48	Turbidity	1.63	NTU
GC-AP-MW-9	8/18/2020 14:53	Conductivity	816.3	uS/cm
GC-AP-MW-9	8/18/2020 14:53	DO	0.95	mg/L
GC-AP-MW-9	8/18/2020 14:53	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:53	Oxidation Reduction Potention	-8.76	mv
GC-AP-MW-9	8/18/2020 14:53	pH	6.14	pH
GC-AP-MW-9	8/18/2020 14:53	Temperature	20.25	C
GC-AP-MW-9	8/18/2020 14:53	Turbidity	1.78	NTU
GC-AP-MW-9	8/18/2020 14:58	Conductivity	813.54	uS/cm
GC-AP-MW-9	8/18/2020 14:58	DO	0.82	mg/L
GC-AP-MW-9	8/18/2020 14:58	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 14:58	Oxidation Reduction Potention	-9.8	mv
GC-AP-MW-9	8/18/2020 14:58	pH	6.15	pH
GC-AP-MW-9	8/18/2020 14:58	Temperature	20.24	C
GC-AP-MW-9	8/18/2020 14:58	Turbidity	1.41	NTU
GC-AP-MW-9	8/18/2020 15:03	Conductivity	806.95	uS/cm
GC-AP-MW-9	8/18/2020 15:03	DO	0.76	mg/L
GC-AP-MW-9	8/18/2020 15:03	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 15:03	Oxidation Reduction Potention	-11.61	mv
GC-AP-MW-9	8/18/2020 15:03	pH	6.18	pH
GC-AP-MW-9	8/18/2020 15:03	Temperature	20.3	C
GC-AP-MW-9	8/18/2020 15:03	Turbidity	1.46	NTU
GC-AP-MW-9	8/18/2020 15:08	Conductivity	797.89	uS/cm
GC-AP-MW-9	8/18/2020 15:08	DO	0.71	mg/L
GC-AP-MW-9	8/18/2020 15:08	Depth to Water Detail	9.85	ft
GC-AP-MW-9	8/18/2020 15:08	Oxidation Reduction Potention	-13.53	mv
GC-AP-MW-9	8/18/2020 15:08	pH	6.21	pH
GC-AP-MW-9	8/18/2020 15:08	Temperature	20.29	C
GC-AP-MW-9	8/18/2020 15:08	Turbidity	1.68	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-10	8/18/2020 11:17	Conductivity	578.25	uS/cm
GC-AP-MW-10	8/18/2020 11:17	DO	1.21	mg/L
GC-AP-MW-10	8/18/2020 11:17	Depth to Water Detail	7.81	ft
GC-AP-MW-10	8/18/2020 11:17	Oxidation Reduction Potention	4.31	mv
GC-AP-MW-10	8/18/2020 11:17	pH	6.07	pH
GC-AP-MW-10	8/18/2020 11:17	Temperature	20.33	C
GC-AP-MW-10	8/18/2020 11:17	Turbidity	1.76	NTU
GC-AP-MW-10	8/18/2020 11:22	Conductivity	585.4	uS/cm
GC-AP-MW-10	8/18/2020 11:22	DO	0.8	mg/L
GC-AP-MW-10	8/18/2020 11:22	Depth to Water Detail	7.87	ft
GC-AP-MW-10	8/18/2020 11:22	Oxidation Reduction Potention	-7.09	mv
GC-AP-MW-10	8/18/2020 11:22	pH	6.13	pH
GC-AP-MW-10	8/18/2020 11:22	Temperature	20.3	C
GC-AP-MW-10	8/18/2020 11:22	Turbidity	2.08	NTU
GC-AP-MW-10	8/18/2020 11:27	Conductivity	586.35	uS/cm
GC-AP-MW-10	8/18/2020 11:27	DO	0.65	mg/L
GC-AP-MW-10	8/18/2020 11:27	Depth to Water Detail	7.87	ft
GC-AP-MW-10	8/18/2020 11:27	Oxidation Reduction Potention	-14.67	mv
GC-AP-MW-10	8/18/2020 11:27	pH	6.2	pH
GC-AP-MW-10	8/18/2020 11:27	Temperature	20.3	C
GC-AP-MW-10	8/18/2020 11:27	Turbidity	1.72	NTU
GC-AP-MW-10	8/18/2020 11:32	Conductivity	596.49	uS/cm
GC-AP-MW-10	8/18/2020 11:32	DO	0.57	mg/L
GC-AP-MW-10	8/18/2020 11:32	Depth to Water Detail	7.87	ft
GC-AP-MW-10	8/18/2020 11:32	Oxidation Reduction Potention	-22.24	mv
GC-AP-MW-10	8/18/2020 11:32	pH	6.29	pH
GC-AP-MW-10	8/18/2020 11:32	Temperature	20.31	C
GC-AP-MW-10	8/18/2020 11:32	Turbidity	1.68	NTU
GC-AP-MW-10	8/18/2020 11:37	Conductivity	600.27	uS/cm
GC-AP-MW-10	8/18/2020 11:37	DO	0.53	mg/L
GC-AP-MW-10	8/18/2020 11:37	Depth to Water Detail	7.87	ft
GC-AP-MW-10	8/18/2020 11:37	Oxidation Reduction Potention	-26.87	mv
GC-AP-MW-10	8/18/2020 11:37	pH	6.33	pH
GC-AP-MW-10	8/18/2020 11:37	Temperature	20.33	C
GC-AP-MW-10	8/18/2020 11:37	Turbidity	1.75	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-11	8/18/2020 10:18	Conductivity	378.95	uS/cm
GC-AP-MW-11	8/18/2020 10:18	DO	1.45	mg/L
GC-AP-MW-11	8/18/2020 10:18	Depth to Water Detail	19.5	ft
GC-AP-MW-11	8/18/2020 10:18	Oxidation Reduction Potention	65.01	mv
GC-AP-MW-11	8/18/2020 10:18	pH	5.88	pH
GC-AP-MW-11	8/18/2020 10:18	Temperature	21.17	C
GC-AP-MW-11	8/18/2020 10:18	Turbidity	1.68	NTU
GC-AP-MW-11	8/18/2020 10:23	Conductivity	379.84	uS/cm
GC-AP-MW-11	8/18/2020 10:23	DO	1.11	mg/L
GC-AP-MW-11	8/18/2020 10:23	Depth to Water Detail	19.5	ft
GC-AP-MW-11	8/18/2020 10:23	Oxidation Reduction Potention	60.5	mv
GC-AP-MW-11	8/18/2020 10:23	pH	5.88	pH
GC-AP-MW-11	8/18/2020 10:23	Temperature	21.21	C
GC-AP-MW-11	8/18/2020 10:23	Turbidity	1.71	NTU
GC-AP-MW-11	8/18/2020 10:28	Conductivity	376.89	uS/cm
GC-AP-MW-11	8/18/2020 10:28	DO	0.98	mg/L
GC-AP-MW-11	8/18/2020 10:28	Depth to Water Detail	19.5	ft
GC-AP-MW-11	8/18/2020 10:28	Oxidation Reduction Potention	55.82	mv
GC-AP-MW-11	8/18/2020 10:28	pH	5.91	pH
GC-AP-MW-11	8/18/2020 10:28	Temperature	21.17	C
GC-AP-MW-11	8/18/2020 10:28	Turbidity	1.48	NTU
GC-AP-MW-11	8/18/2020 10:33	Conductivity	374.27	uS/cm
GC-AP-MW-11	8/18/2020 10:33	DO	0.9	mg/L
GC-AP-MW-11	8/18/2020 10:33	Depth to Water Detail	19.5	ft
GC-AP-MW-11	8/18/2020 10:33	Oxidation Reduction Potention	51.46	mv
GC-AP-MW-11	8/18/2020 10:33	pH	5.95	pH
GC-AP-MW-11	8/18/2020 10:33	Temperature	21.18	C
GC-AP-MW-11	8/18/2020 10:33	Turbidity	1.62	NTU
GC-AP-MW-11	8/18/2020 10:38	Conductivity	374.7	uS/cm
GC-AP-MW-11	8/18/2020 10:38	DO	0.85	mg/L
GC-AP-MW-11	8/18/2020 10:38	Depth to Water Detail	19.5	ft
GC-AP-MW-11	8/18/2020 10:38	Oxidation Reduction Potention	46.48	mv
GC-AP-MW-11	8/18/2020 10:38	pH	6	pH
GC-AP-MW-11	8/18/2020 10:38	Temperature	21.17	C
GC-AP-MW-11	8/18/2020 10:38	Turbidity	1.72	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-12	8/18/2020 8:06	Conductivity	417.69	uS/cm
GC-AP-MW-12	8/18/2020 8:06	DO	2.05	mg/L
GC-AP-MW-12	8/18/2020 8:06	Depth to Water Detail	23.1	ft
GC-AP-MW-12	8/18/2020 8:06	Oxidation Reduction Potention	113.89	mv
GC-AP-MW-12	8/18/2020 8:06	pH	7	pH
GC-AP-MW-12	8/18/2020 8:06	Temperature	20.26	C
GC-AP-MW-12	8/18/2020 8:06	Turbidity	1.83	NTU
GC-AP-MW-12	8/18/2020 8:11	Conductivity	402.93	uS/cm
GC-AP-MW-12	8/18/2020 8:11	DO	1.42	mg/L
GC-AP-MW-12	8/18/2020 8:11	Depth to Water Detail	23.1	ft
GC-AP-MW-12	8/18/2020 8:11	Oxidation Reduction Potention	116.46	mv
GC-AP-MW-12	8/18/2020 8:11	pH	6.99	pH
GC-AP-MW-12	8/18/2020 8:11	Temperature	20.31	C
GC-AP-MW-12	8/18/2020 8:11	Turbidity	1.97	NTU
GC-AP-MW-12	8/18/2020 8:16	Conductivity	391.27	uS/cm
GC-AP-MW-12	8/18/2020 8:16	DO	1.21	mg/L
GC-AP-MW-12	8/18/2020 8:16	Depth to Water Detail	23.1	ft
GC-AP-MW-12	8/18/2020 8:16	Oxidation Reduction Potention	117.13	mv
GC-AP-MW-12	8/18/2020 8:16	pH	6.99	pH
GC-AP-MW-12	8/18/2020 8:16	Temperature	20.34	C
GC-AP-MW-12	8/18/2020 8:16	Turbidity	1.81	NTU
GC-AP-MW-12	8/18/2020 8:21	Conductivity	376.75	uS/cm
GC-AP-MW-12	8/18/2020 8:21	DO	1.11	mg/L
GC-AP-MW-12	8/18/2020 8:21	Depth to Water Detail	23.1	ft
GC-AP-MW-12	8/18/2020 8:21	Oxidation Reduction Potention	116.29	mv
GC-AP-MW-12	8/18/2020 8:21	pH	6.99	pH
GC-AP-MW-12	8/18/2020 8:21	Temperature	20.38	C
GC-AP-MW-12	8/18/2020 8:21	Turbidity	1.69	NTU
GC-AP-MW-12	8/18/2020 8:26	Conductivity	370.59	uS/cm
GC-AP-MW-12	8/18/2020 8:26	DO	1.04	mg/L
GC-AP-MW-12	8/18/2020 8:26	Depth to Water Detail	23.1	ft
GC-AP-MW-12	8/18/2020 8:26	Oxidation Reduction Potention	115.55	mv
GC-AP-MW-12	8/18/2020 8:26	pH	6.99	pH
GC-AP-MW-12	8/18/2020 8:26	Temperature	20.41	C
GC-AP-MW-12	8/18/2020 8:26	Turbidity	1.66	NTU
GC-AP-MW-12	8/18/2020 8:31	Conductivity	364.75	uS/cm
GC-AP-MW-12	8/18/2020 8:31	DO	1	mg/L
GC-AP-MW-12	8/18/2020 8:31	Depth to Water Detail	23.1	ft
GC-AP-MW-12	8/18/2020 8:31	Oxidation Reduction Potention	114.44	mv
GC-AP-MW-12	8/18/2020 8:31	pH	6.98	pH
GC-AP-MW-12	8/18/2020 8:31	Temperature	20.41	C
GC-AP-MW-12	8/18/2020 8:31	Turbidity	1.63	NTU
GC-AP-MW-12	8/18/2020 8:36	Conductivity	361.36	uS/cm
GC-AP-MW-12	8/18/2020 8:36	DO	0.98	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-12	8/18/2020 8:36	Depth to Water Detail	23.1	ft
GC-AP-MW-12	8/18/2020 8:36	Oxidation Reduction Potention	113.44	mv
GC-AP-MW-12	8/18/2020 8:36	pH	6.98	pH
GC-AP-MW-12	8/18/2020 8:36	Temperature	20.44	C
GC-AP-MW-12	8/18/2020 8:36	Turbidity	1.68	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-21	8/18/2020 9:21	Conductivity	279.08	uS/cm
GC-AP-MW-21	8/18/2020 9:21	DO	0.61	mg/L
GC-AP-MW-21	8/18/2020 9:21	Depth to Water Detail	24.85	ft
GC-AP-MW-21	8/18/2020 9:21	Oxidation Reduction Potention	136.15	mv
GC-AP-MW-21	8/18/2020 9:21	pH	6.23	pH
GC-AP-MW-21	8/18/2020 9:21	Temperature	21.92	C
GC-AP-MW-21	8/18/2020 9:21	Turbidity	1.82	NTU
GC-AP-MW-21	8/18/2020 9:26	Conductivity	280.85	uS/cm
GC-AP-MW-21	8/18/2020 9:26	DO	0.41	mg/L
GC-AP-MW-21	8/18/2020 9:26	Depth to Water Detail	24.85	ft
GC-AP-MW-21	8/18/2020 9:26	Oxidation Reduction Potention	130.19	mv
GC-AP-MW-21	8/18/2020 9:26	pH	6.24	pH
GC-AP-MW-21	8/18/2020 9:26	Temperature	21.93	C
GC-AP-MW-21	8/18/2020 9:26	Turbidity	1.67	NTU
GC-AP-MW-21	8/18/2020 9:31	Conductivity	280.36	uS/cm
GC-AP-MW-21	8/18/2020 9:31	DO	0.34	mg/L
GC-AP-MW-21	8/18/2020 9:31	Depth to Water Detail	24.85	ft
GC-AP-MW-21	8/18/2020 9:31	Oxidation Reduction Potention	119.9	mv
GC-AP-MW-21	8/18/2020 9:31	pH	6.27	pH
GC-AP-MW-21	8/18/2020 9:31	Temperature	21.93	C
GC-AP-MW-21	8/18/2020 9:31	Turbidity	1.59	NTU
GC-AP-MW-21	8/18/2020 9:36	Conductivity	279.83	uS/cm
GC-AP-MW-21	8/18/2020 9:36	DO	0.3	mg/L
GC-AP-MW-21	8/18/2020 9:36	Depth to Water Detail	24.85	ft
GC-AP-MW-21	8/18/2020 9:36	Oxidation Reduction Potention	109.63	mv
GC-AP-MW-21	8/18/2020 9:36	pH	6.31	pH
GC-AP-MW-21	8/18/2020 9:36	Temperature	21.94	C
GC-AP-MW-21	8/18/2020 9:36	Turbidity	1.72	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-41H	8/18/2020 13:13	Conductivity	505.6	uS/cm
GC-AP-MW-41H	8/18/2020 13:13	DO	0.58	mg/L
GC-AP-MW-41H	8/18/2020 13:13	Depth to Water Detail	12.59	ft
GC-AP-MW-41H	8/18/2020 13:13	Oxidation Reduction Potention	18.4	mv
GC-AP-MW-41H	8/18/2020 13:13	pH	5.89	pH
GC-AP-MW-41H	8/18/2020 13:13	Temperature	20.82	C
GC-AP-MW-41H	8/18/2020 13:13	Turbidity	4.19	NTU
GC-AP-MW-41H	8/18/2020 13:18	Conductivity	489.52	uS/cm
GC-AP-MW-41H	8/18/2020 13:18	DO	0.32	mg/L
GC-AP-MW-41H	8/18/2020 13:18	Depth to Water Detail	12.59	ft
GC-AP-MW-41H	8/18/2020 13:18	Oxidation Reduction Potention	16.04	mv
GC-AP-MW-41H	8/18/2020 13:18	pH	5.92	pH
GC-AP-MW-41H	8/18/2020 13:18	Temperature	20.81	C
GC-AP-MW-41H	8/18/2020 13:18	Turbidity	2.98	NTU
GC-AP-MW-41H	8/18/2020 13:23	Conductivity	484.39	uS/cm
GC-AP-MW-41H	8/18/2020 13:23	DO	0.25	mg/L
GC-AP-MW-41H	8/18/2020 13:23	Depth to Water Detail	12.59	ft
GC-AP-MW-41H	8/18/2020 13:23	Oxidation Reduction Potention	13.76	mv
GC-AP-MW-41H	8/18/2020 13:23	pH	5.92	pH
GC-AP-MW-41H	8/18/2020 13:23	Temperature	20.88	C
GC-AP-MW-41H	8/18/2020 13:23	Turbidity	2.24	NTU
GC-AP-MW-41H	8/18/2020 13:28	Conductivity	480.06	uS/cm
GC-AP-MW-41H	8/18/2020 13:28	DO	0.22	mg/L
GC-AP-MW-41H	8/18/2020 13:28	Depth to Water Detail	12.59	ft
GC-AP-MW-41H	8/18/2020 13:28	Oxidation Reduction Potention	12	mv
GC-AP-MW-41H	8/18/2020 13:28	pH	5.93	pH
GC-AP-MW-41H	8/18/2020 13:28	Temperature	20.87	C
GC-AP-MW-41H	8/18/2020 13:28	Turbidity	1.91	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-43H	8/19/2020 12:57	Conductivity	826.26	uS/cm
GC-AP-MW-43H	8/19/2020 12:57	DO	0.82	mg/L
GC-AP-MW-43H	8/19/2020 12:57	Depth to Water Detail	8.63	ft
GC-AP-MW-43H	8/19/2020 12:57	Oxidation Reduction Potention	-2.78	mv
GC-AP-MW-43H	8/19/2020 12:57	pH	6.06	pH
GC-AP-MW-43H	8/19/2020 12:57	Temperature	20.49	C
GC-AP-MW-43H	8/19/2020 12:57	Turbidity	8.94	NTU
GC-AP-MW-43H	8/19/2020 13:02	Conductivity	825.22	uS/cm
GC-AP-MW-43H	8/19/2020 13:02	DO	0.62	mg/L
GC-AP-MW-43H	8/19/2020 13:02	Depth to Water Detail	8.63	ft
GC-AP-MW-43H	8/19/2020 13:02	Oxidation Reduction Potention	-12.61	mv
GC-AP-MW-43H	8/19/2020 13:02	pH	6.15	pH
GC-AP-MW-43H	8/19/2020 13:02	Temperature	20.35	C
GC-AP-MW-43H	8/19/2020 13:02	Turbidity	5.23	NTU
GC-AP-MW-43H	8/19/2020 13:07	Conductivity	822.3	uS/cm
GC-AP-MW-43H	8/19/2020 13:07	DO	0.54	mg/L
GC-AP-MW-43H	8/19/2020 13:07	Depth to Water Detail	8.63	ft
GC-AP-MW-43H	8/19/2020 13:07	Oxidation Reduction Potention	-16.04	mv
GC-AP-MW-43H	8/19/2020 13:07	pH	6.18	pH
GC-AP-MW-43H	8/19/2020 13:07	Temperature	20.31	C
GC-AP-MW-43H	8/19/2020 13:07	Turbidity	4.23	NTU
GC-AP-MW-43H	8/19/2020 13:12	Conductivity	812.67	uS/cm
GC-AP-MW-43H	8/19/2020 13:12	DO	0.51	mg/L
GC-AP-MW-43H	8/19/2020 13:12	Depth to Water Detail	8.63	ft
GC-AP-MW-43H	8/19/2020 13:12	Oxidation Reduction Potention	-17.55	mv
GC-AP-MW-43H	8/19/2020 13:12	pH	6.18	pH
GC-AP-MW-43H	8/19/2020 13:12	Temperature	20.33	C
GC-AP-MW-43H	8/19/2020 13:12	Turbidity	3.28	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	8/17/2020 11:33	Conductivity	541.04	uS/cm
GC-AP-PZ-4	8/17/2020 11:33	DO	1.33	mg/L
GC-AP-PZ-4	8/17/2020 11:33	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 11:33	Oxidation Reduction Potention	118.03	mv
GC-AP-PZ-4	8/17/2020 11:33	pH	5.29	pH
GC-AP-PZ-4	8/17/2020 11:33	Temperature	23.15	C
GC-AP-PZ-4	8/17/2020 11:33	Turbidity	2.85	NTU
GC-AP-PZ-4	8/17/2020 11:38	Conductivity	651.39	uS/cm
GC-AP-PZ-4	8/17/2020 11:38	DO	0.97	mg/L
GC-AP-PZ-4	8/17/2020 11:38	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 11:38	Oxidation Reduction Potention	82.86	mv
GC-AP-PZ-4	8/17/2020 11:38	pH	5.56	pH
GC-AP-PZ-4	8/17/2020 11:38	Temperature	23.36	C
GC-AP-PZ-4	8/17/2020 11:38	Turbidity	2.37	NTU
GC-AP-PZ-4	8/17/2020 11:43	Conductivity	758.26	uS/cm
GC-AP-PZ-4	8/17/2020 11:43	DO	0.77	mg/L
GC-AP-PZ-4	8/17/2020 11:43	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 11:43	Oxidation Reduction Potention	69.05	mv
GC-AP-PZ-4	8/17/2020 11:43	pH	5.66	pH
GC-AP-PZ-4	8/17/2020 11:43	Temperature	23.19	C
GC-AP-PZ-4	8/17/2020 11:43	Turbidity	2.32	NTU
GC-AP-PZ-4	8/17/2020 11:48	Conductivity	821.06	uS/cm
GC-AP-PZ-4	8/17/2020 11:48	DO	0.63	mg/L
GC-AP-PZ-4	8/17/2020 11:48	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 11:48	Oxidation Reduction Potention	58.16	mv
GC-AP-PZ-4	8/17/2020 11:48	pH	5.75	pH
GC-AP-PZ-4	8/17/2020 11:48	Temperature	23.3	C
GC-AP-PZ-4	8/17/2020 11:48	Turbidity	2.28	NTU
GC-AP-PZ-4	8/17/2020 11:53	Conductivity	875.42	uS/cm
GC-AP-PZ-4	8/17/2020 11:53	DO	0.53	mg/L
GC-AP-PZ-4	8/17/2020 11:53	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 11:53	Oxidation Reduction Potention	50.44	mv
GC-AP-PZ-4	8/17/2020 11:53	pH	5.78	pH
GC-AP-PZ-4	8/17/2020 11:53	Temperature	23.16	C
GC-AP-PZ-4	8/17/2020 11:53	Turbidity	2.07	NTU
GC-AP-PZ-4	8/17/2020 11:58	Conductivity	918.21	uS/cm
GC-AP-PZ-4	8/17/2020 11:58	DO	0.43	mg/L
GC-AP-PZ-4	8/17/2020 11:58	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 11:58	Oxidation Reduction Potention	43.44	mv
GC-AP-PZ-4	8/17/2020 11:58	pH	5.83	pH
GC-AP-PZ-4	8/17/2020 11:58	Temperature	23.09	C
GC-AP-PZ-4	8/17/2020 11:58	Turbidity	2.05	NTU
GC-AP-PZ-4	8/17/2020 12:03	Conductivity	959.42	uS/cm
GC-AP-PZ-4	8/17/2020 12:03	DO	0.37	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-PZ-4	8/17/2020 12:03	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 12:03	Oxidation Reduction Potention	36.81	mv
GC-AP-PZ-4	8/17/2020 12:03	pH	5.86	pH
GC-AP-PZ-4	8/17/2020 12:03	Temperature	23.17	C
GC-AP-PZ-4	8/17/2020 12:03	Turbidity	1.92	NTU
GC-AP-PZ-4	8/17/2020 12:08	Conductivity	991.07	uS/cm
GC-AP-PZ-4	8/17/2020 12:08	DO	0.33	mg/L
GC-AP-PZ-4	8/17/2020 12:08	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 12:08	Oxidation Reduction Potention	32.35	mv
GC-AP-PZ-4	8/17/2020 12:08	pH	5.88	pH
GC-AP-PZ-4	8/17/2020 12:08	Temperature	23.01	C
GC-AP-PZ-4	8/17/2020 12:08	Turbidity	1.94	NTU
GC-AP-PZ-4	8/17/2020 12:13	Conductivity	1008.03	uS/cm
GC-AP-PZ-4	8/17/2020 12:13	DO	0.31	mg/L
GC-AP-PZ-4	8/17/2020 12:13	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 12:13	Oxidation Reduction Potention	27.17	mv
GC-AP-PZ-4	8/17/2020 12:13	pH	5.92	pH
GC-AP-PZ-4	8/17/2020 12:13	Temperature	23	C
GC-AP-PZ-4	8/17/2020 12:13	Turbidity	1.93	NTU
GC-AP-PZ-4	8/17/2020 12:18	Conductivity	1025.27	uS/cm
GC-AP-PZ-4	8/17/2020 12:18	DO	0.28	mg/L
GC-AP-PZ-4	8/17/2020 12:18	Depth to Water Detail	12.03	ft
GC-AP-PZ-4	8/17/2020 12:18	Oxidation Reduction Potention	23.23	mv
GC-AP-PZ-4	8/17/2020 12:18	pH	5.94	pH
GC-AP-PZ-4	8/17/2020 12:18	Temperature	22.86	C
GC-AP-PZ-4	8/17/2020 12:18	Turbidity	1.97	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-13	8/18/2020 8:33	Conductivity	660.61	uS/cm
GC-AP-MW-13	8/18/2020 8:33	DO	1.69	mg/L
GC-AP-MW-13	8/18/2020 8:33	Depth to Water Detail	24.58	ft
GC-AP-MW-13	8/18/2020 8:33	Oxidation Reduction Potention	120.91	mv
GC-AP-MW-13	8/18/2020 8:33	pH	6.76	pH
GC-AP-MW-13	8/18/2020 8:33	Temperature	22.89	C
GC-AP-MW-13	8/18/2020 8:33	Turbidity	3.19	NTU
GC-AP-MW-13	8/18/2020 8:38	Conductivity	657.48	uS/cm
GC-AP-MW-13	8/18/2020 8:38	DO	1.62	mg/L
GC-AP-MW-13	8/18/2020 8:38	Depth to Water Detail	24.58	ft
GC-AP-MW-13	8/18/2020 8:38	Oxidation Reduction Potention	122.11	mv
GC-AP-MW-13	8/18/2020 8:38	pH	6.75	pH
GC-AP-MW-13	8/18/2020 8:38	Temperature	22.96	C
GC-AP-MW-13	8/18/2020 8:38	Turbidity	2.63	NTU
GC-AP-MW-13	8/18/2020 8:43	Conductivity	657.32	uS/cm
GC-AP-MW-13	8/18/2020 8:43	DO	1.55	mg/L
GC-AP-MW-13	8/18/2020 8:43	Depth to Water Detail	24.58	ft
GC-AP-MW-13	8/18/2020 8:43	Oxidation Reduction Potention	133.95	mv
GC-AP-MW-13	8/18/2020 8:43	pH	6.75	pH
GC-AP-MW-13	8/18/2020 8:43	Temperature	22.96	C
GC-AP-MW-13	8/18/2020 8:43	Turbidity	2.66	NTU
GC-AP-MW-13	8/18/2020 8:48	Conductivity	654.1	uS/cm
GC-AP-MW-13	8/18/2020 8:48	DO	1.39	mg/L
GC-AP-MW-13	8/18/2020 8:48	Depth to Water Detail	24.58	ft
GC-AP-MW-13	8/18/2020 8:48	Oxidation Reduction Potention	126.18	mv
GC-AP-MW-13	8/18/2020 8:48	pH	6.75	pH
GC-AP-MW-13	8/18/2020 8:48	Temperature	22.93	C
GC-AP-MW-13	8/18/2020 8:48	Turbidity	2.11	NTU
GC-AP-MW-13	8/18/2020 8:53	Conductivity	654.19	uS/cm
GC-AP-MW-13	8/18/2020 8:53	DO	1.41	mg/L
GC-AP-MW-13	8/18/2020 8:53	Depth to Water Detail	24.58	ft
GC-AP-MW-13	8/18/2020 8:53	Oxidation Reduction Potention	123.27	mv
GC-AP-MW-13	8/18/2020 8:53	pH	6.75	pH
GC-AP-MW-13	8/18/2020 8:53	Temperature	22.95	C
GC-AP-MW-13	8/18/2020 8:53	Turbidity	1.46	NTU
GC-AP-MW-13	8/18/2020 8:58	Conductivity	653.79	uS/cm
GC-AP-MW-13	8/18/2020 8:58	DO	1.38	mg/L
GC-AP-MW-13	8/18/2020 8:58	Depth to Water Detail	24.58	ft
GC-AP-MW-13	8/18/2020 8:58	Oxidation Reduction Potention	121.52	mv
GC-AP-MW-13	8/18/2020 8:58	pH	6.76	pH
GC-AP-MW-13	8/18/2020 8:58	Temperature	22.96	C
GC-AP-MW-13	8/18/2020 8:58	Turbidity	1.23	NTU

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-35H	8/18/2020 10:32	Conductivity	148.36	uS/cm
GC-AP-MW-35H	8/18/2020 10:32	DO	7.5	mg/L
GC-AP-MW-35H	8/18/2020 10:32	Depth to Water Detail	22	ft
GC-AP-MW-35H	8/18/2020 10:32	Oxidation Reduction Potention	101.97	mv
GC-AP-MW-35H	8/18/2020 10:32	pH	6.12	pH
GC-AP-MW-35H	8/18/2020 10:32	Temperature	21.93	C
GC-AP-MW-35H	8/18/2020 10:32	Turbidity	1.55	NTU
GC-AP-MW-35H	8/18/2020 10:37	Conductivity	148.14	uS/cm
GC-AP-MW-35H	8/18/2020 10:37	DO	7.49	mg/L
GC-AP-MW-35H	8/18/2020 10:37	Depth to Water Detail	22	ft
GC-AP-MW-35H	8/18/2020 10:37	Oxidation Reduction Potention	94.38	mv
GC-AP-MW-35H	8/18/2020 10:37	pH	6.07	pH
GC-AP-MW-35H	8/18/2020 10:37	Temperature	21.91	C
GC-AP-MW-35H	8/18/2020 10:37	Turbidity	1.27	NTU
GC-AP-MW-35H	8/18/2020 10:42	Conductivity	146.68	uS/cm
GC-AP-MW-35H	8/18/2020 10:42	DO	7.48	mg/L
GC-AP-MW-35H	8/18/2020 10:42	Depth to Water Detail	22	ft
GC-AP-MW-35H	8/18/2020 10:42	Oxidation Reduction Potention	101.15	mv
GC-AP-MW-35H	8/18/2020 10:42	pH	6.03	pH
GC-AP-MW-35H	8/18/2020 10:42	Temperature	21.91	C
GC-AP-MW-35H	8/18/2020 10:42	Turbidity	1.34	NTU
GC-AP-MW-35H	8/18/2020 10:47	Conductivity	149.86	uS/cm
GC-AP-MW-35H	8/18/2020 10:47	DO	7.47	mg/L
GC-AP-MW-35H	8/18/2020 10:47	Depth to Water Detail	22	ft
GC-AP-MW-35H	8/18/2020 10:47	Oxidation Reduction Potention	106.35	mv
GC-AP-MW-35H	8/18/2020 10:47	pH	6.03	pH
GC-AP-MW-35H	8/18/2020 10:47	Temperature	21.91	C
GC-AP-MW-35H	8/18/2020 10:47	Turbidity	1.32	NTU

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

Sewell Off-Site Wells Event 2

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

Alabama Power

Sample Group : WMWGREAP_1292

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 : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

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

Alabama Power

September 14, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2020.
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, 2021

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2020.09.15 15:04:58 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2020.09.16 08:52:39 -05'00'

NELAP ACCREDITED TNI LABORATORY

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.

Alabama Power Lab & Field SERVICES

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

Case Narrative

Alabama Power

Total Metals ICP

Greene County Ash Pond

WMWGREAP_1292

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.

Sample ID	Batch ID	Project ID
BA14931	680390	WMWGREAP_1292
BA14932	680390	WMWGREAP_1292
BA14933	680390	WMWGREAP_1292
BA14934	680390	WMWGREAP_1292
BA14935	680390	WMWGREAP_1292
BA14936	680390	WMWGREAP_1292
BA14937	680390	WMWGREAP_1292

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 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.
- 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:

Sample ID	Analyte	Dilution Factor
BA14931	Ca	10.15
BA14932	Ca	10.15

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

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

Case Narrative

Alabama Power

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1292

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.

Sample ID	Batch ID	Project ID
BA14931	680281	WMWGREAP_1292
BA14932	680281	WMWGREAP_1292
BA14933	680281	WMWGREAP_1292
BA14935	680281	WMWGREAP_1292
BA14936	680281	WMWGREAP_1292

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 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 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. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

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

Case Narrative

Alabama Power

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1292

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.

Sample ID	Batch ID	Project ID
BA14931	680017	WMWGREAP_1292
BA14932	680017	WMWGREAP_1292
BA14933	680017	WMWGREAP_1292
BA14934	680017	WMWGREAP_1292
BA14935	680017	WMWGREAP_1292
BA14936	680017	WMWGREAP_1292
BA14937	680017	WMWGREAP_1292

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.

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:

Sample ID	Analyte	Dilution Factor
BA14931	Mn	10.15
BA14932	Mn	10.15
BA14935	Mn	5.075

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

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

Case Narrative

Alabama Power

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1292

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.

Sample ID	Batch ID	Project ID
BA14931	680059	WMWGREAP_1292
BA14932	680059	WMWGREAP_1292
BA14933	680059	WMWGREAP_1292
BA14935	680059	WMWGREAP_1292
BA14936	680059	WMWGREAP_1292

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.

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:

Sample	Analyte	Dilution
BA14931	Mn	10.15
BA14932	Mn	10.15
BA14935	Mn	5.075

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

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

Case Narrative

Alabama Power

Mercury

Greene County Ash Pond

WMWGREAP_1292

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.

Sample ID	Batch ID	Project ID
BA14931	679373	WMWGREAP_1292
BA14932	679373	WMWGREAP_1292
BA14933	679373	WMWGREAP_1292
BA14934	679373	WMWGREAP_1292
BA14935	679373	WMWGREAP_1292
BA14936	679373	WMWGREAP_1292
BA14937	679373	WMWGREAP_1292

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

Case Narrative

TDS

Greene County Ash Pond

WMWGREAP_1292

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.

Sample ID	Batch ID	Project ID
BA14931	679306	WMWGREAP_1292
BA14932	679306	WMWGREAP_1292
BA14933	679306	WMWGREAP_1292
BA14934	679306	WMWGREAP_1292
BA14935	679306	WMWGREAP_1292
BA14936	679306	WMWGREAP_1292
BA14937	679306	WMWGREAP_1292

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- 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:
    - BA14934
    - BA14937

Case Narrative

Anions

Greene County Ash Pond

WMWGREAP_1292

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.

Sample ID	Batch ID	Project ID
BA14931	679629, 679985, & 680237	WMWGREAP_1292
BA14932	679629, 679985, & 680237	WMWGREAP_1292
BA14933	679629, 679985, & 680237	WMWGREAP_1292
BA14934	679629, 679985, & 680237	WMWGREAP_1292
BA14935	679629, 679985, & 680237	WMWGREAP_1292
BA14936	679629, 679985, & 680237	WMWGREAP_1292
BA14937	679629, 679985, & 680237	WMWGREAP_1292

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. 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:

Sample ID	Analyte	Dilution Factor
BA14931	Sulfate	16
BA14932	Sulfate	16
BA14933	Sulfate	3
BA14935	Sulfate	4

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

Alkalinity

Greene County Ash Pond

WMWGREAP_1292

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.

Sample ID	Batch ID	Project ID
BA14931	680207 & 680208	WMWGREAP_1292
BA14932	680207 & 680208	WMWGREAP_1292
BA14933	680207 & 680208	WMWGREAP_1292
BA14935	680207 & 680208	WMWGREAP_1292
BA14936	680207 & 680208	WMWGREAP_1292

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were analyzed within the established hold times, except for the following:
    a. BA14931-33 were analyzed hours outside of hold time.
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.

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP
Collected: 8/11/20 09:55
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14931

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 10:59		1.015	0.209	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 11:28		10.15	76.7	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 10:59		1.015	0.731	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 10:59		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 10:59		1.015	15.9	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 10:59		1.015	28.4	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 10:04		1.015	0.338	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:00	8/14/20 14:28		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:00	8/14/20 14:28		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:00	8/14/20 14:28		1.015	0.0909	mg/L	0.002	0.01	
* Beryllium, Total	8/13/20 14:00	8/14/20 14:28		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:00	8/14/20 14:28		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:00	8/14/20 14:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:00	8/14/20 14:28		1.015	0.0220	mg/L	0.002	0.005	
* Lead, Total	8/13/20 14:00	8/14/20 14:28		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:00	8/14/20 14:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/13/20 14:00	8/14/20 14:28		1.015	3.66	mg/L	0.3	2.5	
* Manganese, Total	8/13/20 14:00	8/17/20 15:46		10.15	9.86	mg/L	0.01015	0.05075	
* Selenium, Total	8/13/20 14:00	8/14/20 14:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:00	8/14/20 14:28		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/17/20 07:38	8/17/20 15:38		10.15	9.91	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 13:50	8/25/20 14:10		1	91.6	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	407	mg/L		25	

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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-59HO

Location Code: WMWGREAP
Collected: 8/11/20 09:55
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14931

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	91.6	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	0.02	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/18/20 10:48	8/18/20 10:48		1	12.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:47	8/20/20 13:47		1	0.137	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 16:55	8/25/20 16:55		16	206	mg/L	8.00	16	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	8/11/20 09:52	8/11/20 09:52			610.17	uS/cm			FA
pH	8/11/20 09:52	8/11/20 09:52			6.16	SU			FA
Temperature	8/11/20 09:52	8/11/20 09:52			19.00	C			FA
Turbidity	8/11/20 09:52	8/11/20 09:52			7.47	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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 09:55
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BA14931

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Sodium, Total	mg/L	0.00223	0.044	5.00	5.14	5.13	5.33	4.25 to 5.75	103	70 to 130	0.195	20
BA14936	Iron, Dissolved	mg/L	0.000401	0.0176	0.2	0.206	0.210	0.205	0.17 to 0.23	103	70 to 130	1.92	20
BA14937	Chromium, Total	mg/L	-0.0000271	0.00044	0.10	0.0978	0.0989	0.0973	0.085 to 0.115	97.8	70 to 130	1.12	20
BA14937	Beryllium, Total	mg/L	0.0000236	0.00088	0.10	0.0906	0.0873	0.0879	0.085 to 0.115	90.6	70 to 130	3.71	20
BA14937	Boron, Total	mg/L	0.000908	0.0650254	1.00	1.00	1.00	1.02	0.85 to 1.15	100	70 to 130	0.00	20
BA14937	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0985	0.0961	0.085 to 0.115	97.1	70 to 130	1.43	20
BA14937	Selenium, Total	mg/L	0.0000139	0.001	0.10	0.0996	0.0992	0.0998	0.085 to 0.115	99.6	70 to 130	0.402	20
BA14937	Arsenic, Total	mg/L	-0.0000311	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA14937	Calcium, Total	mg/L	0.0103	0.1518	5.00	5.11	5.08	5.13	4.25 to 5.75	102	70 to 130	0.589	20
BA14937	Mercury, Total by CVAA	mg/L	0.000133	0.0005	0.004	0.00364	0.00367	0.00363	0.0034 to 0.0046	91.0	70 to 130	0.821	20
BA14937	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.188	0.188	0.194	0.17 to 0.23	94.0	70 to 130	0.00	20
BA14937	Lead, Total	mg/L	0.0000017	0.0001474	0.10	0.0963	0.0968	0.0967	0.085 to 0.115	96.3	70 to 130	0.518	20
BA14936	Manganese, Dissolved	mg/L	0.0000048	0.0001474	0.10	0.109	0.109	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA14937	Barium, Total	mg/L	-0.000008	0.0002	0.10	0.0950	0.0962	0.0955	0.085 to 0.115	95.0	70 to 130	1.26	20
BA14937	Potassium, Total	mg/L	-0.00113	0.3674	10.0	9.80	9.79	9.79	8.5 to 11.5	98.0	70 to 130	0.102	20
BA14937	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	5.06	5.08	5.17	4.25 to 5.75	101	70 to 130	0.394	20
BA14937	Thallium, Total	mg/L	-0.0000008	0.0001474	0.10	0.100	0.100	0.0983	0.085 to 0.115	100	70 to 130	0.00	20
BA14937	Cobalt, Total	mg/L	-0.0000053	0.0001474	0.10	0.0996	0.101	0.100	0.085 to 0.115	99.6	70 to 130	1.40	20
BA14937	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0944	0.0983	0.0953	0.085 to 0.115	94.4	70 to 130	4.05	20
BA14937	Iron, Total	mg/L	0.00226	0.0176	0.2	0.207	0.205	0.208	0.17 to 0.23	104	70 to 130	0.971	20
BA14937	Manganese, Total	mg/L	0.0000757	0.0001474	0.10	0.0989	0.0991	0.0996	0.085 to 0.115	98.9	70 to 130	0.202	20
BA14937	Molybdenum, Total	mg/L	0.0000195	0.0001474	0.10	0.0986	0.0990	0.0998	0.085 to 0.115	98.6	70 to 130	0.405	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 09:55
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-59HO

Laboratory ID Number: BA14931

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Sulfate	mg/L	-0.318	0.50	20.0	19.2	-0.363	19.6	18 to 22	96.0	80 to 120	0.00	20
BA14935	Alkalinity, Total as CaCO3	mg/L					90.4	48.7	45.0 to 55.0			2.35	10
BA14932	Solids, Dissolved	mg/L	2.00	25			414	51.0	40 to 60			0.364	5
BA14937	Chloride	mg/L	0.0381	0.50	10.0	10.1	0.217	10.2	9 to 11	101	80 to 120	0.00	20
BA14937	Fluoride	mg/L	0.0253	0.05	2.50	2.61	0.0157	2.64	2.25 to 2.75	104	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-59HO DUP

Location Code: WMWGREAP
Collected: 8/11/20 09:55
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14932

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:01		1.015	0.209	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 11:31		10.15	76.5	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 11:01		1.015	0.710	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 11:01		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 11:01		1.015	15.9	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 11:01		1.015	28.4	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 10:07		1.015	0.334	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:00	8/14/20 14:30		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:00	8/14/20 14:30		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:00	8/14/20 14:30		1.015	0.0902	mg/L	0.002	0.01	
* Beryllium, Total	8/13/20 14:00	8/14/20 14:30		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:00	8/14/20 14:30		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:00	8/14/20 14:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:00	8/14/20 14:30		1.015	0.0220	mg/L	0.002	0.005	
* Lead, Total	8/13/20 14:00	8/14/20 14:30		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:00	8/14/20 14:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/13/20 14:00	8/14/20 14:30		1.015	3.60	mg/L	0.3	2.5	
* Manganese, Total	8/13/20 14:00	8/17/20 15:49		10.15	9.64	mg/L	0.01015	0.05075	
* Selenium, Total	8/13/20 14:00	8/14/20 14:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:00	8/14/20 14:30		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/17/20 07:38	8/17/20 15:41		10.15	10.3	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 13:50	8/25/20 14:10		1	92.4	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	411	mg/L		25	

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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-59HO DUP

Location Code: WMWGREAP
Collected: 8/11/20 09:55
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14932

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	92.4	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	0.02	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/18/20 10:49	8/18/20 10:49		1	12.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:48	8/20/20 13:48		1	0.110	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 16:56	8/25/20 16:56		16	207	mg/L	8.00	16	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	8/11/20 09:52	8/11/20 09:52			610.17	uS/cm			FA
pH	8/11/20 09:52	8/11/20 09:52			6.16	SU			FA
Temperature	8/11/20 09:52	8/11/20 09:52			19.00	C			FA
Turbidity	8/11/20 09:52	8/11/20 09:52			7.47	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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 09:55
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-59HO DUP

Laboratory ID Number: BA14932

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Molybdenum, Total	mg/L	0.0000195	0.0001474	0.10	0.0986	0.0990	0.0998	0.085 to 0.115	98.6	70 to 130	0.405	20
BA14937	Sodium, Total	mg/L	0.00223	0.044	5.00	5.14	5.13	5.33	4.25 to 5.75	103	70 to 130	0.195	20
BA14937	Cobalt, Total	mg/L	-0.0000053	0.0001474	0.10	0.0996	0.101	0.100	0.085 to 0.115	99.6	70 to 130	1.40	20
BA14937	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0944	0.0983	0.0953	0.085 to 0.115	94.4	70 to 130	4.05	20
BA14937	Beryllium, Total	mg/L	0.0000236	0.00088	0.10	0.0906	0.0873	0.0879	0.085 to 0.115	90.6	70 to 130	3.71	20
BA14937	Boron, Total	mg/L	0.000908	0.0650254	1.00	1.00	1.00	1.02	0.85 to 1.15	100	70 to 130	0.00	20
BA14937	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0985	0.0961	0.085 to 0.115	97.1	70 to 130	1.43	20
BA14937	Selenium, Total	mg/L	0.0000139	0.001	0.10	0.0996	0.0992	0.0998	0.085 to 0.115	99.6	70 to 130	0.402	20
BA14937	Arsenic, Total	mg/L	-0.0000311	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA14937	Calcium, Total	mg/L	0.0103	0.1518	5.00	5.11	5.08	5.13	4.25 to 5.75	102	70 to 130	0.589	20
BA14937	Mercury, Total by CVAA	mg/L	0.000133	0.0005	0.004	0.00364	0.00367	0.00363	0.0034 to 0.0046	91.0	70 to 130	0.821	20
BA14937	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.188	0.188	0.194	0.17 to 0.23	94.0	70 to 130	0.00	20
BA14937	Lead, Total	mg/L	0.0000017	0.0001474	0.10	0.0963	0.0968	0.0967	0.085 to 0.115	96.3	70 to 130	0.518	20
BA14936	Iron, Dissolved	mg/L	0.000401	0.0176	0.2	0.206	0.210	0.205	0.17 to 0.23	103	70 to 130	1.92	20
BA14937	Chromium, Total	mg/L	-0.0000271	0.00044	0.10	0.0978	0.0989	0.0973	0.085 to 0.115	97.8	70 to 130	1.12	20
BA14936	Manganese, Dissolved	mg/L	0.0000048	0.0001474	0.10	0.109	0.109	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA14937	Barium, Total	mg/L	-0.000008	0.0002	0.10	0.0950	0.0962	0.0955	0.085 to 0.115	95.0	70 to 130	1.26	20
BA14937	Potassium, Total	mg/L	-0.00113	0.3674	10.0	9.80	9.79	9.79	8.5 to 11.5	98.0	70 to 130	0.102	20
BA14937	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	5.06	5.08	5.17	4.25 to 5.75	101	70 to 130	0.394	20
BA14937	Thallium, Total	mg/L	-0.0000008	0.0001474	0.10	0.100	0.100	0.0983	0.085 to 0.115	100	70 to 130	0.00	20
BA14937	Iron, Total	mg/L	0.00226	0.0176	0.2	0.207	0.205	0.208	0.17 to 0.23	104	70 to 130	0.971	20
BA14937	Manganese, Total	mg/L	0.0000757	0.0001474	0.10	0.0989	0.0991	0.0996	0.085 to 0.115	98.9	70 to 130	0.202	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 09:55
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-59HO DUP

Laboratory ID Number: BA14932

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14932	Solids, Dissolved	mg/L	2.00	25			414	51.0	40 to 60			0.364	5
BA14935	Alkalinity, Total as CaCO3	mg/L					90.4	48.7	45.0 to 55.0			2.35	10
BA14937	Sulfate	mg/L	-0.318	0.50	20.0	19.2	-0.363	19.6	18 to 22	96.0	80 to 120	0.00	20
BA14937	Chloride	mg/L	0.0381	0.50	10.0	10.1	0.217	10.2	9 to 11	101	80 to 120	0.00	20
BA14937	Fluoride	mg/L	0.0253	0.05	2.50	2.61	0.0157	2.64	2.25 to 2.75	104	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP
Collected: 8/11/20 11:50
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14933

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:04		1.015	0.0903	mg/L	0.03	0.1	J
* Calcium, Total	8/20/20 14:40	8/21/20 11:04		1.015	15.9	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 11:04		1.015	0.136	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 11:04		1.015	0.0457	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 11:04		1.015	4.13	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 11:04		1.015	8.77	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 10:10		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:00	8/14/20 14:33		1.015	0.0204	mg/L	0.002	0.01	
* Beryllium, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/13/20 14:00	8/14/20 14:33		1.015	2.69	mg/L	0.3	2.5	
* Manganese, Total	8/13/20 14:00	8/14/20 14:33		1.015	0.242	mg/L	0.001	0.005	
* Selenium, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:00	8/14/20 14:33		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/17/20 07:38	8/17/20 11:41		1.015	0.239	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 13:50	8/25/20 14:10		1	22.9	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	109	mg/L		25	

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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-47HO

Location Code: WMWGREAP
Collected: 8/11/20 11:50
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14933

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	22.9	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	0.01	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/18/20 10:51	8/18/20 10:51		1	3.18	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:49	8/20/20 13:49		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 16:57	8/25/20 16:57		3	49.3	mg/L	1.50	3	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	8/11/20 11:45	8/11/20 11:45			166.72	uS/cm			FA
pH	8/11/20 11:45	8/11/20 11:45			6.25	SU			FA
Temperature	8/11/20 11:45	8/11/20 11:45			22.58	C			FA
Turbidity	8/11/20 11:45	8/11/20 11:45			6.67	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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 11:50
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BA14933

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Sodium, Total	mg/L	0.00223	0.044	5.00	5.14	5.13	5.33	4.25 to 5.75	103	70 to 130	0.195	20
BA14937	Molybdenum, Total	mg/L	0.0000195	0.0001474	0.10	0.0986	0.0990	0.0998	0.085 to 0.115	98.6	70 to 130	0.405	20
BA14937	Cobalt, Total	mg/L	-0.0000053	0.0001474	0.10	0.0996	0.101	0.100	0.085 to 0.115	99.6	70 to 130	1.40	20
BA14937	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0944	0.0983	0.0953	0.085 to 0.115	94.4	70 to 130	4.05	20
BA14936	Manganese, Dissolved	mg/L	0.0000048	0.0001474	0.10	0.109	0.109	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA14937	Barium, Total	mg/L	-0.000008	0.0002	0.10	0.0950	0.0962	0.0955	0.085 to 0.115	95.0	70 to 130	1.26	20
BA14937	Potassium, Total	mg/L	-0.00113	0.3674	10.0	9.80	9.79	9.79	8.5 to 11.5	98.0	70 to 130	0.102	20
BA14937	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	5.06	5.08	5.17	4.25 to 5.75	101	70 to 130	0.394	20
BA14937	Thallium, Total	mg/L	-0.0000008	0.0001474	0.10	0.100	0.100	0.0983	0.085 to 0.115	100	70 to 130	0.00	20
BA14937	Arsenic, Total	mg/L	-0.0000311	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA14937	Calcium, Total	mg/L	0.0103	0.1518	5.00	5.11	5.08	5.13	4.25 to 5.75	102	70 to 130	0.589	20
BA14937	Mercury, Total by CVAA	mg/L	0.000133	0.0005	0.004	0.00364	0.00367	0.00363	0.0034 to 0.0046	91.0	70 to 130	0.821	20
BA14937	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.188	0.188	0.194	0.17 to 0.23	94.0	70 to 130	0.00	20
BA14937	Lead, Total	mg/L	0.0000017	0.0001474	0.10	0.0963	0.0968	0.0967	0.085 to 0.115	96.3	70 to 130	0.518	20
BA14937	Beryllium, Total	mg/L	0.0000236	0.00088	0.10	0.0906	0.0873	0.0879	0.085 to 0.115	90.6	70 to 130	3.71	20
BA14937	Boron, Total	mg/L	0.000908	0.0650254	1.00	1.00	1.00	1.02	0.85 to 1.15	100	70 to 130	0.00	20
BA14937	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0985	0.0961	0.085 to 0.115	97.1	70 to 130	1.43	20
BA14937	Selenium, Total	mg/L	0.0000139	0.001	0.10	0.0996	0.0992	0.0998	0.085 to 0.115	99.6	70 to 130	0.402	20
BA14936	Iron, Dissolved	mg/L	0.000401	0.0176	0.2	0.206	0.210	0.205	0.17 to 0.23	103	70 to 130	1.92	20
BA14937	Chromium, Total	mg/L	-0.0000271	0.00044	0.10	0.0978	0.0989	0.0973	0.085 to 0.115	97.8	70 to 130	1.12	20
BA14937	Iron, Total	mg/L	0.00226	0.0176	0.2	0.207	0.205	0.208	0.17 to 0.23	104	70 to 130	0.971	20
BA14937	Manganese, Total	mg/L	0.0000757	0.0001474	0.10	0.0989	0.0991	0.0996	0.085 to 0.115	98.9	70 to 130	0.202	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 11:50
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-47HO

Laboratory ID Number: BA14933

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Sulfate	mg/L	-0.318	0.50	20.0	19.2	-0.363	19.6	18 to 22	96.0	80 to 120	0.00	20
BA14935	Alkalinity, Total as CaCO3	mg/L					90.4	48.7	45.0 to 55.0			2.35	10
BA14932	Solids, Dissolved	mg/L	2.00	25			414	51.0	40 to 60			0.364	5
BA14937	Chloride	mg/L	0.0381	0.50	10.0	10.1	0.217	10.2	9 to 11	101	80 to 120	0.00	20
BA14937	Fluoride	mg/L	0.0253	0.05	2.50	2.61	0.0157	2.64	2.25 to 2.75	104	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 8/11/20 12:05
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14934

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:07		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 11:07		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 11:07		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 11:07		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 11:07		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 11:07		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:00	8/14/20 14:36		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/18/20 10:52	8/18/20 10:52		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/20/20 13:50	8/20/20 13:50		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 16:59	8/25/20 16:59		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 8/11/20 12:05
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA14934

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Molybdenum, Total	mg/L	0.0000195	0.0001474	0.10	0.0986	0.0990	0.0998	0.085 to 0.115	98.6	70 to 130	0.405	20
BA14937	Sodium, Total	mg/L	0.00223	0.044	5.00	5.14	5.13	5.33	4.25 to 5.75	103	70 to 130	0.195	20
BA14937	Chromium, Total	mg/L	-0.0000271	0.00044	0.10	0.0978	0.0989	0.0973	0.085 to 0.115	97.8	70 to 130	1.12	20
BA14937	Barium, Total	mg/L	-0.000008	0.0002	0.10	0.0950	0.0962	0.0955	0.085 to 0.115	95.0	70 to 130	1.26	20
BA14937	Potassium, Total	mg/L	-0.00113	0.3674	10.0	9.80	9.79	9.79	8.5 to 11.5	98.0	70 to 130	0.102	20
BA14937	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	5.06	5.08	5.17	4.25 to 5.75	101	70 to 130	0.394	20
BA14937	Thallium, Total	mg/L	-0.0000008	0.0001474	0.10	0.100	0.100	0.0983	0.085 to 0.115	100	70 to 130	0.00	20
BA14937	Cobalt, Total	mg/L	-0.0000053	0.0001474	0.10	0.0996	0.101	0.100	0.085 to 0.115	99.6	70 to 130	1.40	20
BA14937	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0944	0.0983	0.0953	0.085 to 0.115	94.4	70 to 130	4.05	20
BA14937	Arsenic, Total	mg/L	-0.0000311	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA14937	Calcium, Total	mg/L	0.0103	0.1518	5.00	5.11	5.08	5.13	4.25 to 5.75	102	70 to 130	0.589	20
BA14937	Mercury, Total by CVAA	mg/L	0.000133	0.0005	0.004	0.00364	0.00367	0.00363	0.0034 to 0.0046	91.0	70 to 130	0.821	20
BA14937	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.188	0.188	0.194	0.17 to 0.23	94.0	70 to 130	0.00	20
BA14937	Lead, Total	mg/L	0.0000017	0.0001474	0.10	0.0963	0.0968	0.0967	0.085 to 0.115	96.3	70 to 130	0.518	20
BA14937	Beryllium, Total	mg/L	0.0000236	0.00088	0.10	0.0906	0.0873	0.0879	0.085 to 0.115	90.6	70 to 130	3.71	20
BA14937	Boron, Total	mg/L	0.000908	0.0650254	1.00	1.00	1.00	1.02	0.85 to 1.15	100	70 to 130	0.00	20
BA14937	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0985	0.0961	0.085 to 0.115	97.1	70 to 130	1.43	20
BA14937	Selenium, Total	mg/L	0.0000139	0.001	0.10	0.0996	0.0992	0.0998	0.085 to 0.115	99.6	70 to 130	0.402	20
BA14937	Iron, Total	mg/L	0.00226	0.0176	0.2	0.207	0.205	0.208	0.17 to 0.23	104	70 to 130	0.971	20
BA14937	Manganese, Total	mg/L	0.0000757	0.0001474	0.10	0.0989	0.0991	0.0996	0.085 to 0.115	98.9	70 to 130	0.202	20

Comments:

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 8/11/20 12:05
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA14934

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14932	Solids, Dissolved	mg/L	2.00	25			414	51.0	40 to 60			0.364	5
BA14937	Sulfate	mg/L	-0.318	0.50	20.0	19.2	-0.363	19.6	18 to 22	96.0	80 to 120	0.00	20
BA14937	Chloride	mg/L	0.0381	0.50	10.0	10.1	0.217	10.2	9 to 11	101	80 to 120	0.00	20
BA14937	Fluoride	mg/L	0.0253	0.05	2.50	2.61	0.0157	2.64	2.25 to 2.75	104	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP
Collected: 8/11/20 14:56
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14935

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:10		1.015	0.329	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 11:10		1.015	39.5	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 11:10		1.015	0.703	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 11:10		1.015	0.0825	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 11:10		1.015	6.61	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 11:10		1.015	24.6	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 10:13		1.015	0.0304	mg/L	0.02	0.05	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:00	8/14/20 14:39		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:00	8/14/20 14:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:00	8/14/20 14:39		1.015	0.0640	mg/L	0.002	0.01	
* Beryllium, Total	8/13/20 14:00	8/14/20 14:39		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:00	8/14/20 14:39		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:00	8/14/20 14:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:00	8/14/20 14:39		1.015	0.00560	mg/L	0.002	0.005	
* Lead, Total	8/13/20 14:00	8/14/20 14:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:00	8/14/20 14:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/13/20 14:00	8/14/20 14:39		1.015	5.39	mg/L	0.3	2.5	
* Manganese, Total	8/13/20 14:00	8/17/20 15:52		5.075	3.42	mg/L	0.005075	0.025375	
* Selenium, Total	8/13/20 14:00	8/14/20 14:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:00	8/14/20 14:39		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/17/20 07:38	8/17/20 15:44		5.075	3.43	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 13:50	8/25/20 14:10		1	88.3	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	229	mg/L		25	

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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-50HO

Location Code: WMWGREAP
Collected: 8/11/20 14:56
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14935

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	88.3	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	0.04	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/18/20 10:53	8/18/20 10:53		1	11.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:51	8/20/20 13:51		1	0.160	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 17:00	8/25/20 17:00		4	79.0	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	8/11/20 14:52	8/11/20 14:52			365.81	uS/cm			FA
pH	8/11/20 14:52	8/11/20 14:52			6.24	SU			FA
Temperature	8/11/20 14:52	8/11/20 14:52			19.60	C			FA
Turbidity	8/11/20 14:52	8/11/20 14:52			9.52	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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 14:56
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BA14935

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Sodium, Total	mg/L	0.00223	0.044	5.00	5.14	5.13	5.33	4.25 to 5.75	103	70 to 130	0.195	20
BA14937	Molybdenum, Total	mg/L	0.0000195	0.0001474	0.10	0.0986	0.0990	0.0998	0.085 to 0.115	98.6	70 to 130	0.405	20
BA14936	Iron, Dissolved	mg/L	0.000401	0.0176	0.2	0.206	0.210	0.205	0.17 to 0.23	103	70 to 130	1.92	20
BA14937	Chromium, Total	mg/L	-0.0000271	0.00044	0.10	0.0978	0.0989	0.0973	0.085 to 0.115	97.8	70 to 130	1.12	20
BA14937	Beryllium, Total	mg/L	0.0000236	0.00088	0.10	0.0906	0.0873	0.0879	0.085 to 0.115	90.6	70 to 130	3.71	20
BA14937	Boron, Total	mg/L	0.000908	0.0650254	1.00	1.00	1.00	1.02	0.85 to 1.15	100	70 to 130	0.00	20
BA14937	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0985	0.0961	0.085 to 0.115	97.1	70 to 130	1.43	20
BA14937	Selenium, Total	mg/L	0.0000139	0.001	0.10	0.0996	0.0992	0.0998	0.085 to 0.115	99.6	70 to 130	0.402	20
BA14937	Arsenic, Total	mg/L	-0.0000311	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA14937	Calcium, Total	mg/L	0.0103	0.1518	5.00	5.11	5.08	5.13	4.25 to 5.75	102	70 to 130	0.589	20
BA14937	Mercury, Total by CVAA	mg/L	0.000133	0.0005	0.004	0.00364	0.00367	0.00363	0.0034 to 0.0046	91.0	70 to 130	0.821	20
BA14937	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.188	0.188	0.194	0.17 to 0.23	94.0	70 to 130	0.00	20
BA14937	Lead, Total	mg/L	0.0000017	0.0001474	0.10	0.0963	0.0968	0.0967	0.085 to 0.115	96.3	70 to 130	0.518	20
BA14937	Cobalt, Total	mg/L	-0.0000053	0.0001474	0.10	0.0996	0.101	0.100	0.085 to 0.115	99.6	70 to 130	1.40	20
BA14937	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0944	0.0983	0.0953	0.085 to 0.115	94.4	70 to 130	4.05	20
BA14936	Manganese, Dissolved	mg/L	0.0000048	0.0001474	0.10	0.109	0.109	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA14937	Barium, Total	mg/L	-0.000008	0.0002	0.10	0.0950	0.0962	0.0955	0.085 to 0.115	95.0	70 to 130	1.26	20
BA14937	Potassium, Total	mg/L	-0.00113	0.3674	10.0	9.80	9.79	9.79	8.5 to 11.5	98.0	70 to 130	0.102	20
BA14937	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	5.06	5.08	5.17	4.25 to 5.75	101	70 to 130	0.394	20
BA14937	Thallium, Total	mg/L	-0.0000008	0.0001474	0.10	0.100	0.100	0.0983	0.085 to 0.115	100	70 to 130	0.00	20
BA14937	Iron, Total	mg/L	0.00226	0.0176	0.2	0.207	0.205	0.208	0.17 to 0.23	104	70 to 130	0.971	20
BA14937	Manganese, Total	mg/L	0.0000757	0.0001474	0.10	0.0989	0.0991	0.0996	0.085 to 0.115	98.9	70 to 130	0.202	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 14:56
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-50HO

Laboratory ID Number: BA14935

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14932	Solids, Dissolved	mg/L	2.00	25			414	51.0	40 to 60			0.364	5
BA14937	Sulfate	mg/L	-0.318	0.50	20.0	19.2	-0.363	19.6	18 to 22	96.0	80 to 120	0.00	20
BA14935	Alkalinity, Total as CaCO3	mg/L					90.4	48.7	45.0 to 55.0			2.35	10
BA14937	Chloride	mg/L	0.0381	0.50	10.0	10.1	0.217	10.2	9 to 11	101	80 to 120	0.00	20
BA14937	Fluoride	mg/L	0.0253	0.05	2.50	2.61	0.0157	2.64	2.25 to 2.75	104	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP
Collected: 8/11/20 16:29
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14936

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:13		1.015	0.0406	mg/L	0.03	0.1	J
* Calcium, Total	8/20/20 14:40	8/21/20 11:13		1.015	2.43	mg/L	0.1	0.5	
* Iron, Total	8/20/20 14:40	8/21/20 11:13		1.015	0.0655	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 11:13		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 11:13		1.015	1.58	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 11:13		1.015	7.58	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 10:16		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:00	8/14/20 14:41		1.015	0.0337	mg/L	0.002	0.01	
* Beryllium, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/13/20 14:00	8/14/20 14:41		1.015	1.88	mg/L	0.3	2.5	J
* Manganese, Total	8/13/20 14:00	8/14/20 14:41		1.015	0.00800	mg/L	0.001	0.005	
* Selenium, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:00	8/14/20 14:41		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/17/20 07:38	8/17/20 11:47		1.015	0.00820	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 11:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 13:50	8/25/20 14:10		1	4.68	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	52.7	mg/L		25	

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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-55HO

Location Code: WMWGREAP
Collected: 8/11/20 16:29
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14936

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	4.68	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 13:50	8/25/20 14:10		1	0.00	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/18/20 10:54	8/18/20 10:54		1	6.21	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 13:53	8/20/20 13:53		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 17:01	8/25/20 17:01		1	9.32	mg/L	0.50	1	
Analytical Method: Field Measurements		***Analyst: AWG***							
Conductivity	8/11/20 16:25	8/11/20 16:25			68.35	uS/cm			FA
pH	8/11/20 16:25	8/11/20 16:25			5.10	SU			FA
Temperature	8/11/20 16:25	8/11/20 16:25			18.83	C			FA
Turbidity	8/11/20 16:25	8/11/20 16:25			2.72	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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 16:29
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BA14936

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Sodium, Total	mg/L	0.00223	0.044	5.00	5.14	5.13	5.33	4.25 to 5.75	103	70 to 130	0.195	20
BA14937	Molybdenum, Total	mg/L	0.0000195	0.0001474	0.10	0.0986	0.0990	0.0998	0.085 to 0.115	98.6	70 to 130	0.405	20
BA14936	Iron, Dissolved	mg/L	0.000401	0.0176	0.2	0.206	0.210	0.205	0.17 to 0.23	103	70 to 130	1.92	20
BA14937	Chromium, Total	mg/L	-0.0000271	0.00044	0.10	0.0978	0.0989	0.0973	0.085 to 0.115	97.8	70 to 130	1.12	20
BA14937	Beryllium, Total	mg/L	0.0000236	0.00088	0.10	0.0906	0.0873	0.0879	0.085 to 0.115	90.6	70 to 130	3.71	20
BA14937	Boron, Total	mg/L	0.000908	0.0650254	1.00	1.00	1.00	1.02	0.85 to 1.15	100	70 to 130	0.00	20
BA14937	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0985	0.0961	0.085 to 0.115	97.1	70 to 130	1.43	20
BA14937	Selenium, Total	mg/L	0.0000139	0.001	0.10	0.0996	0.0992	0.0998	0.085 to 0.115	99.6	70 to 130	0.402	20
BA14937	Cobalt, Total	mg/L	-0.0000053	0.0001474	0.10	0.0996	0.101	0.100	0.085 to 0.115	99.6	70 to 130	1.40	20
BA14937	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0944	0.0983	0.0953	0.085 to 0.115	94.4	70 to 130	4.05	20
BA14937	Arsenic, Total	mg/L	-0.0000311	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA14937	Calcium, Total	mg/L	0.0103	0.1518	5.00	5.11	5.08	5.13	4.25 to 5.75	102	70 to 130	0.589	20
BA14937	Mercury, Total by CVAA	mg/L	0.000133	0.0005	0.004	0.00364	0.00367	0.00363	0.0034 to 0.0046	91.0	70 to 130	0.821	20
BA14937	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.188	0.188	0.194	0.17 to 0.23	94.0	70 to 130	0.00	20
BA14937	Lead, Total	mg/L	0.0000017	0.0001474	0.10	0.0963	0.0968	0.0967	0.085 to 0.115	96.3	70 to 130	0.518	20
BA14936	Manganese, Dissolved	mg/L	0.0000048	0.0001474	0.10	0.109	0.109	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA14937	Barium, Total	mg/L	-0.000008	0.0002	0.10	0.0950	0.0962	0.0955	0.085 to 0.115	95.0	70 to 130	1.26	20
BA14937	Potassium, Total	mg/L	-0.00113	0.3674	10.0	9.80	9.79	9.79	8.5 to 11.5	98.0	70 to 130	0.102	20
BA14937	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	5.06	5.08	5.17	4.25 to 5.75	101	70 to 130	0.394	20
BA14937	Thallium, Total	mg/L	-0.0000008	0.0001474	0.10	0.100	0.100	0.0983	0.085 to 0.115	100	70 to 130	0.00	20
BA14937	Iron, Total	mg/L	0.00226	0.0176	0.2	0.207	0.205	0.208	0.17 to 0.23	104	70 to 130	0.971	20
BA14937	Manganese, Total	mg/L	0.0000757	0.0001474	0.10	0.0989	0.0991	0.0996	0.085 to 0.115	98.9	70 to 130	0.202	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 16:29
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-55HO

Laboratory ID Number: BA14936

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Sulfate	mg/L	-0.318	0.50	20.0	19.2	-0.363	19.6	18 to 22	96.0	80 to 120	0.00	20
BA14935	Alkalinity, Total as CaCO3	mg/L					90.4	48.7	45.0 to 55.0			2.35	10
BA14937	Chloride	mg/L	0.0381	0.50	10.0	10.1	0.217	10.2	9 to 11	101	80 to 120	0.00	20
BA14937	Fluoride	mg/L	0.0253	0.05	2.50	2.61	0.0157	2.64	2.25 to 2.75	104	80 to 120	0.00	20
BA14932	Solids, Dissolved	mg/L	2.00	25			414	51.0	40 to 60			0.364	5

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 8/11/20 16:55
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14937

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:16		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 11:16		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 11:16		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 11:16		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 11:16		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 11:16		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:00	8/14/20 14:44		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 12:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/12/20 14:02	8/17/20 10:45		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/18/20 10:55	8/18/20 10:55		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/20/20 13:54	8/20/20 13:54		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 17:02	8/25/20 17:02		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 8/11/20 16:55
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA14937

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Sodium, Total	mg/L	0.00223	0.044	5.00	5.14	5.13	5.33	4.25 to 5.75	103	70 to 130	0.195	20
BA14937	Molybdenum, Total	mg/L	0.0000195	0.0001474	0.10	0.0986	0.0990	0.0998	0.085 to 0.115	98.6	70 to 130	0.405	20
BA14937	Chromium, Total	mg/L	-0.0000271	0.00044	0.10	0.0978	0.0989	0.0973	0.085 to 0.115	97.8	70 to 130	1.12	20
BA14937	Cobalt, Total	mg/L	-0.0000053	0.0001474	0.10	0.0996	0.101	0.100	0.085 to 0.115	99.6	70 to 130	1.40	20
BA14937	Antimony, Total	mg/L	0.000179	0.001	0.10	0.0944	0.0983	0.0953	0.085 to 0.115	94.4	70 to 130	4.05	20
BA14937	Barium, Total	mg/L	-0.000008	0.0002	0.10	0.0950	0.0962	0.0955	0.085 to 0.115	95.0	70 to 130	1.26	20
BA14937	Potassium, Total	mg/L	-0.00113	0.3674	10.0	9.80	9.79	9.79	8.5 to 11.5	98.0	70 to 130	0.102	20
BA14937	Magnesium, Total	mg/L	-0.00134	0.0462	5.00	5.06	5.08	5.17	4.25 to 5.75	101	70 to 130	0.394	20
BA14937	Thallium, Total	mg/L	-0.0000008	0.0001474	0.10	0.100	0.100	0.0983	0.085 to 0.115	100	70 to 130	0.00	20
BA14937	Beryllium, Total	mg/L	0.0000236	0.00088	0.10	0.0906	0.0873	0.0879	0.085 to 0.115	90.6	70 to 130	3.71	20
BA14937	Boron, Total	mg/L	0.000908	0.0650254	1.00	1.00	1.00	1.02	0.85 to 1.15	100	70 to 130	0.00	20
BA14937	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0971	0.0985	0.0961	0.085 to 0.115	97.1	70 to 130	1.43	20
BA14937	Selenium, Total	mg/L	0.0000139	0.001	0.10	0.0996	0.0992	0.0998	0.085 to 0.115	99.6	70 to 130	0.402	20
BA14937	Arsenic, Total	mg/L	-0.0000311	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA14937	Calcium, Total	mg/L	0.0103	0.1518	5.00	5.11	5.08	5.13	4.25 to 5.75	102	70 to 130	0.589	20
BA14937	Mercury, Total by CVAA	mg/L	0.000133	0.0005	0.004	0.00364	0.00367	0.00363	0.0034 to 0.0046	91.0	70 to 130	0.821	20
BA14937	Lithium, Total	mg/L	-0.0000718	0.0154	0.200	0.188	0.188	0.194	0.17 to 0.23	94.0	70 to 130	0.00	20
BA14937	Lead, Total	mg/L	0.0000017	0.0001474	0.10	0.0963	0.0968	0.0967	0.085 to 0.115	96.3	70 to 130	0.518	20
BA14937	Iron, Total	mg/L	0.00226	0.0176	0.2	0.207	0.205	0.208	0.17 to 0.23	104	70 to 130	0.971	20
BA14937	Manganese, Total	mg/L	0.0000757	0.0001474	0.10	0.0989	0.0991	0.0996	0.085 to 0.115	98.9	70 to 130	0.202	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 8/11/20 16:55
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA14937

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14937	Sulfate	mg/L	-0.318	0.50	20.0	19.2	-0.363	19.6	18 to 22	96.0	80 to 120	0.00	20
BA14932	Solids, Dissolved	mg/L	2.00	25			414	51.0	40 to 60			0.364	5
BA14937	Chloride	mg/L	0.0381	0.50	10.0	10.1	0.217	10.2	9 to 11	101	80 to 120	0.00	20
BA14937	Fluoride	mg/L	0.0253	0.05	2.50	2.61	0.0157	2.64	2.25 to 2.75	104	80 to 120	0.00	20

Comments:

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

Definitions

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.
HT	Analysis was performed outside of the analytical holding time.
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 ☐ Outside Lab

☑ Lab Complete

Lab ETA 08/12/2020 10:57

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-59HO	08/11/2020	09:55	6	Groundwater		BA14931
MW-59HO DUP	08/11/2020	09:55	6	Sample Duplicate		BA14932
MW-47HO	08/11/2020	11:50	6	Groundwater		BA14933
FB-1	08/11/2020	12:05	4	Field Blank		BA14934
MW-50HO	08/11/2020	14:56	6	Groundwater		BA14935
MW-55HO	08/11/2020	16:29	6	Groundwater		BA14936
EB-1	08/11/2020	16:55	4	Equipment Blank		BA14937

Relinquished By	Received By	Date/Time
		08/12/2020 11:04

SmarTroll ID	7586-41443-5-2
Turbidity ID	5160-26211-1-1
Sample Event	1292

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	3.6 degrees C
Thermometer ID	6603-34819-1-1
pH Strip ID	8129-45506-2-1

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 08/12/2020 10:57

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Anthony Goggins	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-47HO. Correcting bottle count. LBM 8/12/2020

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-59HO	08/11/2020	09:55	1	Groundwater		BA14938
MW-59HO DUP	08/11/2020	09:55	1	Sample Duplicate		BA14939
MW-47HO	08/11/2020	11:50	3	Groundwater		BA14940
FB-1	08/11/2020	12:05	1	Field Blank		BA14941
MW-50HO	08/11/2020	14:56	1	Groundwater		BA14942
MW-55HO	08/11/2020	16:29	1	Groundwater		BA14943
EB-1	08/11/2020	16:55	1	Equipment Blank		BA14944

Relinquished By	Received By	Date/Time
[signature]	[signature]	08/12/2020 11:04

SmarTroll ID	7586-41443-5-2
Turbidity ID	5160-26211-1-1
Sample Event	1292

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-192168-2
Laboratory SDG: Plant Greene County Ash Pond 1292
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Authorized for release by:
9/18/2020 11:50:10 AM

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-192168-2

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-192168-2

RAD

Method 9315: Radium-226 prep batch 160-479632. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA 14938 MW-59HO (400-192168-2), BA 14939 MW-59HO DUP (400-192168-3), BA 14940 MW-47HO (400-192168-4), BA 14940 MW-47HO (400-192168-4[MS]), BA 14940 MW-47HO (400-192168-4[MSD]), BA 14941 FB-1 (400-192168-5), BA 14942 MW-50HO (400-192168-6), BA 14943 MW-55HO (400-192168-7), BA 14944 EB-1 (400-192168-8), (LCS 160-479632/1-A) and (MB 160-479632/24-A)

Method 9320: Radium-228 prep batch 160-479635. The Ra-228 matrix spike duplicate (MSD) is recovering (175%) outside of the control limits of (150%). Sample matrix interference and/or non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. Due to high spike recovery in the matrix spike duplicate (MSD), the RER/RPD is outside of limits. The laboratory control sample (LCS) and two other sets of matrix spike/matrix spike duplicate (MS/MSD) samples all fall within quality control criteria demonstrating acceptable preparation and instrument performance. The data have been reported with this narrative. BA 14940 MW-47HO (400-192168-4[MSD])

Method 9320: Radium-228 prep batch 160-479635. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA 14938 MW-59HO (400-192168-2), BA 14939 MW-59HO DUP (400-192168-3), BA 14940 MW-47HO (400-192168-4), BA 14940 MW-47HO (400-192168-4[MS]), BA 14940 MW-47HO (400-192168-4[MSD]), BA 14941 FB-1 (400-192168-5), BA 14942 MW-50HO (400-192168-6), BA 14943 MW-55HO (400-192168-7), BA 14944 EB-1 (400-192168-8), (LCS 160-479635/1-A), (MB 160-479635/24-A), (400-192168-A-9-D), (400-192168-A-9-E MS), (400-192168-A-9-F MSD), (400-192168-A-13-D), (400-192168-A-13-E MS) and (400-192168-A-13-F MSD)

Method PrecSep_0: Radium 228 Prep Batch 160-479635. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA 14938 MW-59HO (400-192168-2), BA 14939 MW-59HO DUP (400-192168-3), BA 14940 MW-47HO (400-192168-4), BA 14940 MW-47HO (400-192168-4[MS]), BA 14940 MW-47HO (400-192168-4[MSD]), BA 14941 FB-1 (400-192168-5), BA 14942 MW-50HO (400-192168-6), BA 14943 MW-55HO (400-192168-7) and BA 14944 EB-1 (400-192168-8).

Method PrecSep-21: Radium 226 Prep Batch 160-479632. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA 14938 MW-59HO (400-192168-2), BA 14939 MW-59HO DUP (400-192168-3), BA 14940 MW-47HO (400-192168-4), BA 14940 MW-47HO (400-192168-4[MS]), BA 14940 MW-47HO (400-192168-4[MSD]), BA 14941 FB-1 (400-192168-5), BA 14942 MW-50HO (400-192168-6), BA 14943 MW-55HO (400-192168-7) and BA 14944 EB-1 (400-192168-8).

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-192168-2	BA 14938 MW-59HO	Water	08/11/20 09:55	08/14/20 12:15	
400-192168-3	BA 14939 MW-59HO DUP	Water	08/11/20 09:55	08/14/20 12:15	
400-192168-4	BA 14940 MW-47HO	Water	08/11/20 11:50	08/14/20 12:15	
400-192168-5	BA 14941 FB-1	Water	08/11/20 12:05	08/14/20 12:15	
400-192168-6	BA 14942 MW-50HO	Water	08/11/20 14:56	08/14/20 12:15	
400-192168-7	BA 14943 MW-55HO	Water	08/11/20 16:29	08/14/20 12:15	
400-192168-8	BA 14944 EB-1	Water	08/11/20 16:55	08/14/20 12:15	

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Client Sample ID: BA 14938 MW-59HO

Date Collected: 08/11/20 09:55
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-2

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.557**		0.166	0.173	1.00	0.128	pCi/L	08/17/20 15:49	09/09/20 13:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*40 - 110*	*08/17/20 15:49*	*09/09/20 13:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.440	U F	0.379	0.381	1.00	0.607	pCi/L	08/17/20 16:16	09/02/20 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:15*	*1*
Y Carrier	*82.2*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:15*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.997**		0.414	0.418	5.00	0.607	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Client Sample ID: BA 14939 MW-59HO DUP

Lab Sample ID: 400-192168-3
Date Collected: 08/11/20 09:55
Matrix: Water
Date Received: 08/14/20 12:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.558**		0.176	0.183	1.00	0.160	pCi/L	08/17/20 15:49	09/09/20 13:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.2*		*40 - 110*	*08/17/20 15:49*	*09/09/20 13:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.180	U F	0.367	0.367	1.00	0.627	pCi/L	08/17/20 16:16	09/02/20 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.2*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*
Y Carrier	*78.1*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.738**		0.407	0.410	5.00	0.627	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Client Sample ID: BA 14940 MW-47HO

Lab Sample ID: 400-192168-4

Date Collected: 08/11/20 11:50
Matrix: Water
Date Received: 08/14/20 12:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0317	U	0.0915	0.0916	1.00	0.173	pCi/L	08/17/20 15:49	09/09/20 13:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*40 - 110*	*08/17/20 15:49*	*09/09/20 13:58*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.176	U F	0.422	0.422	1.00	0.727	pCi/L	08/17/20 16:16	09/02/20 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*
Y Carrier	*75.5*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.208	U	0.432	0.432	5.00	0.727	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Client Sample ID: BA 14941 FB-1

Date Collected: 08/11/20 12:05
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-5

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0143	U	0.0607	0.0607	1.00	0.124	pCi/L	08/17/20 15:49	09/09/20 18:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.7*		*40 - 110*	*08/17/20 15:49*	*09/09/20 18:57*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.722**	**F**	0.430	0.435	1.00	0.655	pCi/L	08/17/20 16:16	09/02/20 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.7*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*
Y Carrier	*78.5*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.736**		0.434	0.439	5.00	0.655	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Client Sample ID: BA 14942 MW-50HO

Date Collected: 08/11/20 14:56
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-6

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.207		0.124	0.126	1.00	0.163	pCi/L	08/17/20 15:49	09/09/20 18:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.5*		*40 - 110*	*08/17/20 15:49*	*09/09/20 18:57*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.676	F	0.379	0.384	1.00	0.568	pCi/L	08/17/20 16:16	09/02/20 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.5*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*
Y Carrier	*85.2*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.883		0.399	0.404	5.00	0.568	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Client Sample ID: BA 14943 MW-55HO

Date Collected: 08/11/20 16:29
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-7

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.134	U	0.113	0.114	1.00	0.172	pCi/L	08/17/20 15:49	09/09/20 18:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*08/17/20 15:49*	*09/09/20 18:57*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.328	U F	0.352	0.353	1.00	0.575	pCi/L	08/17/20 16:16	09/02/20 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*
Y Carrier	*81.5*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.462	U	0.370	0.371	5.00	0.575	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Client Sample ID: BA 14944 EB-1

Date Collected: 08/11/20 16:55
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-8

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00226	U	0.0710	0.0710	1.00	0.150	pCi/L	08/17/20 15:49	09/09/20 18:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.8*		*40 - 110*	*08/17/20 15:49*	*09/09/20 18:57*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0546	U F	0.366	0.366	1.00	0.666	pCi/L	08/17/20 16:16	09/02/20 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.8*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*
Y Carrier	*80.7*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0523	U	0.373	0.373	5.00	0.666	pCi/L		09/15/20 13:53	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Job ID: 400-192168-2
Project/Site: CCR Plant Greene
SDG: Plant Greene County Ash Pond 1292

Qualifiers

Rad

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
F1	MS and/or MSD recovery exceeds control limits.
U	Result is less than the sample detection limit.

Glossary

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

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Client Sample ID: BA 14938 MW-59HO
Lab Sample ID: 400-192168-2

Date Collected: 08/11/20 09:55
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 13:58	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481340	09/02/20 12:15	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14939 MW-59HO DUP
Lab Sample ID: 400-192168-3

Date Collected: 08/11/20 09:55
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 13:58	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481340	09/02/20 12:16	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14940 MW-47HO
Lab Sample ID: 400-192168-4

Date Collected: 08/11/20 11:50
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 13:58	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481340	09/02/20 12:16	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14941 FB-1
Lab Sample ID: 400-192168-5

Date Collected: 08/11/20 12:05
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 18:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481340	09/02/20 12:16	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Client Sample ID: BA 14942 MW-50HO

Lab Sample ID: 400-192168-6
Date Collected: 08/11/20 14:56
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 18:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481340	09/02/20 12:16	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14943 MW-55HO

Lab Sample ID: 400-192168-7
Date Collected: 08/11/20 16:29
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 18:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481340	09/02/20 12:16	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14944 EB-1

Lab Sample ID: 400-192168-8
Date Collected: 08/11/20 16:55
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 18:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481340	09/02/20 12:16	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Rad

Prep Batch: 479632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192168-2	BA 14938 MW-59HO	Total/NA	Water	PrecSep-21	
400-192168-3	BA 14939 MW-59HO DUP	Total/NA	Water	PrecSep-21	
400-192168-4	BA 14940 MW-47HO	Total/NA	Water	PrecSep-21	
400-192168-5	BA 14941 FB-1	Total/NA	Water	PrecSep-21	
400-192168-6	BA 14942 MW-50HO	Total/NA	Water	PrecSep-21	
400-192168-7	BA 14943 MW-55HO	Total/NA	Water	PrecSep-21	
400-192168-8	BA 14944 EB-1	Total/NA	Water	PrecSep-21	
MB 160-479632/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-479632/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-192168-4 MS	BA 14940 MW-47HO	Total/NA	Water	PrecSep-21	
400-192168-4 MSD	BA 14940 MW-47HO	Total/NA	Water	PrecSep-21	

Prep Batch: 479635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192168-2	BA 14938 MW-59HO	Total/NA	Water	PrecSep_0	
400-192168-3	BA 14939 MW-59HO DUP	Total/NA	Water	PrecSep_0	
400-192168-4	BA 14940 MW-47HO	Total/NA	Water	PrecSep_0	
400-192168-5	BA 14941 FB-1	Total/NA	Water	PrecSep_0	
400-192168-6	BA 14942 MW-50HO	Total/NA	Water	PrecSep_0	
400-192168-7	BA 14943 MW-55HO	Total/NA	Water	PrecSep_0	
400-192168-8	BA 14944 EB-1	Total/NA	Water	PrecSep_0	
MB 160-479635/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-479635/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-192168-4 MS	BA 14940 MW-47HO	Total/NA	Water	PrecSep_0	
400-192168-4 MSD	BA 14940 MW-47HO	Total/NA	Water	PrecSep_0	
400-192168-A-9-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
400-192168-A-9-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
400-192168-A-13-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-479632/24-A
Matrix: Water
Analysis Batch: 481785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479632

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04309	U	0.0776	0.0777	1.00	0.137	pCi/L	08/17/20 15:49	09/09/20 21:19	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*08/17/20 15:49*	*09/09/20 21:19*	*1*

Lab Sample ID: LCS 160-479632/1-A
Matrix: Water
Analysis Batch: 481785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479632

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	12.76		1.36	1.00	0.125	pCi/L	84	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.9*		*40 - 110*

Lab Sample ID: 400-192168-4 MS
Matrix: Water
Analysis Batch: 481785

Client Sample ID: BA 14940 MW-47HO
Prep Type: Total/NA
Prep Batch: 479632

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.0317	U	15.1	15.15		1.61	1.00	0.160	pCi/L	100	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*79.8*		*40 - 110*

Lab Sample ID: 400-192168-4 MSD
Matrix: Water
Analysis Batch: 481785

Client Sample ID: BA 14940 MW-47HO
Prep Type: Total/NA
Prep Batch: 479632

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.0317	U	15.1	18.57		2.06	1.00	0.248	pCi/L	122	75 - 138	0.94	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*44.1*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-479635/24-A
Matrix: Water
Analysis Batch: 481341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479635

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3462	U	0.277	0.279	1.00	0.438	pCi/L	08/17/20 16:16	09/02/20 12:22	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110	08/17/20 16:16	09/02/20 12:22	1
Y Carrier	93.8		40 - 110	08/17/20 16:16	09/02/20 12:22	1

Lab Sample ID: LCS 160-479635/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			10.5	9.883		1.25	1.00	0.620	pCi/L	95	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.9		40 - 110
Y Carrier	81.5		40 - 110

Lab Sample ID: 400-192168-4 MS — **Client Sample ID: BA 14940 MW-47HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.176	U F	10.5	11.30		1.44	1.00	0.693	pCi/L	106	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	79.8		40 - 110
Y Carrier	77.4		40 - 110

Lab Sample ID: 400-192168-4 MSD — **Client Sample ID: BA 14940 MW-47HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.176	U F	10.5	18.55	F1 F	2.45	1.00	1.26	pCi/L	175	45 - 150	1.86	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	44.1		40 - 110
Y Carrier	76.3		40 - 110

Lab Sample ID: 400-192168-A-9-E MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.372	U	10.5	8.723		1.14	1.00	0.549	pCi/L	80	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	87.0		40 - 110
Y Carrier	84.9		40 - 110

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

Lab Sample ID: 400-192168-A-9-F MSD
Matrix: Water
Analysis Batch: 481340

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 479635

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.372	U	10.5	9.245		1.17	1.00	0.542	pCi/L	85	45 - 150	0.23	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*93.1*		*40 - 110*
Y Carrier	*85.2*		*40 - 110*

Lab Sample ID: 400-192168-A-13-F MSD
Matrix: Water
Analysis Batch: 481341

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 479635

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.362	U	10.5	9.091		1.16	1.00	0.541	pCi/L	83	45 - 150	0.23	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*86.7*		*40 - 110*
Y Carrier	*89.7*		*40 - 110*

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler: Anthony Goggins	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkiff@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1292	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Sewage, Groundwater, Soil, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra228/Ra226_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA14938	8/11/20	09:55	G	Water						X	1	MW-59HO
BA14939	8/11/20	09:55	G	Water						X	1	MW-59HO DUP (Sample Duplicate)
BA14940	8/11/20	11:50	G	Water		X				X	3	MW-47HO
BA14941	8/11/20	12:05	G	Water						X	1	FB-1 (Field Blank)
BA14942	8/11/20	14:56	G	Water						X	1	MW-50HO
BA14943	8/11/20	16:29	G	Water						X	1	MW-55HO
BA14944	8/11/20	16:55	G	Water						X	1	EB-1 (Equipment Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 4404A Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Laura Midkiff	Date/Time: 08/12/2020 15:30	Company: Water APC	Received by:	Date/Time: 8/14/20 1215	Company: TAPG
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

Ver 09/28/2016

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-192168-2
SDG Number: Plant Greene County Ash Pond 1292

Login Number: 192168
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	25.6°C, 26.9°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-192168-2
SDG Number: Plant Greene County Ash Pond 1292

Login Number: 192168
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/15/20 11:57 AM

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

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-2
SDG: Plant Greene County Ash Pond 1292

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-47HO	8/11/2020 11:20	Conductivity	156.17	uS/cm
GC-AP-MW-47HO	8/11/2020 11:20	DO	0.35	mg/L
GC-AP-MW-47HO	8/11/2020 11:20	Depth to Water Detail	12.93	ft
GC-AP-MW-47HO	8/11/2020 11:20	Oxidation Reduction Potention	56.32	mv
GC-AP-MW-47HO	8/11/2020 11:20	pH	6.15	pH
GC-AP-MW-47HO	8/11/2020 11:20	Temperature	22.82	C
GC-AP-MW-47HO	8/11/2020 11:20	Turbidity	24.2	NTU
GC-AP-MW-47HO	8/11/2020 11:25	Conductivity	160.73	uS/cm
GC-AP-MW-47HO	8/11/2020 11:25	DO	0.26	mg/L
GC-AP-MW-47HO	8/11/2020 11:25	Depth to Water Detail	12.93	ft
GC-AP-MW-47HO	8/11/2020 11:25	Oxidation Reduction Potention	52.53	mv
GC-AP-MW-47HO	8/11/2020 11:25	pH	6.24	pH
GC-AP-MW-47HO	8/11/2020 11:25	Temperature	22.58	C
GC-AP-MW-47HO	8/11/2020 11:25	Turbidity	16.8	NTU
GC-AP-MW-47HO	8/11/2020 11:30	Conductivity	160.63	uS/cm
GC-AP-MW-47HO	8/11/2020 11:30	DO	0.34	mg/L
GC-AP-MW-47HO	8/11/2020 11:30	Depth to Water Detail	12.93	ft
GC-AP-MW-47HO	8/11/2020 11:30	Oxidation Reduction Potention	63.58	mv
GC-AP-MW-47HO	8/11/2020 11:30	pH	6.26	pH
GC-AP-MW-47HO	8/11/2020 11:30	Temperature	22.65	C
GC-AP-MW-47HO	8/11/2020 11:30	Turbidity	12.5	NTU
GC-AP-MW-47HO	8/11/2020 11:35	Conductivity	161.7	uS/cm
GC-AP-MW-47HO	8/11/2020 11:35	DO	0.45	mg/L
GC-AP-MW-47HO	8/11/2020 11:35	Depth to Water Detail	12.93	ft
GC-AP-MW-47HO	8/11/2020 11:35	Oxidation Reduction Potention	66.2	mv
GC-AP-MW-47HO	8/11/2020 11:35	pH	6.26	pH
GC-AP-MW-47HO	8/11/2020 11:35	Temperature	22.7	C
GC-AP-MW-47HO	8/11/2020 11:35	Turbidity	10.89	NTU
GC-AP-MW-47HO	8/11/2020 11:40	Conductivity	163.68	uS/cm
GC-AP-MW-47HO	8/11/2020 11:40	DO	0.53	mg/L
GC-AP-MW-47HO	8/11/2020 11:40	Depth to Water Detail	12.93	ft
GC-AP-MW-47HO	8/11/2020 11:40	Oxidation Reduction Potention	65.4	mv
GC-AP-MW-47HO	8/11/2020 11:40	pH	6.19	pH
GC-AP-MW-47HO	8/11/2020 11:40	Temperature	22.63	C
GC-AP-MW-47HO	8/11/2020 11:40	Turbidity	8.11	NTU
GC-AP-MW-47HO	8/11/2020 11:45	Conductivity	166.72	uS/cm
GC-AP-MW-47HO	8/11/2020 11:45	DO	0.54	mg/L
GC-AP-MW-47HO	8/11/2020 11:45	Depth to Water Detail	12.93	ft
GC-AP-MW-47HO	8/11/2020 11:45	Oxidation Reduction Potention	48.59	mv
GC-AP-MW-47HO	8/11/2020 11:45	pH	6.25	pH
GC-AP-MW-47HO	8/11/2020 11:45	Temperature	22.58	C
GC-AP-MW-47HO	8/11/2020 11:45	Turbidity	6.67	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-50HO	8/11/2020 12:42	Conductivity	368.15	uS/cm
GC-AP-MW-50HO	8/11/2020 12:42	DO	0.39	mg/L
GC-AP-MW-50HO	8/11/2020 12:42	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 12:42	Oxidation Reduction Potention	32.39	mv
GC-AP-MW-50HO	8/11/2020 12:42	pH	6.46	pH
GC-AP-MW-50HO	8/11/2020 12:42	Temperature	19.85	C
GC-AP-MW-50HO	8/11/2020 12:42	Turbidity	88.6	NTU
GC-AP-MW-50HO	8/11/2020 12:47	Conductivity	365.22	uS/cm
GC-AP-MW-50HO	8/11/2020 12:47	DO	0.28	mg/L
GC-AP-MW-50HO	8/11/2020 12:47	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 12:47	Oxidation Reduction Potention	34.69	mv
GC-AP-MW-50HO	8/11/2020 12:47	pH	6.45	pH
GC-AP-MW-50HO	8/11/2020 12:47	Temperature	20.05	C
GC-AP-MW-50HO	8/11/2020 12:47	Turbidity	96.3	NTU
GC-AP-MW-50HO	8/11/2020 12:52	Conductivity	365.03	uS/cm
GC-AP-MW-50HO	8/11/2020 12:52	DO	0.28	mg/L
GC-AP-MW-50HO	8/11/2020 12:52	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 12:52	Oxidation Reduction Potention	40.49	mv
GC-AP-MW-50HO	8/11/2020 12:52	pH	6.41	pH
GC-AP-MW-50HO	8/11/2020 12:52	Temperature	20.04	C
GC-AP-MW-50HO	8/11/2020 12:52	Turbidity	95.1	NTU
GC-AP-MW-50HO	8/11/2020 12:57	Conductivity	365.41	uS/cm
GC-AP-MW-50HO	8/11/2020 12:57	DO	0.27	mg/L
GC-AP-MW-50HO	8/11/2020 12:57	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 12:57	Oxidation Reduction Potention	37.61	mv
GC-AP-MW-50HO	8/11/2020 12:57	pH	6.33	pH
GC-AP-MW-50HO	8/11/2020 12:57	Temperature	19.97	C
GC-AP-MW-50HO	8/11/2020 12:57	Turbidity	81.9	NTU
GC-AP-MW-50HO	8/11/2020 13:02	Conductivity	366.59	uS/cm
GC-AP-MW-50HO	8/11/2020 13:02	DO	0.27	mg/L
GC-AP-MW-50HO	8/11/2020 13:02	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:02	Oxidation Reduction Potention	32.63	mv
GC-AP-MW-50HO	8/11/2020 13:02	pH	6.25	pH
GC-AP-MW-50HO	8/11/2020 13:02	Temperature	19.73	C
GC-AP-MW-50HO	8/11/2020 13:02	Turbidity	88.1	NTU
GC-AP-MW-50HO	8/11/2020 13:07	Conductivity	366.28	uS/cm
GC-AP-MW-50HO	8/11/2020 13:07	DO	0.25	mg/L
GC-AP-MW-50HO	8/11/2020 13:07	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:07	Oxidation Reduction Potention	43.78	mv
GC-AP-MW-50HO	8/11/2020 13:07	pH	6.17	pH
GC-AP-MW-50HO	8/11/2020 13:07	Temperature	19.78	C
GC-AP-MW-50HO	8/11/2020 13:07	Turbidity	60	NTU
GC-AP-MW-50HO	8/11/2020 13:12	Conductivity	365.92	uS/cm
GC-AP-MW-50HO	8/11/2020 13:12	DO	0.26	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-50HO	8/11/2020 13:12	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:12	Oxidation Reduction Potention	41.72	mv
GC-AP-MW-50HO	8/11/2020 13:12	pH	6.11	pH
GC-AP-MW-50HO	8/11/2020 13:12	Temperature	19.84	C
GC-AP-MW-50HO	8/11/2020 13:12	Turbidity	49	NTU
GC-AP-MW-50HO	8/11/2020 13:17	Conductivity	365.88	uS/cm
GC-AP-MW-50HO	8/11/2020 13:17	DO	0.25	mg/L
GC-AP-MW-50HO	8/11/2020 13:17	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:17	Oxidation Reduction Potention	47.92	mv
GC-AP-MW-50HO	8/11/2020 13:17	pH	6.08	pH
GC-AP-MW-50HO	8/11/2020 13:17	Temperature	19.7	C
GC-AP-MW-50HO	8/11/2020 13:17	Turbidity	44.3	NTU
GC-AP-MW-50HO	8/11/2020 13:22	Conductivity	365.91	uS/cm
GC-AP-MW-50HO	8/11/2020 13:22	DO	0.23	mg/L
GC-AP-MW-50HO	8/11/2020 13:22	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:22	Oxidation Reduction Potention	48.97	mv
GC-AP-MW-50HO	8/11/2020 13:22	pH	6.07	pH
GC-AP-MW-50HO	8/11/2020 13:22	Temperature	19.69	C
GC-AP-MW-50HO	8/11/2020 13:22	Turbidity	41	NTU
GC-AP-MW-50HO	8/11/2020 13:27	Conductivity	365.4	uS/cm
GC-AP-MW-50HO	8/11/2020 13:27	DO	0.25	mg/L
GC-AP-MW-50HO	8/11/2020 13:27	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:27	Oxidation Reduction Potention	51.07	mv
GC-AP-MW-50HO	8/11/2020 13:27	pH	6.08	pH
GC-AP-MW-50HO	8/11/2020 13:27	Temperature	19.81	C
GC-AP-MW-50HO	8/11/2020 13:27	Turbidity	36.1	NTU
GC-AP-MW-50HO	8/11/2020 13:32	Conductivity	367.18	uS/cm
GC-AP-MW-50HO	8/11/2020 13:32	DO	0.27	mg/L
GC-AP-MW-50HO	8/11/2020 13:32	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:32	Oxidation Reduction Potention	44.19	mv
GC-AP-MW-50HO	8/11/2020 13:32	pH	6.09	pH
GC-AP-MW-50HO	8/11/2020 13:32	Temperature	19.93	C
GC-AP-MW-50HO	8/11/2020 13:32	Turbidity	33	NTU
GC-AP-MW-50HO	8/11/2020 13:37	Conductivity	364.42	uS/cm
GC-AP-MW-50HO	8/11/2020 13:37	DO	0.26	mg/L
GC-AP-MW-50HO	8/11/2020 13:37	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:37	Oxidation Reduction Potention	42.04	mv
GC-AP-MW-50HO	8/11/2020 13:37	pH	6.08	pH
GC-AP-MW-50HO	8/11/2020 13:37	Temperature	19.64	C
GC-AP-MW-50HO	8/11/2020 13:37	Turbidity	30.5	NTU
GC-AP-MW-50HO	8/11/2020 13:42	Conductivity	364.6	uS/cm
GC-AP-MW-50HO	8/11/2020 13:42	DO	0.25	mg/L
GC-AP-MW-50HO	8/11/2020 13:42	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:42	Oxidation Reduction Potention	42.23	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-50HO	8/11/2020 13:42	pH	6.08	pH
GC-AP-MW-50HO	8/11/2020 13:42	Temperature	19.65	C
GC-AP-MW-50HO	8/11/2020 13:42	Turbidity	29	NTU
GC-AP-MW-50HO	8/11/2020 13:47	Conductivity	364.69	uS/cm
GC-AP-MW-50HO	8/11/2020 13:47	DO	0.24	mg/L
GC-AP-MW-50HO	8/11/2020 13:47	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:47	Oxidation Reduction Potention	46.19	mv
GC-AP-MW-50HO	8/11/2020 13:47	pH	6.07	pH
GC-AP-MW-50HO	8/11/2020 13:47	Temperature	19.7	C
GC-AP-MW-50HO	8/11/2020 13:47	Turbidity	24.1	NTU
GC-AP-MW-50HO	8/11/2020 13:52	Conductivity	365.03	uS/cm
GC-AP-MW-50HO	8/11/2020 13:52	DO	0.25	mg/L
GC-AP-MW-50HO	8/11/2020 13:52	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:52	Oxidation Reduction Potention	43.04	mv
GC-AP-MW-50HO	8/11/2020 13:52	pH	6.07	pH
GC-AP-MW-50HO	8/11/2020 13:52	Temperature	19.76	C
GC-AP-MW-50HO	8/11/2020 13:52	Turbidity	22.5	NTU
GC-AP-MW-50HO	8/11/2020 13:57	Conductivity	363.84	uS/cm
GC-AP-MW-50HO	8/11/2020 13:57	DO	0.23	mg/L
GC-AP-MW-50HO	8/11/2020 13:57	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 13:57	Oxidation Reduction Potention	39.21	mv
GC-AP-MW-50HO	8/11/2020 13:57	pH	6.05	pH
GC-AP-MW-50HO	8/11/2020 13:57	Temperature	19.65	C
GC-AP-MW-50HO	8/11/2020 13:57	Turbidity	19.8	NTU
GC-AP-MW-50HO	8/11/2020 14:02	Conductivity	364.02	uS/cm
GC-AP-MW-50HO	8/11/2020 14:02	DO	0.25	mg/L
GC-AP-MW-50HO	8/11/2020 14:02	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:02	Oxidation Reduction Potention	44.96	mv
GC-AP-MW-50HO	8/11/2020 14:02	pH	6.05	pH
GC-AP-MW-50HO	8/11/2020 14:02	Temperature	19.57	C
GC-AP-MW-50HO	8/11/2020 14:02	Turbidity	18.7	NTU
GC-AP-MW-50HO	8/11/2020 14:07	Conductivity	363.31	uS/cm
GC-AP-MW-50HO	8/11/2020 14:07	DO	0.25	mg/L
GC-AP-MW-50HO	8/11/2020 14:07	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:07	Oxidation Reduction Potention	49.56	mv
GC-AP-MW-50HO	8/11/2020 14:07	pH	6.05	pH
GC-AP-MW-50HO	8/11/2020 14:07	Temperature	19.65	C
GC-AP-MW-50HO	8/11/2020 14:07	Turbidity	16.5	NTU
GC-AP-MW-50HO	8/11/2020 14:12	Conductivity	368.15	uS/cm
GC-AP-MW-50HO	8/11/2020 14:12	DO	0.24	mg/L
GC-AP-MW-50HO	8/11/2020 14:12	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:12	Oxidation Reduction Potention	46.92	mv
GC-AP-MW-50HO	8/11/2020 14:12	pH	6.05	pH
GC-AP-MW-50HO	8/11/2020 14:12	Temperature	19.87	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-50HO	8/11/2020 14:12	Turbidity	15.4	NTU
GC-AP-MW-50HO	8/11/2020 14:17	Conductivity	367.63	uS/cm
GC-AP-MW-50HO	8/11/2020 14:17	DO	0.24	mg/L
GC-AP-MW-50HO	8/11/2020 14:17	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:17	Oxidation Reduction Potention	37.86	mv
GC-AP-MW-50HO	8/11/2020 14:17	pH	6.05	pH
GC-AP-MW-50HO	8/11/2020 14:17	Temperature	19.72	C
GC-AP-MW-50HO	8/11/2020 14:17	Turbidity	14.1	NTU
GC-AP-MW-50HO	8/11/2020 14:22	Conductivity	367.04	uS/cm
GC-AP-MW-50HO	8/11/2020 14:22	DO	0.23	mg/L
GC-AP-MW-50HO	8/11/2020 14:22	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:22	Oxidation Reduction Potention	36.51	mv
GC-AP-MW-50HO	8/11/2020 14:22	pH	6.06	pH
GC-AP-MW-50HO	8/11/2020 14:22	Temperature	19.9	C
GC-AP-MW-50HO	8/11/2020 14:22	Turbidity	12.7	NTU
GC-AP-MW-50HO	8/11/2020 14:27	Conductivity	367.22	uS/cm
GC-AP-MW-50HO	8/11/2020 14:27	DO	0.22	mg/L
GC-AP-MW-50HO	8/11/2020 14:27	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:27	Oxidation Reduction Potention	46.74	mv
GC-AP-MW-50HO	8/11/2020 14:27	pH	6.08	pH
GC-AP-MW-50HO	8/11/2020 14:27	Temperature	19.68	C
GC-AP-MW-50HO	8/11/2020 14:27	Turbidity	11.9	NTU
GC-AP-MW-50HO	8/11/2020 14:32	Conductivity	367.2	uS/cm
GC-AP-MW-50HO	8/11/2020 14:32	DO	0.22	mg/L
GC-AP-MW-50HO	8/11/2020 14:32	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:32	Oxidation Reduction Potention	44.17	mv
GC-AP-MW-50HO	8/11/2020 14:32	pH	6.11	pH
GC-AP-MW-50HO	8/11/2020 14:32	Temperature	19.7	C
GC-AP-MW-50HO	8/11/2020 14:32	Turbidity	11.2	NTU
GC-AP-MW-50HO	8/11/2020 14:37	Conductivity	367.36	uS/cm
GC-AP-MW-50HO	8/11/2020 14:37	DO	0.21	mg/L
GC-AP-MW-50HO	8/11/2020 14:37	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:37	Oxidation Reduction Potention	34.09	mv
GC-AP-MW-50HO	8/11/2020 14:37	pH	6.13	pH
GC-AP-MW-50HO	8/11/2020 14:37	Temperature	19.61	C
GC-AP-MW-50HO	8/11/2020 14:37	Turbidity	11.78	NTU
GC-AP-MW-50HO	8/11/2020 14:42	Conductivity	366.82	uS/cm
GC-AP-MW-50HO	8/11/2020 14:42	DO	0.22	mg/L
GC-AP-MW-50HO	8/11/2020 14:42	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:42	Oxidation Reduction Potention	33.04	mv
GC-AP-MW-50HO	8/11/2020 14:42	pH	6.17	pH
GC-AP-MW-50HO	8/11/2020 14:42	Temperature	19.69	C
GC-AP-MW-50HO	8/11/2020 14:42	Turbidity	10.76	NTU
GC-AP-MW-50HO	8/11/2020 14:47	Conductivity	366.79	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-50HO	8/11/2020 14:47	DO	0.22	mg/L
GC-AP-MW-50HO	8/11/2020 14:47	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:47	Oxidation Reduction Potention	35.03	mv
GC-AP-MW-50HO	8/11/2020 14:47	pH	6.2	pH
GC-AP-MW-50HO	8/11/2020 14:47	Temperature	19.71	C
GC-AP-MW-50HO	8/11/2020 14:47	Turbidity	10.31	NTU
GC-AP-MW-50HO	8/11/2020 14:52	Conductivity	365.81	uS/cm
GC-AP-MW-50HO	8/11/2020 14:52	DO	0.23	mg/L
GC-AP-MW-50HO	8/11/2020 14:52	Depth to Water Detail	8.42	ft
GC-AP-MW-50HO	8/11/2020 14:52	Oxidation Reduction Potention	26.32	mv
GC-AP-MW-50HO	8/11/2020 14:52	pH	6.24	pH
GC-AP-MW-50HO	8/11/2020 14:52	Temperature	19.6	C
GC-AP-MW-50HO	8/11/2020 14:52	Turbidity	9.52	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-55HO	8/11/2020 15:50	Conductivity	59.63	uS/cm
GC-AP-MW-55HO	8/11/2020 15:50	DO	5.86	mg/L
GC-AP-MW-55HO	8/11/2020 15:50	Depth to Water Detail	31.39	ft
GC-AP-MW-55HO	8/11/2020 15:50	Oxidation Reduction Potention	62.37	mv
GC-AP-MW-55HO	8/11/2020 15:50	pH	5.17	pH
GC-AP-MW-55HO	8/11/2020 15:50	Temperature	18.91	C
GC-AP-MW-55HO	8/11/2020 15:50	Turbidity	54.5	NTU
GC-AP-MW-55HO	8/11/2020 15:55	Conductivity	64.14	uS/cm
GC-AP-MW-55HO	8/11/2020 15:55	DO	5.74	mg/L
GC-AP-MW-55HO	8/11/2020 15:55	Depth to Water Detail	31.39	ft
GC-AP-MW-55HO	8/11/2020 15:55	Oxidation Reduction Potention	64.3	mv
GC-AP-MW-55HO	8/11/2020 15:55	pH	5.25	pH
GC-AP-MW-55HO	8/11/2020 15:55	Temperature	18.88	C
GC-AP-MW-55HO	8/11/2020 15:55	Turbidity	22.9	NTU
GC-AP-MW-55HO	8/11/2020 16:00	Conductivity	69.53	uS/cm
GC-AP-MW-55HO	8/11/2020 16:00	DO	5.61	mg/L
GC-AP-MW-55HO	8/11/2020 16:00	Depth to Water Detail	31.39	ft
GC-AP-MW-55HO	8/11/2020 16:00	Oxidation Reduction Potention	63.23	mv
GC-AP-MW-55HO	8/11/2020 16:00	pH	5.31	pH
GC-AP-MW-55HO	8/11/2020 16:00	Temperature	18.85	C
GC-AP-MW-55HO	8/11/2020 16:00	Turbidity	11.7	NTU
GC-AP-MW-55HO	8/11/2020 16:05	Conductivity	66.02	uS/cm
GC-AP-MW-55HO	8/11/2020 16:05	DO	5.68	mg/L
GC-AP-MW-55HO	8/11/2020 16:05	Depth to Water Detail	31.39	ft
GC-AP-MW-55HO	8/11/2020 16:05	Oxidation Reduction Potention	79.78	mv
GC-AP-MW-55HO	8/11/2020 16:05	pH	5.16	pH
GC-AP-MW-55HO	8/11/2020 16:05	Temperature	18.84	C
GC-AP-MW-55HO	8/11/2020 16:05	Turbidity	6.96	NTU
GC-AP-MW-55HO	8/11/2020 16:10	Conductivity	64.51	uS/cm
GC-AP-MW-55HO	8/11/2020 16:10	DO	5.65	mg/L
GC-AP-MW-55HO	8/11/2020 16:10	Depth to Water Detail	31.39	ft
GC-AP-MW-55HO	8/11/2020 16:10	Oxidation Reduction Potention	83.89	mv
GC-AP-MW-55HO	8/11/2020 16:10	pH	5.09	pH
GC-AP-MW-55HO	8/11/2020 16:10	Temperature	18.68	C
GC-AP-MW-55HO	8/11/2020 16:10	Turbidity	5.15	NTU
GC-AP-MW-55HO	8/11/2020 16:15	Conductivity	68.6	uS/cm
GC-AP-MW-55HO	8/11/2020 16:15	DO	5.6	mg/L
GC-AP-MW-55HO	8/11/2020 16:15	Depth to Water Detail	31.39	ft
GC-AP-MW-55HO	8/11/2020 16:15	Oxidation Reduction Potention	89.04	mv
GC-AP-MW-55HO	8/11/2020 16:15	pH	5.16	pH
GC-AP-MW-55HO	8/11/2020 16:15	Temperature	18.98	C
GC-AP-MW-55HO	8/11/2020 16:15	Turbidity	3.64	NTU
GC-AP-MW-55HO	8/11/2020 16:20	Conductivity	69.66	uS/cm
GC-AP-MW-55HO	8/11/2020 16:20	DO	5.57	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-55HO	8/11/2020 16:20	Depth to Water Detail	31.39	ft
GC-AP-MW-55HO	8/11/2020 16:20	Oxidation Reduction Potention	83.17	mv
GC-AP-MW-55HO	8/11/2020 16:20	pH	5.16	pH
GC-AP-MW-55HO	8/11/2020 16:20	Temperature	18.81	C
GC-AP-MW-55HO	8/11/2020 16:20	Turbidity	3.23	NTU
GC-AP-MW-55HO	8/11/2020 16:25	Conductivity	68.35	uS/cm
GC-AP-MW-55HO	8/11/2020 16:25	DO	5.61	mg/L
GC-AP-MW-55HO	8/11/2020 16:25	Depth to Water Detail	31.39	ft
GC-AP-MW-55HO	8/11/2020 16:25	Oxidation Reduction Potention	87.43	mv
GC-AP-MW-55HO	8/11/2020 16:25	pH	5.1	pH
GC-AP-MW-55HO	8/11/2020 16:25	Temperature	18.83	C
GC-AP-MW-55HO	8/11/2020 16:25	Turbidity	2.72	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-59HO	8/11/2020 8:52	Conductivity	625.19	uS/cm
GC-AP-MW-59HO	8/11/2020 8:52	DO	0.26	mg/L
GC-AP-MW-59HO	8/11/2020 8:52	Depth to Water Detail	9.34	ft
GC-AP-MW-59HO	8/11/2020 8:52	Oxidation Reduction Potention	-42.46	mv
GC-AP-MW-59HO	8/11/2020 8:52	pH	6.26	pH
GC-AP-MW-59HO	8/11/2020 8:52	Temperature	19.28	C
GC-AP-MW-59HO	8/11/2020 8:52	Turbidity	27.5	NTU
GC-AP-MW-59HO	8/11/2020 8:57	Conductivity	622.43	uS/cm
GC-AP-MW-59HO	8/11/2020 8:57	DO	0.2	mg/L
GC-AP-MW-59HO	8/11/2020 8:57	Depth to Water Detail	9.34	ft
GC-AP-MW-59HO	8/11/2020 8:57	Oxidation Reduction Potention	-53.69	mv
GC-AP-MW-59HO	8/11/2020 8:57	pH	6.22	pH
GC-AP-MW-59HO	8/11/2020 8:57	Temperature	19.13	C
GC-AP-MW-59HO	8/11/2020 8:57	Turbidity	39.3	NTU
GC-AP-MW-59HO	8/11/2020 9:02	Conductivity	622.41	uS/cm
GC-AP-MW-59HO	8/11/2020 9:02	DO	0.18	mg/L
GC-AP-MW-59HO	8/11/2020 9:02	Depth to Water Detail	9.34	ft
GC-AP-MW-59HO	8/11/2020 9:02	Oxidation Reduction Potention	-53.46	mv
GC-AP-MW-59HO	8/11/2020 9:02	pH	6.24	pH
GC-AP-MW-59HO	8/11/2020 9:02	Temperature	19.08	C
GC-AP-MW-59HO	8/11/2020 9:02	Turbidity	48	NTU
GC-AP-MW-59HO	8/11/2020 9:07	Conductivity	621.2	uS/cm
GC-AP-MW-59HO	8/11/2020 9:07	DO	0.17	mg/L
GC-AP-MW-59HO	8/11/2020 9:07	Depth to Water Detail	9.34	ft
GC-AP-MW-59HO	8/11/2020 9:07	Oxidation Reduction Potention	-43.35	mv
GC-AP-MW-59HO	8/11/2020 9:07	pH	6.23	pH
GC-AP-MW-59HO	8/11/2020 9:07	Temperature	19.22	C
GC-AP-MW-59HO	8/11/2020 9:07	Turbidity	56.7	NTU
GC-AP-MW-59HO	8/11/2020 9:12	Conductivity	620.73	uS/cm
GC-AP-MW-59HO	8/11/2020 9:12	DO	0.16	mg/L
GC-AP-MW-59HO	8/11/2020 9:12	Depth to Water Detail	9.34	ft
GC-AP-MW-59HO	8/11/2020 9:12	Oxidation Reduction Potention	-45.77	mv
GC-AP-MW-59HO	8/11/2020 9:12	pH	6.23	pH
GC-AP-MW-59HO	8/11/2020 9:12	Temperature	19.23	C
GC-AP-MW-59HO	8/11/2020 9:12	Turbidity	59.8	NTU
GC-AP-MW-59HO	8/11/2020 9:17	Conductivity	619	uS/cm
GC-AP-MW-59HO	8/11/2020 9:17	DO	0.16	mg/L
GC-AP-MW-59HO	8/11/2020 9:17	Depth to Water Detail	9.42	ft
GC-AP-MW-59HO	8/11/2020 9:17	Oxidation Reduction Potention	-41.69	mv
GC-AP-MW-59HO	8/11/2020 9:17	pH	6.21	pH
GC-AP-MW-59HO	8/11/2020 9:17	Temperature	19.08	C
GC-AP-MW-59HO	8/11/2020 9:17	Turbidity	48.2	NTU
GC-AP-MW-59HO	8/11/2020 9:22	Conductivity	617.61	uS/cm
GC-AP-MW-59HO	8/11/2020 9:22	DO	0.15	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-59HO	8/11/2020 9:22	Depth to Water Detail	9.42	ft
GC-AP-MW-59HO	8/11/2020 9:22	Oxidation Reduction Potention	-44.44	mv
GC-AP-MW-59HO	8/11/2020 9:22	pH	6.21	pH
GC-AP-MW-59HO	8/11/2020 9:22	Temperature	19.07	C
GC-AP-MW-59HO	8/11/2020 9:22	Turbidity	31.9	NTU
GC-AP-MW-59HO	8/11/2020 9:27	Conductivity	616.4	uS/cm
GC-AP-MW-59HO	8/11/2020 9:27	DO	0.15	mg/L
GC-AP-MW-59HO	8/11/2020 9:27	Depth to Water Detail	9.42	ft
GC-AP-MW-59HO	8/11/2020 9:27	Oxidation Reduction Potention	-43.19	mv
GC-AP-MW-59HO	8/11/2020 9:27	pH	6.21	pH
GC-AP-MW-59HO	8/11/2020 9:27	Temperature	19.01	C
GC-AP-MW-59HO	8/11/2020 9:27	Turbidity	25.6	NTU
GC-AP-MW-59HO	8/11/2020 9:32	Conductivity	617.71	uS/cm
GC-AP-MW-59HO	8/11/2020 9:32	DO	0.15	mg/L
GC-AP-MW-59HO	8/11/2020 9:32	Depth to Water Detail	9.42	ft
GC-AP-MW-59HO	8/11/2020 9:32	Oxidation Reduction Potention	-35.77	mv
GC-AP-MW-59HO	8/11/2020 9:32	pH	6.19	pH
GC-AP-MW-59HO	8/11/2020 9:32	Temperature	19.12	C
GC-AP-MW-59HO	8/11/2020 9:32	Turbidity	19.1	NTU
GC-AP-MW-59HO	8/11/2020 9:37	Conductivity	614.2	uS/cm
GC-AP-MW-59HO	8/11/2020 9:37	DO	0.15	mg/L
GC-AP-MW-59HO	8/11/2020 9:37	Depth to Water Detail	9.42	ft
GC-AP-MW-59HO	8/11/2020 9:37	Oxidation Reduction Potention	-44.53	mv
GC-AP-MW-59HO	8/11/2020 9:37	pH	6.19	pH
GC-AP-MW-59HO	8/11/2020 9:37	Temperature	18.99	C
GC-AP-MW-59HO	8/11/2020 9:37	Turbidity	14.2	NTU
GC-AP-MW-59HO	8/11/2020 9:42	Conductivity	613.41	uS/cm
GC-AP-MW-59HO	8/11/2020 9:42	DO	0.15	mg/L
GC-AP-MW-59HO	8/11/2020 9:42	Depth to Water Detail	9.42	ft
GC-AP-MW-59HO	8/11/2020 9:42	Oxidation Reduction Potention	-35.54	mv
GC-AP-MW-59HO	8/11/2020 9:42	pH	6.2	pH
GC-AP-MW-59HO	8/11/2020 9:42	Temperature	19.01	C
GC-AP-MW-59HO	8/11/2020 9:42	Turbidity	11.2	NTU
GC-AP-MW-59HO	8/11/2020 9:47	Conductivity	612.59	uS/cm
GC-AP-MW-59HO	8/11/2020 9:47	DO	0.15	mg/L
GC-AP-MW-59HO	8/11/2020 9:47	Depth to Water Detail	9.42	ft
GC-AP-MW-59HO	8/11/2020 9:47	Oxidation Reduction Potention	-33.76	mv
GC-AP-MW-59HO	8/11/2020 9:47	pH	6.19	pH
GC-AP-MW-59HO	8/11/2020 9:47	Temperature	19.11	C
GC-AP-MW-59HO	8/11/2020 9:47	Turbidity	9.26	NTU
GC-AP-MW-59HO	8/11/2020 9:52	Conductivity	610.17	uS/cm
GC-AP-MW-59HO	8/11/2020 9:52	DO	0.15	mg/L
GC-AP-MW-59HO	8/11/2020 9:52	Depth to Water Detail	9.42	ft
GC-AP-MW-59HO	8/11/2020 9:52	Oxidation Reduction Potention	-31.59	mv

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-59HO	8/11/2020 9:52	pH	6.16	pH
GC-AP-MW-59HO	8/11/2020 9:52	Temperature	19	C
GC-AP-MW-59HO	8/11/2020 9:52	Turbidity	7.47	NTU

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

MW-52HO Land Trust Event 2

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

Alabama Power

Sample Group : WMWGREAP_1293

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 : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

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

Alabama Power

September 14, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2020.
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, 2021

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2020.09.15 15:05:41 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2020.09.16 09:35:51 -05'00'

NELAP ACCREDITED TNI LABORATORY

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.

Alabama Power Lab & Field SERVICES

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

Case Narrative

Alabama Power

Total Metals ICP

Greene County Ash Pond

WMWGREAP_1293

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.

Sample ID	Batch ID	Project ID
BA14945	680411	WMWGREAP_1293
BA14946	680411	WMWGREAP_1293
BA14947	680411	WMWGREAP_1293
BA14948	680411	WMWGREAP_1293

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 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.
- 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:

Sample ID	Analyte	Dilution Factor
BA14945	Ca & Na	10.15
BA14946	Ca & Na	10.15

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

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

Case Narrative

Alabama Power

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1293

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.

Sample ID	Batch ID	Project ID
BA14945	680283	WMWGREAP_1293
BA14946	680283	WMWGREAP_1293

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 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 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. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

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

Case Narrative

Alabama Power

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1293

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.

Sample ID	Batch ID	Project ID
BA14945	680432	WMWGREAP_1293
BA14946	680432	WMWGREAP_1293
BA14947	680432	WMWGREAP_1293
BA14948	680432	WMWGREAP_1293

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.

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:

Sample ID	Analyte	Dilution Factor
BA14945	Mn	10.15
BA14946	Mn	10.15

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

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

Case Narrative

Alabama Power

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1293

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.

Sample ID	Batch ID	Project ID
BA14945	680061	WMWGREAP_1293
BA14946	680061	WMWGREAP_1293

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.

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:
    - BA14946 spike level for Manganese was <30% of the sample nominal 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:

Sample	Analyte	Dilution
BA14945	Mn	10.15
BA14946	Mn	10.15

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

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

Case Narrative

Alabama Power

Mercury

Greene County Ash Pond

WMWGREAP_1293

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.

Sample ID	Batch ID	Project ID
BA14945	679374	WMWGREAP_1293
BA14946	679374	WMWGREAP_1293
BA14947	679374	WMWGREAP_1293
BA14948	679374	WMWGREAP_1293

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

TDS

Greene County Ash Pond

WMWGREAP_1293

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.

Sample ID	Batch ID	Project ID
BA14945	679460	WMWGREAP_1293
BA14946	679460	WMWGREAP_1293
BA14947	679460	WMWGREAP_1293
BA14948	679460	WMWGREAP_1293

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- 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:
    - BA14947
    - BA14948

Case Narrative

Anions

Greene County Ash Pond

WMWGREAP_1293

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.

Sample ID	Batch ID	Project ID
BA14945	679630, 679986, & 680238	WMWGREAP_1293
BA14946	679630, 679986, & 680238	WMWGREAP_1293
BA14947	679630, 679986, & 680238	WMWGREAP_1293
BA14948	679630, 679986, & 680238	WMWGREAP_1293

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. 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:

Sample ID	Analyte	Dilution Factor
BA14945	Chloride & Sulfate	10 & 4
BA14946	Chloride & Sulfate	10 & 4

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

Alkalinity

Greene County Ash Pond

WMWGREAP_1293

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.

Sample ID	Batch ID	Project ID
BA14945	680195 & 680196	WMWGREAP_1293
BA14945	680195 & 680196	WMWGREAP_1293

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were analyzed within the established hold times, except for the following:
    a. BA14945-46 were analyzed hours outside of hold time.
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.

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP
Collected: 8/11/20 09:00
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14945

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:37		1.015	1.25	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 12:04		10.15	73.1	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 11:37		1.015	0.543	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 11:37		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 11:37		1.015	14.2	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:04		10.15	87.3	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 10:30		1.015	0.0248	mg/L	0.02	0.05	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:13	8/14/20 13:44		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:13	8/14/20 13:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:13	8/14/20 13:44		1.015	0.116	mg/L	0.002	0.01	
* Beryllium, Total	8/13/20 14:13	8/14/20 13:44		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:13	8/14/20 13:44		1.015	0.000420	mg/L	0.0003	0.001	J
* Chromium, Total	8/13/20 14:13	8/14/20 13:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:13	8/14/20 13:44		1.015	0.0129	mg/L	0.002	0.005	
* Lead, Total	8/13/20 14:13	8/14/20 13:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:13	8/14/20 13:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/13/20 14:13	8/14/20 13:44		1.015	3.65	mg/L	0.3	2.5	
* Manganese, Total	8/13/20 14:13	8/14/20 14:54		10.15	8.92	mg/L	0.01015	0.05075	
* Selenium, Total	8/13/20 14:13	8/14/20 13:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:13	8/14/20 13:44		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/17/20 07:45	8/17/20 12:18		10.15	10.1	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 12:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 13:40	8/25/20 13:50		1	228	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/14/20 17:00	8/19/20 11:40		1	462	mg/L		50	

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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-52HO

Location Code: WMWGREAP
Collected: 8/11/20 09:00
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14945

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 13:40	8/25/20 13:50		1	228	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 13:40	8/25/20 13:50		1	0.04	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/18/20 11:42	8/18/20 11:42		10	87.4	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 14:05	8/20/20 14:05		1	0.0762	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 17:14	8/25/20 17:14		4	64.1	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/11/20 08:56	8/11/20 08:56			804.48	uS/cm			FA
pH	8/11/20 08:56	8/11/20 08:56			6.08	SU			FA
Temperature	8/11/20 08:56	8/11/20 08:56			18.78	C			FA
Turbidity	8/11/20 08:56	8/11/20 08:56			7.89	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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 09:00
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BA14945

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14948	Barium, Total	mg/L	-0.0000178	0.0002	0.10	0.0944	0.0971	0.0927	0.085 to 0.115	94.4	70 to 130	2.82	20
BA14948	Antimony, Total	mg/L	0.000141	0.001	0.10	0.0957	0.0954	0.0930	0.085 to 0.115	95.7	70 to 130	0.314	20
BA14948	Manganese, Total	mg/L	0.0000322	0.0001474	0.10	0.0999	0.0992	0.101	0.085 to 0.115	99.9	70 to 130	0.703	20
BA14946	Manganese, Dissolved	mg/L	0.0000652	0.0001474	0.10	9.52	9.66	0.104	0.085 to 0.115	30.0	70 to 130	1.46	20
BA14948	Sodium, Total	mg/L	0.00154	0.044	5.00	5.18	5.15	5.26	4.25 to 5.75	104	70 to 130	0.581	20
BA14948	Thallium, Total	mg/L	-0.0000003	0.0001474	0.10	0.0999	0.0985	0.103	0.085 to 0.115	99.9	70 to 130	1.41	20
BA14948	Arsenic, Total	mg/L	-0.0000506	0.0001474	0.10	0.100	0.0997	0.101	0.085 to 0.115	100	70 to 130	0.300	20
BA14948	Calcium, Total	mg/L	0.00843	0.1518	5.00	5.13	5.09	5.18	4.25 to 5.75	103	70 to 130	0.783	20
BA14948	Chromium, Total	mg/L	-0.0000185	0.00044	0.10	0.0985	0.0991	0.0988	0.085 to 0.115	98.5	70 to 130	0.607	20
BA14948	Mercury, Total by CVAA	mg/L	0.000150	0.0005	0.004	0.00387	0.00390	0.00388	0.0034 to 0.0046	96.8	70 to 130	0.772	20
BA14948	Lead, Total	mg/L	0.00000	0.0001474	0.10	0.0969	0.0968	0.0994	0.085 to 0.115	96.9	70 to 130	0.103	20
BA14948	Boron, Total	mg/L	0.000769	0.0650254	1.00	1.01	1.01	1.03	0.85 to 1.15	101	70 to 130	0.00	20
BA14948	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0968	0.0967	0.0983	0.085 to 0.115	96.8	70 to 130	0.103	20
BA14948	Magnesium, Total	mg/L	-0.00205	0.0462	5.00	5.13	5.07	5.13	4.25 to 5.75	103	70 to 130	1.18	20
BA14948	Selenium, Total	mg/L	-0.0000246	0.001	0.10	0.100	0.0997	0.101	0.085 to 0.115	100	70 to 130	0.300	20
BA14948	Beryllium, Total	mg/L	0.0000128	0.00088	0.10	0.0884	0.0896	0.0865	0.085 to 0.115	88.4	70 to 130	1.35	20
BA14948	Cobalt, Total	mg/L	-0.0000049	0.0001474	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA14948	Iron, Total	mg/L	0.00127	0.0176	0.2	0.207	0.207	0.208	0.17 to 0.23	104	70 to 130	0.00	20
BA14946	Iron, Dissolved	mg/L	0.000401	0.0176	0.2	0.229	0.227	0.205	0.17 to 0.23	103	70 to 130	0.877	20
BA14948	Potassium, Total	mg/L	-0.00431	0.3674	10.0	9.94	10.0	10.0	8.5 to 11.5	99.4	70 to 130	0.602	20
BA14948	Lithium, Total	mg/L	0.0000832	0.0154	0.200	0.190	0.189	0.193	0.17 to 0.23	95.0	70 to 130	0.528	20
BA14948	Molybdenum, Total	mg/L	0.0000162	0.0001474	0.10	0.0982	0.0998	0.0988	0.085 to 0.115	98.2	70 to 130	1.62	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 09:00
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-52HO

Laboratory ID Number: BA14945

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14948	Sulfate	mg/L	-0.315	0.50	20.0	19.3	-0.381	19.5	18 to 22	96.5	80 to 120	0.00	20
BA14946	Solids, Dissolved	mg/L	2.00	25			460	53.0	40 to 60			1.32	5
BA14948	Fluoride	mg/L	0.0243	0.05	2.50	2.64	0.0147	2.63	2.25 to 2.75	106	80 to 120	0.00	20
BA14946	Alkalinity, Total as CaCO3	mg/L					260	48.7	45.0 to 55.0			1.90	10
BA14948	Chloride	mg/L	0.0484	0.50	10.0	10.2	0.142	10.2	9 to 11	102	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP
Collected: 8/11/20 09:00
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14946

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:39		1.015	1.25	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 12:07		10.15	71.5	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 11:39		1.015	0.513	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 11:39		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 11:39		1.015	14.1	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 12:07		10.15	86.9	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 10:33		1.015	0.0231	mg/L	0.02	0.05	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:13	8/14/20 13:46		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:13	8/14/20 13:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:13	8/14/20 13:46		1.015	0.116	mg/L	0.002	0.01	
* Beryllium, Total	8/13/20 14:13	8/14/20 13:46		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:13	8/14/20 13:46		1.015	0.000354	mg/L	0.0003	0.001	J
* Chromium, Total	8/13/20 14:13	8/14/20 13:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:13	8/14/20 13:46		1.015	0.0133	mg/L	0.002	0.005	
* Lead, Total	8/13/20 14:13	8/14/20 13:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:13	8/14/20 13:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/13/20 14:13	8/14/20 13:46		1.015	3.58	mg/L	0.3	2.5	
* Manganese, Total	8/13/20 14:13	8/14/20 14:57		10.15	8.93	mg/L	0.01015	0.05075	
* Selenium, Total	8/13/20 14:13	8/14/20 13:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:13	8/14/20 13:46		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/17/20 07:45	8/17/20 12:21		10.15	9.49	mg/L	0.01015	0.05075	RA
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 12:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 13:40	8/25/20 13:50		1	265	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/14/20 17:00	8/19/20 11:40		1	448	mg/L		50	

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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-52HO DUP

Location Code: WMWGREAP
Collected: 8/11/20 09:00
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14946

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 13:40	8/25/20 13:50		1	265	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 13:40	8/25/20 13:50		1	0.05	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/18/20 11:43	8/18/20 11:43		10	89.4	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 14:06	8/20/20 14:06		1	0.0627	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 17:15	8/25/20 17:15		4	65.5	mg/L	2.00	4	
Analytical Method: Field Measurements		***Analyst: DKG***							
Conductivity	8/11/20 08:56	8/11/20 08:56			804.48	uS/cm			FA
pH	8/11/20 08:56	8/11/20 08:56			6.08	SU			FA
Temperature	8/11/20 08:56	8/11/20 08:56			18.78	C			FA
Turbidity	8/11/20 08:56	8/11/20 08:56			7.89	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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 09:00
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BA14946

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14948	Barium, Total	mg/L	-0.0000178	0.0002	0.10	0.0944	0.0971	0.0927	0.085 to 0.115	94.4	70 to 130	2.82	20
BA14948	Manganese, Total	mg/L	0.0000322	0.0001474	0.10	0.0999	0.0992	0.101	0.085 to 0.115	99.9	70 to 130	0.703	20
BA14948	Antimony, Total	mg/L	0.000141	0.001	0.10	0.0957	0.0954	0.0930	0.085 to 0.115	95.7	70 to 130	0.314	20
BA14946	Iron, Dissolved	mg/L	0.000401	0.0176	0.2	0.229	0.227	0.205	0.17 to 0.23	103	70 to 130	0.877	20
BA14948	Potassium, Total	mg/L	-0.00431	0.3674	10.0	9.94	10.0	10.0	8.5 to 11.5	99.4	70 to 130	0.602	20
BA14948	Lithium, Total	mg/L	0.0000832	0.0154	0.200	0.190	0.189	0.193	0.17 to 0.23	95.0	70 to 130	0.528	20
BA14948	Molybdenum, Total	mg/L	0.0000162	0.0001474	0.10	0.0982	0.0998	0.0988	0.085 to 0.115	98.2	70 to 130	1.62	20
BA14948	Boron, Total	mg/L	0.000769	0.0650254	1.00	1.01	1.01	1.03	0.85 to 1.15	101	70 to 130	0.00	20
BA14948	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0968	0.0967	0.0983	0.085 to 0.115	96.8	70 to 130	0.103	20
BA14948	Magnesium, Total	mg/L	-0.00205	0.0462	5.00	5.13	5.07	5.13	4.25 to 5.75	103	70 to 130	1.18	20
BA14948	Selenium, Total	mg/L	-0.0000246	0.001	0.10	0.100	0.0997	0.101	0.085 to 0.115	100	70 to 130	0.300	20
BA14948	Arsenic, Total	mg/L	-0.0000506	0.0001474	0.10	0.100	0.0997	0.101	0.085 to 0.115	100	70 to 130	0.300	20
BA14948	Calcium, Total	mg/L	0.00843	0.1518	5.00	5.13	5.09	5.18	4.25 to 5.75	103	70 to 130	0.783	20
BA14948	Chromium, Total	mg/L	-0.0000185	0.00044	0.10	0.0985	0.0991	0.0988	0.085 to 0.115	98.5	70 to 130	0.607	20
BA14948	Mercury, Total by CVAA	mg/L	0.000150	0.0005	0.004	0.00387	0.00390	0.00388	0.0034 to 0.0046	96.8	70 to 130	0.772	20
BA14948	Lead, Total	mg/L	0.00000	0.0001474	0.10	0.0969	0.0968	0.0994	0.085 to 0.115	96.9	70 to 130	0.103	20
BA14948	Beryllium, Total	mg/L	0.0000128	0.00088	0.10	0.0884	0.0896	0.0865	0.085 to 0.115	88.4	70 to 130	1.35	20
BA14948	Cobalt, Total	mg/L	-0.0000049	0.0001474	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA14948	Iron, Total	mg/L	0.00127	0.0176	0.2	0.207	0.207	0.208	0.17 to 0.23	104	70 to 130	0.00	20
BA14946	Manganese, Dissolved	mg/L	0.0000652	0.0001474	0.10	9.52	9.66	0.104	0.085 to 0.115	30.0	70 to 130	1.46	20
BA14948	Sodium, Total	mg/L	0.00154	0.044	5.00	5.18	5.15	5.26	4.25 to 5.75	104	70 to 130	0.581	20
BA14948	Thallium, Total	mg/L	-0.0000003	0.0001474	0.10	0.0999	0.0985	0.103	0.085 to 0.115	99.9	70 to 130	1.41	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 09:00
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-52HO DUP

Laboratory ID Number: BA14946

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14948	Sulfate	mg/L	-0.315	0.50	20.0	19.3	-0.381	19.5	18 to 22	96.5	80 to 120	0.00	20
BA14946	Solids, Dissolved	mg/L	2.00	25			460	53.0	40 to 60			1.32	5
BA14948	Fluoride	mg/L	0.0243	0.05	2.50	2.64	0.0147	2.63	2.25 to 2.75	106	80 to 120	0.00	20
BA14946	Alkalinity, Total as CaCO3	mg/L					260	48.7	45.0 to 55.0			1.90	10
BA14948	Chloride	mg/L	0.0484	0.50	10.0	10.2	0.142	10.2	9 to 11	102	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 8/11/20 09:30
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14947

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:42		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 11:42		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 11:42		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 11:42		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 11:42		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 11:42		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:13	8/14/20 14:03		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 12:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/14/20 17:00	8/19/20 11:40		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/18/20 11:45	8/18/20 11:45		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/20/20 14:07	8/20/20 14:07		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 17:16	8/25/20 17:16		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 8/11/20 09:30
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA14947

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14948	Barium, Total	mg/L	-0.0000178	0.0002	0.10	0.0944	0.0971	0.0927	0.085 to 0.115	94.4	70 to 130	2.82	20
BA14948	Manganese, Total	mg/L	0.0000322	0.0001474	0.10	0.0999	0.0992	0.101	0.085 to 0.115	99.9	70 to 130	0.703	20
BA14948	Sodium, Total	mg/L	0.00154	0.044	5.00	5.18	5.15	5.26	4.25 to 5.75	104	70 to 130	0.581	20
BA14948	Thallium, Total	mg/L	-0.0000003	0.0001474	0.10	0.0999	0.0985	0.103	0.085 to 0.115	99.9	70 to 130	1.41	20
BA14948	Potassium, Total	mg/L	-0.00431	0.3674	10.0	9.94	10.0	10.0	8.5 to 11.5	99.4	70 to 130	0.602	20
BA14948	Lithium, Total	mg/L	0.0000832	0.0154	0.200	0.190	0.189	0.193	0.17 to 0.23	95.0	70 to 130	0.528	20
BA14948	Molybdenum, Total	mg/L	0.0000162	0.0001474	0.10	0.0982	0.0998	0.0988	0.085 to 0.115	98.2	70 to 130	1.62	20
BA14948	Arsenic, Total	mg/L	-0.0000506	0.0001474	0.10	0.100	0.0997	0.101	0.085 to 0.115	100	70 to 130	0.300	20
BA14948	Calcium, Total	mg/L	0.00843	0.1518	5.00	5.13	5.09	5.18	4.25 to 5.75	103	70 to 130	0.783	20
BA14948	Chromium, Total	mg/L	-0.0000185	0.00044	0.10	0.0985	0.0991	0.0988	0.085 to 0.115	98.5	70 to 130	0.607	20
BA14948	Mercury, Total by CVAA	mg/L	0.000150	0.0005	0.004	0.00387	0.00390	0.00388	0.0034 to 0.0046	96.8	70 to 130	0.772	20
BA14948	Lead, Total	mg/L	0.00000	0.0001474	0.10	0.0969	0.0968	0.0994	0.085 to 0.115	96.9	70 to 130	0.103	20
BA14948	Boron, Total	mg/L	0.000769	0.0650254	1.00	1.01	1.01	1.03	0.85 to 1.15	101	70 to 130	0.00	20
BA14948	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0968	0.0967	0.0983	0.085 to 0.115	96.8	70 to 130	0.103	20
BA14948	Magnesium, Total	mg/L	-0.00205	0.0462	5.00	5.13	5.07	5.13	4.25 to 5.75	103	70 to 130	1.18	20
BA14948	Selenium, Total	mg/L	-0.0000246	0.001	0.10	0.100	0.0997	0.101	0.085 to 0.115	100	70 to 130	0.300	20
BA14948	Beryllium, Total	mg/L	0.0000128	0.00088	0.10	0.0884	0.0896	0.0865	0.085 to 0.115	88.4	70 to 130	1.35	20
BA14948	Cobalt, Total	mg/L	-0.0000049	0.0001474	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA14948	Iron, Total	mg/L	0.00127	0.0176	0.2	0.207	0.207	0.208	0.17 to 0.23	104	70 to 130	0.00	20
BA14948	Antimony, Total	mg/L	0.000141	0.001	0.10	0.0957	0.0954	0.0930	0.085 to 0.115	95.7	70 to 130	0.314	20

Comments:

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 8/11/20 09:30
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA14947

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14948	Sulfate	mg/L	-0.315	0.50	20.0	19.3	-0.381	19.5	18 to 22	96.5	80 to 120	0.00	20
BA14948	Chloride	mg/L	0.0484	0.50	10.0	10.2	0.142	10.2	9 to 11	102	80 to 120	0.00	20
BA14946	Solids, Dissolved	mg/L	2.00	25			460	53.0	40 to 60			1.32	5
BA14948	Fluoride	mg/L	0.0243	0.05	2.50	2.64	0.0147	2.63	2.25 to 2.75	106	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 8/11/20 09:40
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14948

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:45		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 11:45		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 11:45		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 11:45		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 11:45		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 11:45		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:13	8/14/20 14:06		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 12:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/14/20 17:00	8/19/20 11:40		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/18/20 11:46	8/18/20 11:46		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/20/20 14:08	8/20/20 14:08		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 17:17	8/25/20 17:17		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 8/11/20 09:40
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA14948

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14948	Manganese, Total	mg/L	0.0000322	0.0001474	0.10	0.0999	0.0992	0.101	0.085 to 0.115	99.9	70 to 130	0.703	20
BA14948	Antimony, Total	mg/L	0.000141	0.001	0.10	0.0957	0.0954	0.0930	0.085 to 0.115	95.7	70 to 130	0.314	20
BA14948	Barium, Total	mg/L	-0.0000178	0.0002	0.10	0.0944	0.0971	0.0927	0.085 to 0.115	94.4	70 to 130	2.82	20
BA14948	Potassium, Total	mg/L	-0.00431	0.3674	10.0	9.94	10.0	10.0	8.5 to 11.5	99.4	70 to 130	0.602	20
BA14948	Lithium, Total	mg/L	0.0000832	0.0154	0.200	0.190	0.189	0.193	0.17 to 0.23	95.0	70 to 130	0.528	20
BA14948	Molybdenum, Total	mg/L	0.0000162	0.0001474	0.10	0.0982	0.0998	0.0988	0.085 to 0.115	98.2	70 to 130	1.62	20
BA14948	Sodium, Total	mg/L	0.00154	0.044	5.00	5.18	5.15	5.26	4.25 to 5.75	104	70 to 130	0.581	20
BA14948	Thallium, Total	mg/L	-0.0000003	0.0001474	0.10	0.0999	0.0985	0.103	0.085 to 0.115	99.9	70 to 130	1.41	20
BA14948	Boron, Total	mg/L	0.000769	0.0650254	1.00	1.01	1.01	1.03	0.85 to 1.15	101	70 to 130	0.00	20
BA14948	Cadmium, Total	mg/L	0.00000	0.0001474	0.10	0.0968	0.0967	0.0983	0.085 to 0.115	96.8	70 to 130	0.103	20
BA14948	Magnesium, Total	mg/L	-0.00205	0.0462	5.00	5.13	5.07	5.13	4.25 to 5.75	103	70 to 130	1.18	20
BA14948	Selenium, Total	mg/L	-0.0000246	0.001	0.10	0.100	0.0997	0.101	0.085 to 0.115	100	70 to 130	0.300	20
BA14948	Beryllium, Total	mg/L	0.0000128	0.00088	0.10	0.0884	0.0896	0.0865	0.085 to 0.115	88.4	70 to 130	1.35	20
BA14948	Cobalt, Total	mg/L	-0.0000049	0.0001474	0.10	0.101	0.0994	0.101	0.085 to 0.115	101	70 to 130	1.60	20
BA14948	Iron, Total	mg/L	0.00127	0.0176	0.2	0.207	0.207	0.208	0.17 to 0.23	104	70 to 130	0.00	20
BA14948	Arsenic, Total	mg/L	-0.0000506	0.0001474	0.10	0.100	0.0997	0.101	0.085 to 0.115	100	70 to 130	0.300	20
BA14948	Calcium, Total	mg/L	0.00843	0.1518	5.00	5.13	5.09	5.18	4.25 to 5.75	103	70 to 130	0.783	20
BA14948	Chromium, Total	mg/L	-0.0000185	0.00044	0.10	0.0985	0.0991	0.0988	0.085 to 0.115	98.5	70 to 130	0.607	20
BA14948	Mercury, Total by CVAA	mg/L	0.000150	0.0005	0.004	0.00387	0.00390	0.00388	0.0034 to 0.0046	96.8	70 to 130	0.772	20
BA14948	Lead, Total	mg/L	0.00000	0.0001474	0.10	0.0969	0.0968	0.0994	0.085 to 0.115	96.9	70 to 130	0.103	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 8/11/20 09:40
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA14948

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14948	Sulfate	mg/L	-0.315	0.50	20.0	19.3	-0.381	19.5	18 to 22	96.5	80 to 120	0.00	20
BA14948	Chloride	mg/L	0.0484	0.50	10.0	10.2	0.142	10.2	9 to 11	102	80 to 120	0.00	20
BA14946	Solids, Dissolved	mg/L	2.00	25			460	53.0	40 to 60			1.32	5
BA14948	Fluoride	mg/L	0.0243	0.05	2.50	2.64	0.0147	2.63	2.25 to 2.75	106	80 to 120	0.00	20

Comments:

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

Definitions

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.
HT	Analysis was performed outside of the analytical holding time.
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 ☐ Outside Lab

☑ Lab Complete

Lab ETA 08/12/2020 10:01

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Dissolved Meta	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	08/11/2020	09:00	6	Groundwater		BA14945
MW-52HO dup	08/11/2020	09:00	6	Groundwater		BA14946
FB-1	08/11/2020	09:30	4	Field Blank		BA14947
EB-1	08/11/2020	09:40	4	Equipment Blank		BA14948

Relinquished By	Received By	Date/Time
		08/12/2020 06:56
		08/12/2020 10:13

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1293

All metals and radiological bottles have pH < 2 ☑

Cooler Temp	0.1 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8129-45506-2-1

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 08/12/2020 10:05

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	Dallas Gentry	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-52HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-52HO	08/11/2020	09:00	3	Groundwater		BA14949
MW-52HO dup	08/11/2020	09:00	1	Groundwater		BA14950
FB-1	08/11/2020	09:30	1	Field Blank		BA14951
EB-1	08/11/2020	09:40	1	Equipment Blank		BA14952

Relinquished By	Received By	Date/Time
		08/12/2020 07:02
		08/12/2020 10:22

SmarTroll ID	7586-41446-5-5
Turbidity ID	7081-38476-1-1
Sample Event	1293

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-192168-3
Laboratory SDG: Plant Greene County Ash Pond 1293
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Authorized for release by:
9/18/2020 11:50:42 AM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.com

LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-192168-3

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-192168-3

RAD

Method 9315: Radium-226 prep batch 160-479632. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA 14949 MW-52HO (400-192168-9), BA 14949 MW-52HO (400-192168-9[MS]), BA 14949 MW-52HO (400-192168-9[MSD]), BA 14950 MW-52HO DUP (400-192168-10), BA 14951 FB-1 (400-192168-11), BA 14952 EB-1 (400-192168-12), (LCS 160-479632/1-A) and (MB 160-479632/24-A)

Method 9320: Radium-228 prep batch 160-479635. The Ra-228 matrix spike duplicate (MSD) is recovering (175%) outside of the control limits of (150%). Sample matrix interference and/or non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. Due to high spike recovery in the matrix spike duplicate (MSD), the RER/RPD is outside of limits. The laboratory control sample (LCS) and two other sets of matrix spike/matrix spike duplicate (MS/MSD) samples all fall within quality control criteria demonstrating acceptable preparation and instrument performance. The data have been reported with this narrative. (400-192168-A-4-F MSD)

Method 9320: Radium-228 prep batch 160-479635. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA 14949 MW-52HO (400-192168-9), BA 14949 MW-52HO (400-192168-9[MS]), BA 14949 MW-52HO (400-192168-9[MSD]), BA 14950 MW-52HO DUP (400-192168-10), BA 14951 FB-1 (400-192168-11), BA 14952 EB-1 (400-192168-12), (LCS 160-479635/1-A), (MB 160-479635/24-A), (400-192168-A-4-D), (400-192168-A-4-E MS), (400-192168-A-4-F MSD), (400-192168-A-13-D), (400-192168-A-13-E MS) and (400-192168-A-13-F MSD)

Method PrecSep_0: Radium 228 Prep Batch 160-479635. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA 14949 MW-52HO (400-192168-9), BA 14949 MW-52HO (400-192168-9[MS]), BA 14949 MW-52HO (400-192168-9[MSD]), BA 14950 MW-52HO DUP (400-192168-10), BA 14951 FB-1 (400-192168-11) and BA 14952 EB-1 (400-192168-12).

Method PrecSep-21: Radium 226 Prep Batch 160-479632. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA 14949 MW-52HO (400-192168-9), BA 14949 MW-52HO (400-192168-9[MS]), BA 14949 MW-52HO (400-192168-9[MSD]), BA 14950 MW-52HO DUP (400-192168-10), BA 14951 FB-1 (400-192168-11) and BA 14952 EB-1 (400-192168-12).

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-192168-9	BA 14949 MW-52HO	Water	08/11/20 09:00	08/14/20 12:15	
400-192168-10	BA 14950 MW-52HO DUP	Water	08/11/20 09:00	08/14/20 12:15	
400-192168-11	BA 14951 FB-1	Water	08/11/20 09:30	08/14/20 12:15	
400-192168-12	BA 14952 EB-1	Water	08/11/20 09:40	08/14/20 12:15	

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Client Sample ID: BA 14949 MW-52HO

Lab Sample ID: 400-192168-9

Date Collected: 08/11/20 09:00
Matrix: Water
Date Received: 08/14/20 12:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.406**		0.147	0.151	1.00	0.138	pCi/L	08/17/20 15:49	09/09/20 18:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*40 - 110*	*08/17/20 15:49*	*09/09/20 18:57*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.372	U	0.335	0.337	1.00	0.536	pCi/L	08/17/20 16:16	09/02/20 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*
Y Carrier	*84.1*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:16*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.777**		0.366	0.369	5.00	0.536	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Client Sample ID: BA 14950 MW-52HO DUP

Lab Sample ID: 400-192168-10

Date Collected: 08/11/20 09:00
Matrix: Water
Date Received: 08/14/20 12:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.280**		0.127	0.129	1.00	0.134	pCi/L	08/17/20 15:49	09/09/20 18:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.0*		*40 - 110*	*08/17/20 15:49*	*09/09/20 18:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.233	U	0.379	0.379	1.00	0.639	pCi/L	08/17/20 16:16	09/02/20 12:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.0*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:20*	*1*
Y Carrier	*81.9*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:20*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.513	U	0.400	0.400	5.00	0.639	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Client Sample ID: BA 14951 FB-1

Date Collected: 08/11/20 09:30
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-11

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0101	U	0.0598	0.0598	1.00	0.123	pCi/L	08/17/20 15:49	09/09/20 18:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*40 - 110*	*08/17/20 15:49*	*09/09/20 18:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.453	U	0.352	0.354	1.00	0.555	pCi/L	08/17/20 16:16	09/02/20 12:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:21*	*1*
Y Carrier	*84.5*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:21*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.463	U	0.357	0.359	5.00	0.555	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Client Sample ID: BA 14952 EB-1

Date Collected: 08/11/20 09:40
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-12

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00208	U	0.0577	0.0577	1.00	0.125	pCi/L	08/17/20 15:49	09/09/20 18:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.4*		*40 - 110*	*08/17/20 15:49*	*09/09/20 18:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.121	U	0.397	0.397	1.00	0.686	pCi/L	08/17/20 16:16	09/02/20 12:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.4*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*
Y Carrier	*81.1*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.123	U	0.401	0.401	5.00	0.686	pCi/L		09/15/20 13:53	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Job ID: 400-192168-3
Project/Site: CCR Plant Greene
SDG: Plant Greene County Ash Pond 1293

Qualifiers

Rad

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
F1	MS and/or MSD recovery exceeds control limits.
U	Result is less than the sample detection limit.

Glossary

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

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Client Sample ID: BA 14949 MW-52HO
Lab Sample ID: 400-192168-9

Date Collected: 08/11/20 09:00
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 18:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481340	09/02/20 12:16	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14950 MW-52HO DUP
Lab Sample ID: 400-192168-10

Date Collected: 08/11/20 09:00
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 18:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481341	09/02/20 12:20	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14951 FB-1
Lab Sample ID: 400-192168-11

Date Collected: 08/11/20 09:30
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 18:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481341	09/02/20 12:21	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14952 EB-1
Lab Sample ID: 400-192168-12

Date Collected: 08/11/20 09:40
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 18:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481341	09/02/20 12:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Rad

Prep Batch: 479632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192168-9	BA 14949 MW-52HO	Total/NA	Water	PrecSep-21	
400-192168-10	BA 14950 MW-52HO DUP	Total/NA	Water	PrecSep-21	
400-192168-11	BA 14951 FB-1	Total/NA	Water	PrecSep-21	
400-192168-12	BA 14952 EB-1	Total/NA	Water	PrecSep-21	
MB 160-479632/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-479632/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-192168-9 MS	BA 14949 MW-52HO	Total/NA	Water	PrecSep-21	
400-192168-9 MSD	BA 14949 MW-52HO	Total/NA	Water	PrecSep-21	

Prep Batch: 479635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192168-9	BA 14949 MW-52HO	Total/NA	Water	PrecSep_0	
400-192168-10	BA 14950 MW-52HO DUP	Total/NA	Water	PrecSep_0	
400-192168-11	BA 14951 FB-1	Total/NA	Water	PrecSep_0	
400-192168-12	BA 14952 EB-1	Total/NA	Water	PrecSep_0	
MB 160-479635/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-479635/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-192168-9 MS	BA 14949 MW-52HO	Total/NA	Water	PrecSep_0	
400-192168-9 MSD	BA 14949 MW-52HO	Total/NA	Water	PrecSep_0	
400-192168-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
400-192168-A-13-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
400-192168-A-13-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-479632/24-A
Matrix: Water
Analysis Batch: 481785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479632

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04309	U	0.0776	0.0777	1.00	0.137	pCi/L	08/17/20 15:49	09/09/20 21:19	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*08/17/20 15:49*	*09/09/20 21:19*	*1*

Lab Sample ID: LCS 160-479632/1-A
Matrix: Water
Analysis Batch: 481785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479632

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	12.76		1.36	1.00	0.125	pCi/L	84	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.9*		*40 - 110*

Lab Sample ID: 400-192168-9 MS
Matrix: Water
Analysis Batch: 481785

Client Sample ID: BA 14949 MW-52HO
Prep Type: Total/NA
Prep Batch: 479632

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.406		15.1	12.67		1.35	1.00	0.121	pCi/L	81	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*87.0*		*40 - 110*

Lab Sample ID: 400-192168-9 MSD
Matrix: Water
Analysis Batch: 481785

Client Sample ID: BA 14949 MW-52HO
Prep Type: Total/NA
Prep Batch: 479632

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.406		15.1	12.91		1.36	1.00	0.117	pCi/L	83	75 - 138	0.09	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*93.1*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-479635/24-A
Matrix: Water
Analysis Batch: 481341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479635

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3462	U	0.277	0.279	1.00	0.438	pCi/L	08/17/20 16:16	09/02/20 12:22	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110	08/17/20 16:16	09/02/20 12:22	1
Y Carrier	93.8		40 - 110	08/17/20 16:16	09/02/20 12:22	1

Lab Sample ID: LCS 160-479635/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			10.5	9.883		1.25	1.00	0.620	pCi/L	95	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.9		40 - 110
Y Carrier	81.5		40 - 110

Lab Sample ID: 400-192168-9 MS — **Client Sample ID: BA 14949 MW-52HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.372	U	10.5	8.723		1.14	1.00	0.549	pCi/L	80	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	87.0		40 - 110
Y Carrier	84.9		40 - 110

Lab Sample ID: 400-192168-9 MSD — **Client Sample ID: BA 14949 MW-52HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.372	U	10.5	9.245		1.17	1.00	0.542	pCi/L	85	45 - 150	0.23	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	93.1		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: 400-192168-A-4-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.176	U F	10.5	18.55	F1 F	2.45	1.00	1.26	pCi/L	175	45 - 150	1.86	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	44.1		40 - 110
Y Carrier	76.3		40 - 110

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

Lab Sample ID: 400-192168-A-13-E MS
Matrix: Water
Analysis Batch: 481341

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 479635

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.362	U	10.5	8.577		1.11	1.00	0.503	pCi/L	79	45 - 150		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*86.1*		*40 - 110*
Y Carrier	*87.1*		*40 - 110*

Lab Sample ID: 400-192168-A-13-F MSD
Matrix: Water
Analysis Batch: 481341

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 479635

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.362	U	10.5	9.091		1.16	1.00	0.541	pCi/L	83	45 - 150	0.23	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*86.7*		*40 - 110*
Y Carrier	*89.7*		*40 - 110*

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler: Dallas Gentry	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-58525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #:
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #:			
Email: lbmidkiff@southernco.com	WO #:			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1293	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra228Ra226_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA14949	8/11/20	09:00	G	Water		X				X	3	MW-52HO
BA14950	8/11/20	09:00	G	Water						X	1	MW-52HO DUP (Sample Duplicate)
BA14951	8/11/20	09:30	G	Water						X	1	FB-1 (Field Blank)
BA14952	8/11/20	09:40	G	Water						X	1	EB-1 (Equipment Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 4404A | Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Laura Midkiff	Date/Time: 08/12/2020 15:30	Water APC	Received by:	Date/Time: 8/14/20 1215	Company: TAPC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver 09/20/2016

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-192168-3
SDG Number: Plant Greene County Ash Pond 1293

Login Number: 192168
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	25.6°C, 26.9°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-192168-3
SDG Number: Plant Greene County Ash Pond 1293

Login Number: 192168
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/15/20 11:57 AM

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

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-3
SDG: Plant Greene County Ash Pond 1293

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-52HO	8/11/2020 7:16	Conductivity	817.1	uS/cm
GC-AP-MW-52HO	8/11/2020 7:16	DO	0.48	mg/L
GC-AP-MW-52HO	8/11/2020 7:16	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 7:16	Oxidation Reduction Potention	75.92	mv
GC-AP-MW-52HO	8/11/2020 7:16	pH	5.89	pH
GC-AP-MW-52HO	8/11/2020 7:16	Temperature	18.81	C
GC-AP-MW-52HO	8/11/2020 7:16	Turbidity	18	NTU
GC-AP-MW-52HO	8/11/2020 7:21	Conductivity	799.81	uS/cm
GC-AP-MW-52HO	8/11/2020 7:21	DO	0.31	mg/L
GC-AP-MW-52HO	8/11/2020 7:21	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 7:21	Oxidation Reduction Potention	86.23	mv
GC-AP-MW-52HO	8/11/2020 7:21	pH	5.97	pH
GC-AP-MW-52HO	8/11/2020 7:21	Temperature	18.7	C
GC-AP-MW-52HO	8/11/2020 7:21	Turbidity	60	NTU
GC-AP-MW-52HO	8/11/2020 7:26	Conductivity	799.37	uS/cm
GC-AP-MW-52HO	8/11/2020 7:26	DO	0.24	mg/L
GC-AP-MW-52HO	8/11/2020 7:26	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 7:26	Oxidation Reduction Potention	94.6	mv
GC-AP-MW-52HO	8/11/2020 7:26	pH	6.02	pH
GC-AP-MW-52HO	8/11/2020 7:26	Temperature	18.69	C
GC-AP-MW-52HO	8/11/2020 7:26	Turbidity	25	NTU
GC-AP-MW-52HO	8/11/2020 7:31	Conductivity	800.42	uS/cm
GC-AP-MW-52HO	8/11/2020 7:31	DO	0.22	mg/L
GC-AP-MW-52HO	8/11/2020 7:31	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 7:31	Oxidation Reduction Potention	99.77	mv
GC-AP-MW-52HO	8/11/2020 7:31	pH	6.04	pH
GC-AP-MW-52HO	8/11/2020 7:31	Temperature	18.69	C
GC-AP-MW-52HO	8/11/2020 7:31	Turbidity	41	NTU
GC-AP-MW-52HO	8/11/2020 7:36	Conductivity	799.66	uS/cm
GC-AP-MW-52HO	8/11/2020 7:36	DO	0.2	mg/L
GC-AP-MW-52HO	8/11/2020 7:36	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 7:36	Oxidation Reduction Potention	103.43	mv
GC-AP-MW-52HO	8/11/2020 7:36	pH	6.06	pH
GC-AP-MW-52HO	8/11/2020 7:36	Temperature	18.71	C
GC-AP-MW-52HO	8/11/2020 7:36	Turbidity	31.4	NTU
GC-AP-MW-52HO	8/11/2020 7:41	Conductivity	799.31	uS/cm
GC-AP-MW-52HO	8/11/2020 7:41	DO	0.19	mg/L
GC-AP-MW-52HO	8/11/2020 7:41	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 7:41	Oxidation Reduction Potention	106.79	mv
GC-AP-MW-52HO	8/11/2020 7:41	pH	6.07	pH
GC-AP-MW-52HO	8/11/2020 7:41	Temperature	18.69	C
GC-AP-MW-52HO	8/11/2020 7:41	Turbidity	23.7	NTU
GC-AP-MW-52HO	8/11/2020 7:46	Conductivity	798.86	uS/cm
GC-AP-MW-52HO	8/11/2020 7:46	DO	0.18	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-52HO	8/11/2020 7:46	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 7:46	Oxidation Reduction Potention	109.84	mv
GC-AP-MW-52HO	8/11/2020 7:46	pH	6.08	pH
GC-AP-MW-52HO	8/11/2020 7:46	Temperature	18.71	C
GC-AP-MW-52HO	8/11/2020 7:46	Turbidity	20.6	NTU
GC-AP-MW-52HO	8/11/2020 7:51	Conductivity	797.3	uS/cm
GC-AP-MW-52HO	8/11/2020 7:51	DO	0.18	mg/L
GC-AP-MW-52HO	8/11/2020 7:51	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 7:51	Oxidation Reduction Potention	112.5	mv
GC-AP-MW-52HO	8/11/2020 7:51	pH	6.09	pH
GC-AP-MW-52HO	8/11/2020 7:51	Temperature	18.65	C
GC-AP-MW-52HO	8/11/2020 7:51	Turbidity	19	NTU
GC-AP-MW-52HO	8/11/2020 7:56	Conductivity	799.2	uS/cm
GC-AP-MW-52HO	8/11/2020 7:56	DO	0.17	mg/L
GC-AP-MW-52HO	8/11/2020 7:56	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 7:56	Oxidation Reduction Potention	114.56	mv
GC-AP-MW-52HO	8/11/2020 7:56	pH	6.09	pH
GC-AP-MW-52HO	8/11/2020 7:56	Temperature	18.69	C
GC-AP-MW-52HO	8/11/2020 7:56	Turbidity	18.7	NTU
GC-AP-MW-52HO	8/11/2020 8:01	Conductivity	800.3	uS/cm
GC-AP-MW-52HO	8/11/2020 8:01	DO	0.17	mg/L
GC-AP-MW-52HO	8/11/2020 8:01	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:01	Oxidation Reduction Potention	116.89	mv
GC-AP-MW-52HO	8/11/2020 8:01	pH	6.09	pH
GC-AP-MW-52HO	8/11/2020 8:01	Temperature	18.7	C
GC-AP-MW-52HO	8/11/2020 8:01	Turbidity	14.9	NTU
GC-AP-MW-52HO	8/11/2020 8:06	Conductivity	800.06	uS/cm
GC-AP-MW-52HO	8/11/2020 8:06	DO	0.16	mg/L
GC-AP-MW-52HO	8/11/2020 8:06	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:06	Oxidation Reduction Potention	117.92	mv
GC-AP-MW-52HO	8/11/2020 8:06	pH	6.08	pH
GC-AP-MW-52HO	8/11/2020 8:06	Temperature	18.72	C
GC-AP-MW-52HO	8/11/2020 8:06	Turbidity	14.1	NTU
GC-AP-MW-52HO	8/11/2020 8:11	Conductivity	800.77	uS/cm
GC-AP-MW-52HO	8/11/2020 8:11	DO	0.16	mg/L
GC-AP-MW-52HO	8/11/2020 8:11	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:11	Oxidation Reduction Potention	119.01	mv
GC-AP-MW-52HO	8/11/2020 8:11	pH	6.08	pH
GC-AP-MW-52HO	8/11/2020 8:11	Temperature	18.66	C
GC-AP-MW-52HO	8/11/2020 8:11	Turbidity	12.4	NTU
GC-AP-MW-52HO	8/11/2020 8:16	Conductivity	803.25	uS/cm
GC-AP-MW-52HO	8/11/2020 8:16	DO	0.16	mg/L
GC-AP-MW-52HO	8/11/2020 8:16	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:16	Oxidation Reduction Potention	120.79	mv

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-52HO	8/11/2020 8:16	pH	6.08	pH
GC-AP-MW-52HO	8/11/2020 8:16	Temperature	18.67	C
GC-AP-MW-52HO	8/11/2020 8:16	Turbidity	13.3	NTU
GC-AP-MW-52HO	8/11/2020 8:21	Conductivity	801.07	uS/cm
GC-AP-MW-52HO	8/11/2020 8:21	DO	0.16	mg/L
GC-AP-MW-52HO	8/11/2020 8:21	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:21	Oxidation Reduction Potention	121.71	mv
GC-AP-MW-52HO	8/11/2020 8:21	pH	6.09	pH
GC-AP-MW-52HO	8/11/2020 8:21	Temperature	18.7	C
GC-AP-MW-52HO	8/11/2020 8:21	Turbidity	13.9	NTU
GC-AP-MW-52HO	8/11/2020 8:26	Conductivity	798.86	uS/cm
GC-AP-MW-52HO	8/11/2020 8:26	DO	0.15	mg/L
GC-AP-MW-52HO	8/11/2020 8:26	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:26	Oxidation Reduction Potention	123.16	mv
GC-AP-MW-52HO	8/11/2020 8:26	pH	6.1	pH
GC-AP-MW-52HO	8/11/2020 8:26	Temperature	18.68	C
GC-AP-MW-52HO	8/11/2020 8:26	Turbidity	11.7	NTU
GC-AP-MW-52HO	8/11/2020 8:31	Conductivity	799.31	uS/cm
GC-AP-MW-52HO	8/11/2020 8:31	DO	0.15	mg/L
GC-AP-MW-52HO	8/11/2020 8:31	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:31	Oxidation Reduction Potention	123.73	mv
GC-AP-MW-52HO	8/11/2020 8:31	pH	6.1	pH
GC-AP-MW-52HO	8/11/2020 8:31	Temperature	18.73	C
GC-AP-MW-52HO	8/11/2020 8:31	Turbidity	11.9	NTU
GC-AP-MW-52HO	8/11/2020 8:36	Conductivity	801.06	uS/cm
GC-AP-MW-52HO	8/11/2020 8:36	DO	0.15	mg/L
GC-AP-MW-52HO	8/11/2020 8:36	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:36	Oxidation Reduction Potention	124.88	mv
GC-AP-MW-52HO	8/11/2020 8:36	pH	6.09	pH
GC-AP-MW-52HO	8/11/2020 8:36	Temperature	18.74	C
GC-AP-MW-52HO	8/11/2020 8:36	Turbidity	11.97	NTU
GC-AP-MW-52HO	8/11/2020 8:41	Conductivity	799.74	uS/cm
GC-AP-MW-52HO	8/11/2020 8:41	DO	0.15	mg/L
GC-AP-MW-52HO	8/11/2020 8:41	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:41	Oxidation Reduction Potention	125.45	mv
GC-AP-MW-52HO	8/11/2020 8:41	pH	6.1	pH
GC-AP-MW-52HO	8/11/2020 8:41	Temperature	18.72	C
GC-AP-MW-52HO	8/11/2020 8:41	Turbidity	11.5	NTU
GC-AP-MW-52HO	8/11/2020 8:46	Conductivity	799.07	uS/cm
GC-AP-MW-52HO	8/11/2020 8:46	DO	0.15	mg/L
GC-AP-MW-52HO	8/11/2020 8:46	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:46	Oxidation Reduction Potention	126.46	mv
GC-AP-MW-52HO	8/11/2020 8:46	pH	6.1	pH
GC-AP-MW-52HO	8/11/2020 8:46	Temperature	18.72	C

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-52HO	8/11/2020 8:46	Turbidity	9.81	NTU
GC-AP-MW-52HO	8/11/2020 8:51	Conductivity	797.85	uS/cm
GC-AP-MW-52HO	8/11/2020 8:51	DO	0.15	mg/L
GC-AP-MW-52HO	8/11/2020 8:51	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:51	Oxidation Reduction Potention	127.1	mv
GC-AP-MW-52HO	8/11/2020 8:51	pH	6.12	pH
GC-AP-MW-52HO	8/11/2020 8:51	Temperature	18.75	C
GC-AP-MW-52HO	8/11/2020 8:51	Turbidity	7.77	NTU
GC-AP-MW-52HO	8/11/2020 8:56	Conductivity	804.48	uS/cm
GC-AP-MW-52HO	8/11/2020 8:56	DO	0.15	mg/L
GC-AP-MW-52HO	8/11/2020 8:56	Depth to Water Detail	8.19	ft
GC-AP-MW-52HO	8/11/2020 8:56	Oxidation Reduction Potention	129.19	mv
GC-AP-MW-52HO	8/11/2020 8:56	pH	6.08	pH
GC-AP-MW-52HO	8/11/2020 8:56	Temperature	18.78	C
GC-AP-MW-52HO	8/11/2020 8:56	Turbidity	7.89	NTU

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

MW-46HO Strong Event 2

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

Alabama Power

Sample Group : WMWGREAP_1294

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 : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

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

Alabama Power

September 14, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2020.
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, 2021

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2020.09.15 15:06:25 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2020.09.16 10:00:40 -05'00'

NELAP ACCREDITED TNI LABORATORY

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.

Alabama Power Lab & Field SERVICES

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

Case Narrative

Alabama Power

Total Metals ICP

Greene County Ash Pond

WMWGREAP_1294

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.

Sample ID	Batch ID	Project ID
BA14953	680412	WMWGREAP_1294
BA14954	680412	WMWGREAP_1294
BA14955	680412	WMWGREAP_1294
BA14956	680412	WMWGREAP_1294

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 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.
- 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:

Sample ID	Analyte	Dilution Factor
BA14953	Ca	10.15
BA14954	Ca	10.15

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

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

Case Narrative

Alabama Power

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1294

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.

Sample ID	Batch ID	Project ID
BA14953	680285	WMWGREAP_1294
BA14954	680285	WMWGREAP_1294

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 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 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. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

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

Case Narrative

Alabama Power

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1294

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.

Sample ID	Batch ID	Project ID
BA14953	680003	WMWGREAP_1294
BA14954	680003	WMWGREAP_1294
BA14955	680003	WMWGREAP_1294
BA14956	680003	WMWGREAP_1294

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.

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:

Sample ID	Analyte	Dilution Factor
BA14953	Mn	5.075
BA14954	Mn	5.075

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

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

Case Narrative

Alabama Power

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1294

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.

Sample ID	Batch ID	Project ID
BA14953	680437	WMWGREAP_1294
BA14954	680437	WMWGREAP_1294

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.

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:

Sample	Analyte	Dilution
BA14953	Mn	5.075
BA14954	Mn	5.075

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

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

Case Narrative

Alabama Power

Mercury

Greene County Ash Pond

WMWGREAP_1294

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.

Sample ID	Batch ID	Project ID
BA14953	679375	WMWGREAP_1294
BA14954	679375	WMWGREAP_1294
BA14955	679375	WMWGREAP_1294
BA14956	679375	WMWGREAP_1294

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

TDS

Greene County Ash Pond

WMWGREAP_1294

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.

Sample ID	Batch ID	Project ID
BA14953	679461	WMWGREAP_1294
BA14954	679461	WMWGREAP_1294
BA14955	679461	WMWGREAP_1294
BA14956	679461	WMWGREAP_1294

4. All of the above samples were analyzed by Standard Method 2540C.
5. All samples were 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. RPD/2 was less than 5%.
- 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:
    - BA14955
    - BA14956

Case Narrative

Anions

Greene County Ash Pond

WMWGREAP_1294

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.

Sample ID	Batch ID	Project ID
BA14953	679631, 679987, & 680239	WMWGREAP_1294
BA14954	679631, 679987, & 680239	WMWGREAP_1294
BA14955	679631, 679987, & 680239	WMWGREAP_1294
BA14956	679631, 679987, & 680239	WMWGREAP_1294

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. 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:

Sample ID	Analyte	Dilution Factor
BA14953	Sulfate	3
BA14954	Sulfate	3

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

Alkalinity

Greene County Ash Pond

WMWGREAP_1294

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.

Sample ID	Batch ID	Project ID
BA14953	680203 & 680204	WMWGREAP_1294
BA14954	680203 & 680204	WMWGREAP_1294

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were analyzed within the established hold times, except for the following:
    a. BA14953-54 were analyzed hours outside of hold time.
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.

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-46HO

Location Code: WMWGREAP
Collected: 8/11/20 08:20
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14953

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:54		1.015	0.252	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 12:10		10.15	57.8	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 11:54		1.015	0.113	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 11:54		1.015	0.0970	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 11:54		1.015	21.1	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 11:54		1.015	11.1	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 10:42		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:22	8/14/20 12:10		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:22	8/14/20 12:10		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:22	8/14/20 12:10		1.015	0.0653	mg/L	0.002	0.01	
* Beryllium, Total	8/13/20 14:22	8/14/20 12:10		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:22	8/14/20 12:10		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:22	8/14/20 12:10		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:22	8/14/20 12:10		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:22	8/14/20 12:10		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:22	8/14/20 12:10		1.015	0.0443	mg/L	0.002	0.01	
* Potassium, Total	8/13/20 14:22	8/14/20 12:10		1.015	3.99	mg/L	0.3	2.5	
* Manganese, Total	8/13/20 14:22	8/14/20 13:06		5.075	1.46	mg/L	0.005075	0.025375	
* Selenium, Total	8/13/20 14:22	8/14/20 12:10		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:22	8/14/20 12:10		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/17/20 07:51	8/17/20 12:53		5.075	1.52	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 12:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 13:20	8/25/20 13:40		1	206	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/14/20 17:00	8/19/20 11:40		1	258	mg/L		25	

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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-46HO

Location Code: WMWGREAP
Collected: 8/11/20 08:20
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14953

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 13:20	8/25/20 13:40		1	206	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 13:20	8/25/20 13:40		1	0.10	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/18/20 11:27	8/18/20 11:27		1	4.27	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 14:54	8/20/20 14:54		1	0.169	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 17:30	8/25/20 17:30		3	54.5	mg/L	1.50	3	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/11/20 08:16	8/11/20 08:16			454.13	uS/cm			FA
pH	8/11/20 08:16	8/11/20 08:16			6.38	SU			FA
Temperature	8/11/20 08:16	8/11/20 08:16			20.06	C			FA
Turbidity	8/11/20 08:16	8/11/20 08:16			8.46	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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 08:20
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BA14953

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14956	Chromium, Total	mg/L	-0.0000122	0.00044	0.10	0.0979	0.0982	0.100	0.085 to 0.115	97.9	70 to 130	0.306	20
BA14956	Cadmium, Total	mg/L	0.0000062	0.0001474	0.10	0.0982	0.0992	0.101	0.085 to 0.115	98.2	70 to 130	1.01	20
BA14956	Iron, Total	mg/L	0.00127	0.0176	0.2	0.205	0.204	0.208	0.17 to 0.23	102	70 to 130	0.489	20
BA14956	Sodium, Total	mg/L	0.00154	0.044	5.00	5.08	5.06	5.26	4.25 to 5.75	102	70 to 130	0.394	20
BA14956	Calcium, Total	mg/L	0.00843	0.1518	5.00	5.09	5.05	5.18	4.25 to 5.75	102	70 to 130	0.789	20
BA14956	Selenium, Total	mg/L	-0.0000223	0.001	0.10	0.101	0.0993	0.113	0.085 to 0.115	101	70 to 130	1.70	20
BA14956	Beryllium, Total	mg/L	0.0000219	0.00088	0.10	0.0943	0.0950	0.0900	0.085 to 0.115	94.3	70 to 130	0.740	20
BA14956	Boron, Total	mg/L	0.000769	0.0650254	1.00	1.00	0.998	1.03	0.85 to 1.15	100	70 to 130	0.200	20
BA14956	Mercury, Total by CVAA	mg/L	0.000150	0.0005	0.004	0.00412	0.00406	0.00388	0.0034 to 0.0046	103	70 to 130	1.47	20
BA14956	Magnesium, Total	mg/L	-0.00205	0.0462	5.00	5.06	5.00	5.13	4.25 to 5.75	101	70 to 130	1.19	20
BA14956	Thallium, Total	mg/L	0.0000015	0.0001474	0.10	0.105	0.0978	0.104	0.085 to 0.115	105	70 to 130	7.10	20
BA14954	Iron, Dissolved	mg/L	0.000401	0.0176	0.2	0.205	0.210	0.205	0.17 to 0.23	102	70 to 130	2.41	20
BA14956	Potassium, Total	mg/L	0.00201	0.3674	10.0	9.73	9.96	9.97	8.5 to 11.5	97.3	70 to 130	2.34	20
BA14956	Barium, Total	mg/L	-0.0000087	0.0002	0.10	0.0955	0.0941	0.0899	0.085 to 0.115	95.5	70 to 130	1.48	20
BA14956	Manganese, Total	mg/L	0.0000544	0.0001474	0.10	0.0997	0.0989	0.103	0.085 to 0.115	99.7	70 to 130	0.806	20
BA14956	Lead, Total	mg/L	0.0000023	0.0001474	0.10	0.101	0.0987	0.101	0.085 to 0.115	101	70 to 130	2.30	20
BA14956	Cobalt, Total	mg/L	-0.0000046	0.0001474	0.10	0.100	0.0991	0.102	0.085 to 0.115	100	70 to 130	0.904	20
BA14956	Molybdenum, Total	mg/L	0.0000099	0.0001474	0.10	0.0982	0.0962	0.0996	0.085 to 0.115	98.2	70 to 130	2.06	20
BA14956	Antimony, Total	mg/L	0.000161	0.001	0.10	0.0957	0.0940	0.0915	0.085 to 0.115	95.7	70 to 130	1.79	20
BA14954	Manganese, Dissolved	mg/L	0.0000253	0.0001474	0.10	1.59	1.59	0.102	0.085 to 0.115	90.0	70 to 130	0.00	20
BA14956	Arsenic, Total	mg/L	-0.0000333	0.0001474	0.10	0.103	0.100	0.107	0.085 to 0.115	103	70 to 130	2.96	20
BA14956	Lithium, Total	mg/L	0.0000832	0.0154	0.200	0.187	0.187	0.193	0.17 to 0.23	93.5	70 to 130	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 08:20
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-46HO

Laboratory ID Number: BA14953

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14956	Sulfate	mg/L	-0.339	0.50	20.0	19.2	-0.861	19.5	18 to 22	96.0	80 to 120	0.00	20
BA14954	Solids, Dissolved	mg/L	2.00	25			259	53.0	40 to 60			0.193	5
BA14956	Fluoride	mg/L	0.0151	0.05	2.50	2.64	0.00863	2.63	2.25 to 2.75	106	80 to 120	0.00	20
BA14954	Alkalinity, Total as CaCO3	mg/L					206	48.7	45.0 to 55.0			1.47	10
BA14956	Chloride	mg/L	0.0237	0.50	10.0	10.3	0.135	10.2	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-46HO DUP

Location Code: WMWGREAP
Collected: 8/11/20 08:20
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14954

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 11:57		1.015	0.250	mg/L	0.03	0.1	
* Calcium, Total	8/20/20 14:40	8/21/20 12:13		10.15	56.9	mg/L	1.015	5.075	
* Iron, Total	8/20/20 14:40	8/21/20 11:57		1.015	0.104	mg/L	0.02	0.05	
* Lithium, Total	8/20/20 14:40	8/21/20 11:57		1.015	0.0979	mg/L	0.01	0.02	
* Magnesium, Total	8/20/20 14:40	8/21/20 11:57		1.015	21.2	mg/L	0.1	0.5	
* Sodium, Total	8/20/20 14:40	8/21/20 11:57		1.015	11.2	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	8/24/20 08:30	8/24/20 10:45		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:22	8/14/20 12:18		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:22	8/14/20 12:18		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:22	8/14/20 12:18		1.015	0.0673	mg/L	0.002	0.01	
* Beryllium, Total	8/13/20 14:22	8/14/20 12:18		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:22	8/14/20 12:18		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:22	8/14/20 12:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:22	8/14/20 12:18		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:22	8/14/20 12:18		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:22	8/14/20 12:18		1.015	0.0428	mg/L	0.002	0.01	
* Potassium, Total	8/13/20 14:22	8/14/20 12:18		1.015	3.89	mg/L	0.3	2.5	
* Manganese, Total	8/13/20 14:22	8/14/20 13:33		5.075	1.44	mg/L	0.005075	0.025375	
* Selenium, Total	8/13/20 14:22	8/14/20 12:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:22	8/14/20 12:18		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/17/20 07:51	8/17/20 12:55		5.075	1.50	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 12:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	8/25/20 13:20	8/25/20 13:40		1	203	mg/L		0.1	HT
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/14/20 17:00	8/19/20 11:40		1	260	mg/L		25	

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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - MW-46HO DUP

Location Code: WMWGREAP
Collected: 8/11/20 08:20
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14954

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	8/25/20 13:20	8/25/20 13:40		1	203	mg/L			
Carbonate Alkalinity, (calc.)	8/25/20 13:20	8/25/20 13:40		1	0.12	mg/L			
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	8/18/20 11:28	8/18/20 11:28		1	4.10	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	8/20/20 14:55	8/20/20 14:55		1	0.164	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011		***Analyst: JCC***							
* Sulfate	8/25/20 17:31	8/25/20 17:31		3	53.4	mg/L	1.50	3	
Analytical Method: Field Measurements		***Analyst: TJD***							
Conductivity	8/11/20 08:16	8/11/20 08:16			454.13	uS/cm			FA
pH	8/11/20 08:16	8/11/20 08:16			6.38	SU			FA
Temperature	8/11/20 08:16	8/11/20 08:16			20.06	C			FA
Turbidity	8/11/20 08:16	8/11/20 08:16			8.46	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.
LBM 9/9/20

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 8/11/20 08:20
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BA14954

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14956	Chromium, Total	mg/L	-0.0000122	0.00044	0.10	0.0979	0.0982	0.100	0.085 to 0.115	97.9	70 to 130	0.306	20
BA14956	Cobalt, Total	mg/L	-0.0000046	0.0001474	0.10	0.100	0.0991	0.102	0.085 to 0.115	100	70 to 130	0.904	20
BA14956	Molybdenum, Total	mg/L	0.0000099	0.0001474	0.10	0.0982	0.0962	0.0996	0.085 to 0.115	98.2	70 to 130	2.06	20
BA14956	Antimony, Total	mg/L	0.000161	0.001	0.10	0.0957	0.0940	0.0915	0.085 to 0.115	95.7	70 to 130	1.79	20
BA14954	Manganese, Dissolved	mg/L	0.0000253	0.0001474	0.10	1.59	1.59	0.102	0.085 to 0.115	90.0	70 to 130	0.00	20
BA14956	Arsenic, Total	mg/L	-0.0000333	0.0001474	0.10	0.103	0.100	0.107	0.085 to 0.115	103	70 to 130	2.96	20
BA14956	Lithium, Total	mg/L	0.0000832	0.0154	0.200	0.187	0.187	0.193	0.17 to 0.23	93.5	70 to 130	0.00	20
BA14956	Beryllium, Total	mg/L	0.0000219	0.00088	0.10	0.0943	0.0950	0.0900	0.085 to 0.115	94.3	70 to 130	0.740	20
BA14956	Boron, Total	mg/L	0.000769	0.0650254	1.00	1.00	0.998	1.03	0.85 to 1.15	100	70 to 130	0.200	20
BA14956	Mercury, Total by CVAA	mg/L	0.000150	0.0005	0.004	0.00412	0.00406	0.00388	0.0034 to 0.0046	103	70 to 130	1.47	20
BA14956	Magnesium, Total	mg/L	-0.00205	0.0462	5.00	5.06	5.00	5.13	4.25 to 5.75	101	70 to 130	1.19	20
BA14956	Thallium, Total	mg/L	0.0000015	0.0001474	0.10	0.105	0.0978	0.104	0.085 to 0.115	105	70 to 130	7.10	20
BA14956	Calcium, Total	mg/L	0.00843	0.1518	5.00	5.09	5.05	5.18	4.25 to 5.75	102	70 to 130	0.789	20
BA14956	Selenium, Total	mg/L	-0.0000223	0.001	0.10	0.101	0.0993	0.113	0.085 to 0.115	101	70 to 130	1.70	20
BA14956	Barium, Total	mg/L	-0.0000087	0.0002	0.10	0.0955	0.0941	0.0899	0.085 to 0.115	95.5	70 to 130	1.48	20
BA14956	Manganese, Total	mg/L	0.0000544	0.0001474	0.10	0.0997	0.0989	0.103	0.085 to 0.115	99.7	70 to 130	0.806	20
BA14956	Lead, Total	mg/L	0.0000023	0.0001474	0.10	0.101	0.0987	0.101	0.085 to 0.115	101	70 to 130	2.30	20
BA14956	Cadmium, Total	mg/L	0.0000062	0.0001474	0.10	0.0982	0.0992	0.101	0.085 to 0.115	98.2	70 to 130	1.01	20
BA14956	Iron, Total	mg/L	0.00127	0.0176	0.2	0.205	0.204	0.208	0.17 to 0.23	102	70 to 130	0.489	20
BA14956	Sodium, Total	mg/L	0.00154	0.044	5.00	5.08	5.06	5.26	4.25 to 5.75	102	70 to 130	0.394	20
BA14954	Iron, Dissolved	mg/L	0.000401	0.0176	0.2	0.205	0.210	0.205	0.17 to 0.23	102	70 to 130	2.41	20
BA14956	Potassium, Total	mg/L	0.00201	0.3674	10.0	9.73	9.96	9.97	8.5 to 11.5	97.3	70 to 130	2.34	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 8/11/20 08:20
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond - MW-46HO DUP

Laboratory ID Number: BA14954

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14956	Sulfate	mg/L	-0.339	0.50	20.0	19.2	-0.861	19.5	18 to 22	96.0	80 to 120	0.00	20
BA14954	Solids, Dissolved	mg/L	2.00	25			259	53.0	40 to 60			0.193	5
BA14956	Fluoride	mg/L	0.0151	0.05	2.50	2.64	0.00863	2.63	2.25 to 2.75	106	80 to 120	0.00	20
BA14954	Alkalinity, Total as CaCO3	mg/L					206	48.7	45.0 to 55.0			1.47	10
BA14956	Chloride	mg/L	0.0237	0.50	10.0	10.3	0.135	10.2	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/9/20

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-1

Location Code: WMWGREAPFB
Collected: 8/11/20 09:00
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14955

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:00		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 12:00		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 12:00		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 12:00		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 12:00		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 12:00		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:22	8/14/20 12:20		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 12:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/14/20 17:00	8/19/20 11:40		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/18/20 11:29	8/18/20 11:29		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/20/20 14:56	8/20/20 14:56		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 17:32	8/25/20 17:32		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 8/11/20 09:00
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA14955

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14956	Chromium, Total	mg/L	-0.0000122	0.00044	0.10	0.0979	0.0982	0.100	0.085 to 0.115	97.9	70 to 130	0.306	20
BA14956	Potassium, Total	mg/L	0.00201	0.3674	10.0	9.73	9.96	9.97	8.5 to 11.5	97.3	70 to 130	2.34	20
BA14956	Arsenic, Total	mg/L	-0.0000333	0.0001474	0.10	0.103	0.100	0.107	0.085 to 0.115	103	70 to 130	2.96	20
BA14956	Lithium, Total	mg/L	0.0000832	0.0154	0.200	0.187	0.187	0.193	0.17 to 0.23	93.5	70 to 130	0.00	20
BA14956	Beryllium, Total	mg/L	0.0000219	0.00088	0.10	0.0943	0.0950	0.0900	0.085 to 0.115	94.3	70 to 130	0.740	20
BA14956	Boron, Total	mg/L	0.000769	0.0650254	1.00	1.00	0.998	1.03	0.85 to 1.15	100	70 to 130	0.200	20
BA14956	Mercury, Total by CVAA	mg/L	0.000150	0.0005	0.004	0.00412	0.00406	0.00388	0.0034 to 0.0046	103	70 to 130	1.47	20
BA14956	Magnesium, Total	mg/L	-0.00205	0.0462	5.00	5.06	5.00	5.13	4.25 to 5.75	101	70 to 130	1.19	20
BA14956	Thallium, Total	mg/L	0.0000015	0.0001474	0.10	0.105	0.0978	0.104	0.085 to 0.115	105	70 to 130	7.10	20
BA14956	Cadmium, Total	mg/L	0.0000062	0.0001474	0.10	0.0982	0.0992	0.101	0.085 to 0.115	98.2	70 to 130	1.01	20
BA14956	Iron, Total	mg/L	0.00127	0.0176	0.2	0.205	0.204	0.208	0.17 to 0.23	102	70 to 130	0.489	20
BA14956	Sodium, Total	mg/L	0.00154	0.044	5.00	5.08	5.06	5.26	4.25 to 5.75	102	70 to 130	0.394	20
BA14956	Barium, Total	mg/L	-0.0000087	0.0002	0.10	0.0955	0.0941	0.0899	0.085 to 0.115	95.5	70 to 130	1.48	20
BA14956	Manganese, Total	mg/L	0.0000544	0.0001474	0.10	0.0997	0.0989	0.103	0.085 to 0.115	99.7	70 to 130	0.806	20
BA14956	Lead, Total	mg/L	0.0000023	0.0001474	0.10	0.101	0.0987	0.101	0.085 to 0.115	101	70 to 130	2.30	20
BA14956	Cobalt, Total	mg/L	-0.0000046	0.0001474	0.10	0.100	0.0991	0.102	0.085 to 0.115	100	70 to 130	0.904	20
BA14956	Molybdenum, Total	mg/L	0.0000099	0.0001474	0.10	0.0982	0.0962	0.0996	0.085 to 0.115	98.2	70 to 130	2.06	20
BA14956	Antimony, Total	mg/L	0.000161	0.001	0.10	0.0957	0.0940	0.0915	0.085 to 0.115	95.7	70 to 130	1.79	20
BA14956	Calcium, Total	mg/L	0.00843	0.1518	5.00	5.09	5.05	5.18	4.25 to 5.75	102	70 to 130	0.789	20
BA14956	Selenium, Total	mg/L	-0.0000223	0.001	0.10	0.101	0.0993	0.113	0.085 to 0.115	101	70 to 130	1.70	20

Comments:

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

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 8/11/20 09:00
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Field Blank-1

Laboratory ID Number: BA14955

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14956	Chloride	mg/L	0.0237	0.50	10.0	10.3	0.135	10.2	9 to 11	103	80 to 120	0.00	20
BA14956	Sulfate	mg/L	-0.339	0.50	20.0	19.2	-0.861	19.5	18 to 22	96.0	80 to 120	0.00	20
BA14954	Solids, Dissolved	mg/L	2.00	25			259	53.0	40 to 60			0.193	5
BA14956	Fluoride	mg/L	0.0151	0.05	2.50	2.64	0.00863	2.63	2.25 to 2.75	106	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank-1

Location Code: WMWGREAPEB
Collected: 8/11/20 09:15
Customer ID:
Submittal Date: 8/12/20 12:20

Laboratory ID Number: BA14956

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	8/20/20 14:40	8/21/20 12:03		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	8/20/20 14:40	8/21/20 12:03		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	8/20/20 14:40	8/21/20 12:03		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	8/20/20 14:40	8/21/20 12:03		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	8/20/20 14:40	8/21/20 12:03		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	8/20/20 14:40	8/21/20 12:03		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/13/20 14:22	8/14/20 12:23		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	8/13/20 12:55	8/14/20 12:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/14/20 17:00	8/19/20 11:40		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/18/20 11:30	8/18/20 11:30		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/20/20 14:58	8/20/20 14:58		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	8/25/20 17:33	8/25/20 17:33		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 8/11/20 09:15
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA14956

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14956	Chromium, Total	mg/L	-0.0000122	0.00044	0.10	0.0979	0.0982	0.100	0.085 to 0.115	97.9	70 to 130	0.306	20
BA14956	Potassium, Total	mg/L	0.00201	0.3674	10.0	9.73	9.96	9.97	8.5 to 11.5	97.3	70 to 130	2.34	20
BA14956	Calcium, Total	mg/L	0.00843	0.1518	5.00	5.09	5.05	5.18	4.25 to 5.75	102	70 to 130	0.789	20
BA14956	Selenium, Total	mg/L	-0.0000223	0.001	0.10	0.101	0.0993	0.113	0.085 to 0.115	101	70 to 130	1.70	20
BA14956	Arsenic, Total	mg/L	-0.0000333	0.0001474	0.10	0.103	0.100	0.107	0.085 to 0.115	103	70 to 130	2.96	20
BA14956	Lithium, Total	mg/L	0.0000832	0.0154	0.200	0.187	0.187	0.193	0.17 to 0.23	93.5	70 to 130	0.00	20
BA14956	Beryllium, Total	mg/L	0.0000219	0.00088	0.10	0.0943	0.0950	0.0900	0.085 to 0.115	94.3	70 to 130	0.740	20
BA14956	Boron, Total	mg/L	0.000769	0.0650254	1.00	1.00	0.998	1.03	0.85 to 1.15	100	70 to 130	0.200	20
BA14956	Mercury, Total by CVAA	mg/L	0.000150	0.0005	0.004	0.00412	0.00406	0.00388	0.0034 to 0.0046	103	70 to 130	1.47	20
BA14956	Magnesium, Total	mg/L	-0.00205	0.0462	5.00	5.06	5.00	5.13	4.25 to 5.75	101	70 to 130	1.19	20
BA14956	Thallium, Total	mg/L	0.0000015	0.0001474	0.10	0.105	0.0978	0.104	0.085 to 0.115	105	70 to 130	7.10	20
BA14956	Cobalt, Total	mg/L	-0.0000046	0.0001474	0.10	0.100	0.0991	0.102	0.085 to 0.115	100	70 to 130	0.904	20
BA14956	Molybdenum, Total	mg/L	0.0000099	0.0001474	0.10	0.0982	0.0962	0.0996	0.085 to 0.115	98.2	70 to 130	2.06	20
BA14956	Antimony, Total	mg/L	0.000161	0.001	0.10	0.0957	0.0940	0.0915	0.085 to 0.115	95.7	70 to 130	1.79	20
BA14956	Cadmium, Total	mg/L	0.0000062	0.0001474	0.10	0.0982	0.0992	0.101	0.085 to 0.115	98.2	70 to 130	1.01	20
BA14956	Iron, Total	mg/L	0.00127	0.0176	0.2	0.205	0.204	0.208	0.17 to 0.23	102	70 to 130	0.489	20
BA14956	Sodium, Total	mg/L	0.00154	0.044	5.00	5.08	5.06	5.26	4.25 to 5.75	102	70 to 130	0.394	20
BA14956	Barium, Total	mg/L	-0.0000087	0.0002	0.10	0.0955	0.0941	0.0899	0.085 to 0.115	95.5	70 to 130	1.48	20
BA14956	Manganese, Total	mg/L	0.0000544	0.0001474	0.10	0.0997	0.0989	0.103	0.085 to 0.115	99.7	70 to 130	0.806	20
BA14956	Lead, Total	mg/L	0.0000023	0.0001474	0.10	0.101	0.0987	0.101	0.085 to 0.115	101	70 to 130	2.30	20

Comments:

Reported: 9/14/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 8/11/20 09:15
Customer ID:
Delivery Date: 8/12/20 12:20

Description: Greene County Ash Pond Equipment Blank-1

Laboratory ID Number: BA14956

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA14956	Chloride	mg/L	0.0237	0.50	10.0	10.3	0.135	10.2	9 to 11	103	80 to 120	0.00	20
BA14956	Sulfate	mg/L	-0.339	0.50	20.0	19.2	-0.861	19.5	18 to 22	96.0	80 to 120	0.00	20
BA14954	Solids, Dissolved	mg/L	2.00	25			259	53.0	40 to 60			0.193	5
BA14956	Fluoride	mg/L	0.0151	0.05	2.50	2.64	0.00863	2.63	2.25 to 2.75	106	80 to 120	0.00	20

Comments:

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

Definitions

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.
HT	Analysis was performed outside of the analytical holding time.
U	Compound was analyzed, but not detected.

Chain of Custody
Groundwater
APC General Testing Laboratory

✔ Field Complete
✔ Lab Complete
☐ Outside Lab

Lab ETA: 08/12/2020 10:31

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Greene Ash Pond

Bottles

1	Metals	500 mL	3	Hg	250 mL	5	Anions	250 mL	7	N/A	N/A
2	Diss Metals	500 mL	4	TDS	500 mL	6	Alkalinity	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-46HO	08/11/2020	08:20	6	Groundwater		BA14953
MW-46HO Dup	08/11/2020	08:20	6	Sample Duplicate		BA14954
FB-1	08/11/2020	09:00	4	Field Blank		BA14955
EB-1	08/11/2020	09:15	4	Equipment Blank		BA14956

Relinquished By	Received By	Date/Time
		08/12/2020 07:03
		08/12/2020 10:39

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1294

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	0.1 degrees C
Thermometer ID	5408-27568-2-2
pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

7.1

Chain of Custody Groundwater

APC General Testing Laboratory

✔ Field Complete ✔ Outside Lab

✔ Lab Complete

Lab ETA 08/12/2020 10:35

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Jason Arledge	Requested By	Greg Dyer
Collector	TJ Daugherty	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 @ MW-46HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-46HO	08/11/2020	08:20	3	Groundwater		BA14957
MW-46HO Dup	08/11/2020	08:20	1	Sample Duplicate		BA14958
FB-1	08/11/2020	09:00	1	Field Blank		BA14959
EB-1	08/11/2020	09:15	1	Equipment Blank		BA14960

Relinquished By	Received By	Date/Time
		08/12/2020 07:13
		08/12/2020 10:35

SmarTroll ID	7586-41445-5-4
Turbidity ID	4677-23342-4-1
Sample Event	1294

All metals and radiological bottles have pH < 2 ✔

Cooler Temp	N/A
Thermometer ID	N/A
pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-192168-4
Laboratory SDG: Plant Greene County Ash Pond 1294
Client Project/Site: CCR Plant Greene

For:
Alabama Power General Test Laboratory
744 County Rd 87
GSC #8
Calera, Alabama 35040

Attn: Laura Midkiff

Authorized for release by:
9/18/2020 4:02:46 PM

Cheyenne Whitmire, Project Manager II
(850)471-6222
Cheyenne.Whitmire@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 400-192168-4

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-192168-4

RAD

Method 9315: Radium-226 prep batch 160-479632. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA-14957 MW-46HO (400-192168-13), BA-14957 MW-46HO (400-192168-13[MS]), BA-14957 MW-46HO (400-192168-13[MSD]), BA-14958 MW-46HO DUP (400-192168-14), BA-14959 FB-1 (400-192168-15), BA-14960 EB-1 (400-192168-16), (LCS 160-479632/1-A) and (MB 160-479632/24-A)

Method 9320: Radium-228 prep batch 160-479635. The Ra-228 matrix spike duplicate (MSD) is recovering (175%) outside of the control limits of (150%). Sample matrix interference and/or non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. Due to high spike recovery in the matrix spike duplicate (MSD), the RER/RPD is outside of limits. The laboratory control sample (LCS) and two other sets of matrix spike/matrix spike duplicate (MS/MSD) samples all fall within quality control criteria demonstrating acceptable preparation and instrument performance. The data have been reported with this narrative. (400-192168-A-4-F MSD)

Method 9320: Radium-228 prep batch 160-479635. Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. BA-14957 MW-46HO (400-192168-13), BA-14957 MW-46HO (400-192168-13[MSD]), BA-14958 MW-46HO DUP (400-192168-14), BA-14959 FB-1 (400-192168-15), BA-14960 EB-1 (400-192168-16), (LCS 160-479635/1-A), (MB 160-479635/24-A), (400-192168-A-4-D), (400-192168-A-4-E MS), (400-192168-A-4-F MSD), (400-192168-A-9-D), (400-192168-A-9-E MS) and (400-192168-A-9-F MSD)

Method PrecSep_0: Radium 228 Prep Batch 160-479635. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA-14957 MW-46HO (400-192168-13), BA-14957 MW-46HO (400-192168-13[MS]), BA-14957 MW-46HO (400-192168-13[MSD]), BA-14958 MW-46HO DUP (400-192168-14), BA-14959 FB-1 (400-192168-15) and BA-14960 EB-1 (400-192168-16).

Method PrecSep-21: Radium 226 Prep Batch 160-479632. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA-14957 MW-46HO (400-192168-13), BA-14957 MW-46HO (400-192168-13[MS]), BA-14957 MW-46HO (400-192168-13[MSD]), BA-14958 MW-46HO DUP (400-192168-14), BA-14959 FB-1 (400-192168-15) and BA-14960 EB-1 (400-192168-16).

Method Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-4
SDG: Plant Greene County Ash Pond 1294

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-4
SDG: Plant Greene County Ash Pond 1294

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-192168-13	BA 14957 MW-46HO	Water	08/11/20 08:20	08/14/20 12:15	
400-192168-14	BA 14958 MW-46HO DUP	Water	08/11/20 08:20	08/14/20 12:15	
400-192168-15	BA 14959 FB-1	Water	08/11/20 09:00	08/14/20 12:15	
400-192168-16	BA 14960 EB-1	Water	08/11/20 09:15	08/14/20 12:15	

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-4
SDG: Plant Greene County Ash Pond 1294

Client Sample ID: BA 14957 MW-46HO

Date Collected: 08/11/20 08:20
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-13

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.0869	0.0875	1.00	0.119	pCi/L	08/17/20 15:49	09/09/20 18:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*40 - 110*	*08/17/20 15:49*	*09/09/20 18:59*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.362	U	0.330	0.332	1.00	0.531	pCi/L	08/17/20 16:16	09/02/20 12:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.7*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*
Y Carrier	*84.9*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.477	U	0.341	0.343	5.00	0.531	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-4
SDG: Plant Greene County Ash Pond 1294

Client Sample ID: BA 14958 MW-46HO DUP

Lab Sample ID: 400-192168-14

Date Collected: 08/11/20 08:20
Date Received: 08/14/20 12:15

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0974	U	0.0906	0.0910	1.00	0.138	pCi/L	08/17/20 15:49	09/09/20 19:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.3*		*40 - 110*	*08/17/20 15:49*	*09/09/20 19:00*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.258	U	0.324	0.325	1.00	0.537	pCi/L	08/17/20 16:16	09/02/20 12:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.3*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*
Y Carrier	*81.9*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.355	U	0.336	0.337	5.00	0.537	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-4
SDG: Plant Greene County Ash Pond 1294

Client Sample ID: BA 14959 FB-1

Date Collected: 08/11/20 09:00
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-15

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0361	U	0.0680	0.0681	1.00	0.122	pCi/L	08/17/20 15:49	09/09/20 21:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*40 - 110*	*08/17/20 15:49*	*09/09/20 21:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.285	0.286	1.00	0.487	pCi/L	08/17/20 16:16	09/02/20 12:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*
Y Carrier	*89.0*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.180	U	0.293	0.294	5.00	0.487	pCi/L		09/15/20 13:53	1

Client Sample Results

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-4
SDG: Plant Greene County Ash Pond 1294

Client Sample ID: BA 14960 EB-1

Date Collected: 08/11/20 09:15
Date Received: 08/14/20 12:15

Lab Sample ID: 400-192168-16

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00725	U	0.0489	0.0489	1.00	0.116	pCi/L	08/17/20 15:49	09/09/20 21:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*40 - 110*	*08/17/20 15:49*	*09/09/20 21:19*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0642	U	0.309	0.309	1.00	0.541	pCi/L	08/17/20 16:16	09/02/20 12:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*
Y Carrier	*92.3*		*40 - 110*	*08/17/20 16:16*	*09/02/20 12:22*	*1*

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0569	U	0.313	0.313	5.00	0.541	pCi/L		09/15/20 13:53	1

Definitions/Glossary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-4
SDG: Plant Greene County Ash Pond 1294

Qualifiers

Rad

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
F1	MS and/or MSD recovery exceeds control limits.
U	Result is less than the sample detection limit.

Glossary

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

Lab Chronicle

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-4
SDG: Plant Greene County Ash Pond 1294

Client Sample ID: BA 14957 MW-46HO
Lab Sample ID: 400-192168-13

Date Collected: 08/11/20 08:20
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 18:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481341	09/02/20 12:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14958 MW-46HO DUP
Lab Sample ID: 400-192168-14

Date Collected: 08/11/20 08:20
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 19:00	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481341	09/02/20 12:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14959 FB-1
Lab Sample ID: 400-192168-15

Date Collected: 08/11/20 09:00
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 21:19	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481341	09/02/20 12:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Client Sample ID: BA 14960 EB-1
Lab Sample ID: 400-192168-16

Date Collected: 08/11/20 09:15
Matrix: Water
Date Received: 08/14/20 12:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			479632	08/17/20 15:49	AVB	TAL SL
Total/NA	Analysis	9315		1	481785	09/09/20 21:19	SCB	TAL SL
Total/NA	Prep	PrecSep_0			479635	08/17/20 16:16	AVB	TAL SL
Total/NA	Analysis	9320		1	481341	09/02/20 12:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	482527	09/15/20 13:53	CAH	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

QC Association Summary

Client: Alabama Power General Test Laboratory
Project/Site: CCR Plant Greene

Job ID: 400-192168-4
SDG: Plant Greene County Ash Pond 1294

Rad

Prep Batch: 479632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192168-13	BA 14957 MW-46HO	Total/NA	Water	PrecSep-21	
400-192168-14	BA 14958 MW-46HO DUP	Total/NA	Water	PrecSep-21	
400-192168-15	BA 14959 FB-1	Total/NA	Water	PrecSep-21	
400-192168-16	BA 14960 EB-1	Total/NA	Water	PrecSep-21	
MB 160-479632/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-479632/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-192168-13 MS	BA 14957 MW-46HO	Total/NA	Water	PrecSep-21	
400-192168-13 MSD	BA 14957 MW-46HO	Total/NA	Water	PrecSep-21	

Prep Batch: 479635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192168-13	BA 14957 MW-46HO	Total/NA	Water	PrecSep_0	
400-192168-14	BA 14958 MW-46HO DUP	Total/NA	Water	PrecSep_0	
400-192168-15	BA 14959 FB-1	Total/NA	Water	PrecSep_0	
400-192168-16	BA 14960 EB-1	Total/NA	Water	PrecSep_0	
MB 160-479635/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-479635/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-192168-13 MS	BA 14957 MW-46HO	Total/NA	Water	PrecSep_0	
400-192168-13 MSD	BA 14957 MW-46HO	Total/NA	Water	PrecSep_0	
400-192168-A-4-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
400-192168-A-9-E MS	Matrix Spike	Total/NA	Water	PrecSep_0	
400-192168-A-9-F MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-479632/24-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481785 — **Prep Batch: 479632**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04309	U	0.0776	0.0777	1.00	0.137	pCi/L	08/17/20 15:49	09/09/20 21:19	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*40 - 110*	*08/17/20 15:49*	*09/09/20 21:19*	*1*

Lab Sample ID: LCS 160-479632/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481785 — **Prep Batch: 479632**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	12.76		1.36	1.00	0.125	pCi/L	84	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.9*		*40 - 110*

Lab Sample ID: 400-192168-13 MS — **Client Sample ID: BA 14957 MW-46HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481785 — **Prep Batch: 479632**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.116	U	15.1	12.00		1.30	1.00	0.157	pCi/L	79	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*86.1*		*40 - 110*

Lab Sample ID: 400-192168-13 MSD — **Client Sample ID: BA 14957 MW-46HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481785 — **Prep Batch: 479632**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.116	U	15.1	12.06		1.31	1.00	0.153	pCi/L	79	75 - 138	0.02	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*86.7*		*40 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-479635/24-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481341 — **Prep Batch: 479635**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3462	U	0.277	0.279	1.00	0.438	pCi/L	08/17/20 16:16	09/02/20 12:22	1

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110	08/17/20 16:16	09/02/20 12:22	1
Y Carrier	93.8		40 - 110	08/17/20 16:16	09/02/20 12:22	1

Lab Sample ID: LCS 160-479635/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			10.5	9.883		1.25	1.00	0.620	pCi/L	95	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.9		40 - 110
Y Carrier	81.5		40 - 110

Lab Sample ID: 400-192168-13 MS — **Client Sample ID: BA 14957 MW-46HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481341 — **Prep Batch: 479635**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.362	U	10.5	8.577		1.11	1.00	0.503	pCi/L	79	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	86.1		40 - 110
Y Carrier	87.1		40 - 110

Lab Sample ID: 400-192168-13 MSD — **Client Sample ID: BA 14957 MW-46HO**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481341 — **Prep Batch: 479635**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.362	U	10.5	9.091		1.16	1.00	0.541	pCi/L	83	45 - 150	0.23	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	86.7		40 - 110
Y Carrier	89.7		40 - 110

Lab Sample ID: 400-192168-A-4-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 481340 — **Prep Batch: 479635**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.176	U F	10.5	18.55	F1 F	2.45	1.00	1.26	pCi/L	175	45 - 150	1.86	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	44.1		40 - 110
Y Carrier	76.3		40 - 110

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

Lab Sample ID: 400-192168-A-9-E MS
Matrix: Water
Analysis Batch: 481340

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 479635

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.372	U	10.5	8.723		1.14	1.00	0.549	pCi/L	80	45 - 150		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*87.0*		*40 - 110*
Y Carrier	*84.9*		*40 - 110*

Lab Sample ID: 400-192168-A-9-F MSD
Matrix: Water
Analysis Batch: 481340

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 479635

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.372	U	10.5	9.245		1.17	1.00	0.542	pCi/L	85	45 - 150	0.23	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*93.1*		*40 - 110*
Y Carrier	*85.2*		*40 - 110*

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler: TJ Daugherty	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-56525-24537.1
Client Contact: Laura Midkiff	Phone:	E-Mail: cheyenne.whitmire@testamericainc.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Alabama Power General Test Laboratory		Accreditations Required (See note):		Job #
Address: 744 County Rd 87 GSC#8	Due Date Requested:			
City: Calera	TAT Requested (days): Routine			
State, Zip: AL, 35040				
Phone: 205-664-6197	PO #			
Email: lbmidkif@southernco.com	WO #			
Project Name: CCR	Project #: 40007143			
Site: Greene County Ash Pond 1294	SSOW#:			

Analysis Requested

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

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Soil, Groundwater, Tissue, Air)	Field Filtered Sample (Yes or Not)	Perform MS/MSD (Yes or No)	SM 4500 F_C	SM 4500 Cl_E	SM 4500 SO4_E	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA14957	8/11/20	08:20	G	Water		X				X	3	MW-46HO
BA14958	8/11/20	08:20	G	Water						X	1	MW-46HO DUP (Sample Duplicate)
BA14959	8/11/20	09:00	G	Water						X	1	FB-1 (Field Blank)
BA14960	8/11/20	09:15	G	Water						X	1	EB-1 (Equipment Blank)

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) 44048 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/12/2020 15:30	Company: Water APC	Received by:	Date/Time: 8/14/20 1215	Company: TA Pen
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver 09/20/2016

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-192168-4
SDG Number: Plant Greene County Ash Pond 1294

Login Number: 192168
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	25.6°C, 26.9°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-192168-4
SDG Number: Plant Greene County Ash Pond 1294

Login Number: 192168
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 08/15/20 11:57 AM

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

Accreditation/Certification Summary

Client: Alabama Power General Test Laboratory
Job ID: 400-192168-4
Project/Site: CCR Plant Greene
SDG: Plant Greene County Ash Pond 1294

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Iowa	State	373	09-17-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-20

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-46HO	8/11/2020 7:36	Conductivity	487.47	uS/cm
GC-AP-MW-46HO	8/11/2020 7:36	DO	0.39	mg/L
GC-AP-MW-46HO	8/11/2020 7:36	Depth to Water Detail	15.63	ft
GC-AP-MW-46HO	8/11/2020 7:36	Oxidation Reduction Potention	41.76	mv
GC-AP-MW-46HO	8/11/2020 7:36	pH	6.41	pH
GC-AP-MW-46HO	8/11/2020 7:36	Temperature	19.99	C
GC-AP-MW-46HO	8/11/2020 7:36	Turbidity	100	NTU
GC-AP-MW-46HO	8/11/2020 7:41	Conductivity	483.44	uS/cm
GC-AP-MW-46HO	8/11/2020 7:41	DO	0.35	mg/L
GC-AP-MW-46HO	8/11/2020 7:41	Depth to Water Detail	15.66	ft
GC-AP-MW-46HO	8/11/2020 7:41	Oxidation Reduction Potention	56.41	mv
GC-AP-MW-46HO	8/11/2020 7:41	pH	6.36	pH
GC-AP-MW-46HO	8/11/2020 7:41	Temperature	20	C
GC-AP-MW-46HO	8/11/2020 7:41	Turbidity	54.7	NTU
GC-AP-MW-46HO	8/11/2020 7:46	Conductivity	476.8	uS/cm
GC-AP-MW-46HO	8/11/2020 7:46	DO	0.31	mg/L
GC-AP-MW-46HO	8/11/2020 7:46	Depth to Water Detail	15.66	ft
GC-AP-MW-46HO	8/11/2020 7:46	Oxidation Reduction Potention	66.61	mv
GC-AP-MW-46HO	8/11/2020 7:46	pH	6.32	pH
GC-AP-MW-46HO	8/11/2020 7:46	Temperature	20.04	C
GC-AP-MW-46HO	8/11/2020 7:46	Turbidity	36.2	NTU
GC-AP-MW-46HO	8/11/2020 7:51	Conductivity	467.55	uS/cm
GC-AP-MW-46HO	8/11/2020 7:51	DO	0.32	mg/L
GC-AP-MW-46HO	8/11/2020 7:51	Depth to Water Detail	15.66	ft
GC-AP-MW-46HO	8/11/2020 7:51	Oxidation Reduction Potention	73.43	mv
GC-AP-MW-46HO	8/11/2020 7:51	pH	6.29	pH
GC-AP-MW-46HO	8/11/2020 7:51	Temperature	20.02	C
GC-AP-MW-46HO	8/11/2020 7:51	Turbidity	29.7	NTU
GC-AP-MW-46HO	8/11/2020 7:56	Conductivity	462.62	uS/cm
GC-AP-MW-46HO	8/11/2020 7:56	DO	0.31	mg/L
GC-AP-MW-46HO	8/11/2020 7:56	Depth to Water Detail	15.66	ft
GC-AP-MW-46HO	8/11/2020 7:56	Oxidation Reduction Potention	77.49	mv
GC-AP-MW-46HO	8/11/2020 7:56	pH	6.28	pH
GC-AP-MW-46HO	8/11/2020 7:56	Temperature	20.12	C
GC-AP-MW-46HO	8/11/2020 7:56	Turbidity	19.2	NTU
GC-AP-MW-46HO	8/11/2020 8:01	Conductivity	461.11	uS/cm
GC-AP-MW-46HO	8/11/2020 8:01	DO	0.3	mg/L
GC-AP-MW-46HO	8/11/2020 8:01	Depth to Water Detail	15.66	ft
GC-AP-MW-46HO	8/11/2020 8:01	Oxidation Reduction Potention	79.3	mv
GC-AP-MW-46HO	8/11/2020 8:01	pH	6.3	pH
GC-AP-MW-46HO	8/11/2020 8:01	Temperature	20	C
GC-AP-MW-46HO	8/11/2020 8:01	Turbidity	13.3	NTU
GC-AP-MW-46HO	8/11/2020 8:06	Conductivity	457.39	uS/cm
GC-AP-MW-46HO	8/11/2020 8:06	DO	0.29	mg/L

Alabama Power Company
Plant Greene County Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
GC-AP-MW-46HO	8/11/2020 8:06	Depth to Water Detail	15.66	ft
GC-AP-MW-46HO	8/11/2020 8:06	Oxidation Reduction Potention	79.9	mv
GC-AP-MW-46HO	8/11/2020 8:06	pH	6.33	pH
GC-AP-MW-46HO	8/11/2020 8:06	Temperature	20.01	C
GC-AP-MW-46HO	8/11/2020 8:06	Turbidity	12.9	NTU
GC-AP-MW-46HO	8/11/2020 8:11	Conductivity	455.62	uS/cm
GC-AP-MW-46HO	8/11/2020 8:11	DO	0.28	mg/L
GC-AP-MW-46HO	8/11/2020 8:11	Depth to Water Detail	15.66	ft
GC-AP-MW-46HO	8/11/2020 8:11	Oxidation Reduction Potention	80.34	mv
GC-AP-MW-46HO	8/11/2020 8:11	pH	6.36	pH
GC-AP-MW-46HO	8/11/2020 8:11	Temperature	20.04	C
GC-AP-MW-46HO	8/11/2020 8:11	Turbidity	10.87	NTU
GC-AP-MW-46HO	8/11/2020 8:16	Conductivity	454.13	uS/cm
GC-AP-MW-46HO	8/11/2020 8:16	DO	0.27	mg/L
GC-AP-MW-46HO	8/11/2020 8:16	Depth to Water Detail	15.66	ft
GC-AP-MW-46HO	8/11/2020 8:16	Oxidation Reduction Potention	79.99	mv
GC-AP-MW-46HO	8/11/2020 8:16	pH	6.38	pH
GC-AP-MW-46HO	8/11/2020 8:16	Temperature	20.06	C
GC-AP-MW-46HO	8/11/2020 8:16	Turbidity	8.46	NTU

Appendix E

1st
Semi-Annual
Monitoring Event

Interwell Prediction Limits - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 7/13/2020, 3:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-25	0.1	n/a	4/22/2020	0.104	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-1	0.1	n/a	4/21/2020	0.347	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1	n/a	4/21/2020	0.14	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1	n/a	4/21/2020	0.72	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1	n/a	4/21/2020	1.77	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1	n/a	4/21/2020	0.793	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1	n/a	4/21/2020	1.89	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1	n/a	4/21/2020	1.27	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1	n/a	4/22/2020	1.23	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1	n/a	4/22/2020	0.447	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1	n/a	4/21/2020	0.872	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1	n/a	4/20/2020	0.642	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1	n/a	4/21/2020	1.55	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1	n/a	4/20/2020	0.791	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1	n/a	4/20/2020	1.83	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1	n/a	4/21/2020	1.97	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1	n/a	4/21/2020	1.51	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1	n/a	4/21/2020	0.586	Yes	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.7	n/a	4/21/2020	90.5	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-2	42.7	n/a	4/21/2020	133	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-3	42.7	n/a	4/20/2020	91.2	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-5	42.7	n/a	4/21/2020	93	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-6	42.7	n/a	4/21/2020	142	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-7	42.7	n/a	4/21/2020	155	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-8	42.7	n/a	4/21/2020	84.8	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-9	42.7	n/a	4/21/2020	111	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-10	42.7	n/a	4/22/2020	62.9	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-12	42.7	n/a	4/21/2020	51	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-14	42.7	n/a	4/21/2020	113	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-15	42.7	n/a	4/20/2020	61	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-16	42.7	n/a	4/20/2020	90.8	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-17	42.7	n/a	4/21/2020	74.4	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-18	42.7	n/a	4/21/2020	81.8	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-21	42.7	n/a	4/21/2020	43.1	Yes	105	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	GC-AP-MW-25	5.888	n/a	4/22/2020	17.1	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.888	n/a	4/21/2020	19.5	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.888	n/a	4/21/2020	12.3	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.888	n/a	4/20/2020	24.5	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.888	n/a	4/21/2020	12.3	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.888	n/a	4/21/2020	37.4	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.888	n/a	4/21/2020	66.2	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.888	n/a	4/21/2020	69.5	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.888	n/a	4/21/2020	24.2	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.888	n/a	4/22/2020	17.6	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.888	n/a	4/22/2020	20.5	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.888	n/a	4/21/2020	9.49	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.888	n/a	4/21/2020	14.8	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.888	n/a	4/20/2020	12	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.888	n/a	4/20/2020	12.1	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.888	n/a	4/21/2020	11.1	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.888	n/a	4/21/2020	26.3	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.888	n/a	4/21/2020	10.1	Yes	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	4/21/2020	0.224	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	4/21/2020	0.218	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	4/21/2020	0.181	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	4/22/2020	0.224	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	4/22/2020	0.167	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	4/21/2020	0.198	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	4/21/2020	0.254	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	4/20/2020	0.245	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	4/21/2020	0.565	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	4/21/2020	0.171	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	4/21/2020	0.173	Yes	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.9	4/21/2020	6.96	Yes	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-21	6.8	3.9	4/21/2020	6.81	Yes	129	0	n/a	0.000236	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	4/21/2020	874	Yes	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	4/21/2020	522	Yes	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	4/21/2020	163	Yes	105	25.71	n/a	0.000...	NP Inter (normality) ...

Interwell Prediction Limits - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 7/13/2020, 3:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	**GC-AP-MW-6**	**103**	**n/a**	**4/21/2020**	**153**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-7**	**103**	**n/a**	**4/21/2020**	**318**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-9**	**103**	**n/a**	**4/21/2020**	**133**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-12**	**103**	**n/a**	**4/21/2020**	**121**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-14**	**103**	**n/a**	**4/21/2020**	**168**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-15**	**103**	**n/a**	**4/20/2020**	**142**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-25**	**174**	**n/a**	**4/22/2020**	**195**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-1**	**174**	**n/a**	**4/21/2020**	**1530**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-2**	**174**	**n/a**	**4/21/2020**	**878**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-3**	**174**	**n/a**	**4/20/2020**	**371**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-5**	**174**	**n/a**	**4/21/2020**	**494**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-6**	**174**	**n/a**	**4/21/2020**	**742**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-7**	**174**	**n/a**	**4/21/2020**	**1010**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-8**	**174**	**n/a**	**4/21/2020**	**638**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-9**	**174**	**n/a**	**4/21/2020**	**578**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-10**	**174**	**n/a**	**4/22/2020**	**338**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-11**	**174**	**n/a**	**4/22/2020**	**249**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-12**	**174**	**n/a**	**4/21/2020**	**291**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-13**	**174**	**n/a**	**4/20/2020**	**201**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-14**	**174**	**n/a**	**4/21/2020**	**628**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-15**	**174**	**n/a**	**4/20/2020**	**369**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-16**	**174**	**n/a**	**4/20/2020**	**461**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-17**	**174**	**n/a**	**4/21/2020**	**490**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-18**	**174**	**n/a**	**4/21/2020**	**429**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-21**	**174**	**n/a**	**4/21/2020**	**265**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**

Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 7/13/2020, 3:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	**GC-AP-MW-25**	**0.1**	**n/a**	**4/22/2020**	**0.104**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-1**	**0.1**	**n/a**	**4/21/2020**	**0.347**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-2**	**0.1**	**n/a**	**4/21/2020**	**0.14**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GC-AP-MW-3	0.1	n/a	4/20/2020	0.1ND	No	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GC-AP-MW-5**	**0.1**	**n/a**	**4/21/2020**	**0.72**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-6**	**0.1**	**n/a**	**4/21/2020**	**1.77**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-7**	**0.1**	**n/a**	**4/21/2020**	**0.793**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-8**	**0.1**	**n/a**	**4/21/2020**	**1.89**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-9**	**0.1**	**n/a**	**4/21/2020**	**1.27**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-10**	**0.1**	**n/a**	**4/22/2020**	**1.23**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-11**	**0.1**	**n/a**	**4/22/2020**	**0.447**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-12**	**0.1**	**n/a**	**4/21/2020**	**0.872**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-13**	**0.1**	**n/a**	**4/20/2020**	**0.642**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-14**	**0.1**	**n/a**	**4/21/2020**	**1.55**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-15**	**0.1**	**n/a**	**4/20/2020**	**0.791**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-16**	**0.1**	**n/a**	**4/20/2020**	**1.83**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-17**	**0.1**	**n/a**	**4/21/2020**	**1.97**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-18**	**0.1**	**n/a**	**4/21/2020**	**1.51**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-21**	**0.1**	**n/a**	**4/21/2020**	**0.586**	**Yes**	**98**	**91.84**	**n/a**	**0.000199**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GC-AP-MW-31	0.1	n/a	4/22/2020	0.1ND	No	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1	n/a	4/22/2020	0.1ND	No	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1	n/a	4/22/2020	0.1ND	No	98	91.84	n/a	0.000199	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.7	n/a	4/22/2020	11.3	No	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	**GC-AP-MW-1**	**42.7**	**n/a**	**4/21/2020**	**90.5**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-2**	**42.7**	**n/a**	**4/21/2020**	**133**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-3**	**42.7**	**n/a**	**4/20/2020**	**91.2**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-5**	**42.7**	**n/a**	**4/21/2020**	**93**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-6**	**42.7**	**n/a**	**4/21/2020**	**142**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-7**	**42.7**	**n/a**	**4/21/2020**	**155**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-8**	**42.7**	**n/a**	**4/21/2020**	**84.8**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-9**	**42.7**	**n/a**	**4/21/2020**	**111**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-10**	**42.7**	**n/a**	**4/22/2020**	**62.9**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	GC-AP-MW-11	42.7	n/a	4/22/2020	36.7	No	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	**GC-AP-MW-12**	**42.7**	**n/a**	**4/21/2020**	**51**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	GC-AP-MW-13	42.7	n/a	4/20/2020	40.3	No	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	**GC-AP-MW-14**	**42.7**	**n/a**	**4/21/2020**	**113**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-15**	**42.7**	**n/a**	**4/20/2020**	**61**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-16**	**42.7**	**n/a**	**4/20/2020**	**90.8**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-17**	**42.7**	**n/a**	**4/21/2020**	**74.4**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-18**	**42.7**	**n/a**	**4/21/2020**	**81.8**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	**GC-AP-MW-21**	**42.7**	**n/a**	**4/21/2020**	**43.1**	**Yes**	**105**	**0**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Calcium (mg/L)	GC-AP-MW-31	42.7	n/a	4/22/2020	5.92	No	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-32	42.7	n/a	4/22/2020	9.87	No	105	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	GC-AP-MW-33	42.7	n/a	4/22/2020	3.15	No	105	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	**GC-AP-MW-25**	**5.888**	**n/a**	**4/22/2020**	**17.1**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-1**	**5.888**	**n/a**	**4/21/2020**	**19.5**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-2**	**5.888**	**n/a**	**4/21/2020**	**12.3**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-3**	**5.888**	**n/a**	**4/20/2020**	**24.5**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-5**	**5.888**	**n/a**	**4/21/2020**	**12.3**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-6**	**5.888**	**n/a**	**4/21/2020**	**37.4**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-7**	**5.888**	**n/a**	**4/21/2020**	**66.2**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-8**	**5.888**	**n/a**	**4/21/2020**	**69.5**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-9**	**5.888**	**n/a**	**4/21/2020**	**24.2**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-10**	**5.888**	**n/a**	**4/22/2020**	**17.6**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-11**	**5.888**	**n/a**	**4/22/2020**	**20.5**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-12**	**5.888**	**n/a**	**4/21/2020**	**9.49**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	GC-AP-MW-13	5.888	n/a	4/20/2020	4.7	No	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	**GC-AP-MW-14**	**5.888**	**n/a**	**4/21/2020**	**14.8**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-15**	**5.888**	**n/a**	**4/20/2020**	**12**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-16**	**5.888**	**n/a**	**4/20/2020**	**12.1**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-17**	**5.888**	**n/a**	**4/21/2020**	**11.1**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-18**	**5.888**	**n/a**	**4/21/2020**	**26.3**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-21**	**5.888**	**n/a**	**4/21/2020**	**10.1**	**Yes**	**105**	**4.762**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	GC-AP-MW-31	5.888	n/a	4/22/2020	5.37	No	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-32	5.888	n/a	4/22/2020	4	No	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-33	5.888	n/a	4/22/2020	5.66	No	105	4.762	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	4/22/2020	0.1ND	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	4/21/2020	0.12	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 7/13/2020, 3:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	4/21/2020	0.126	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	4/20/2020	0.112	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-5**	**0.159**	**n/a**	**4/21/2020**	**0.224**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-6**	**0.159**	**n/a**	**4/21/2020**	**0.218**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	4/21/2020	0.0951	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	4/21/2020	0.114	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-9**	**0.159**	**n/a**	**4/21/2020**	**0.181**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-10**	**0.159**	**n/a**	**4/22/2020**	**0.224**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-11**	**0.159**	**n/a**	**4/22/2020**	**0.167**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-12**	**0.159**	**n/a**	**4/21/2020**	**0.198**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	4/20/2020	0.0844	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-14**	**0.159**	**n/a**	**4/21/2020**	**0.254**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	4/20/2020	0.14	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-16**	**0.159**	**n/a**	**4/20/2020**	**0.245**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-17**	**0.159**	**n/a**	**4/21/2020**	**0.565**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-18**	**0.159**	**n/a**	**4/21/2020**	**0.171**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-21**	**0.159**	**n/a**	**4/21/2020**	**0.173**	**Yes**	**99**	**63.64**	**n/a**	**0.000...**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	4/22/2020	0.1ND	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	4/22/2020	0.1ND	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	4/22/2020	0.1ND	No	99	63.64	n/a	0.000...	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-25	6.8	3.9	4/22/2020	5.26	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-1	6.8	3.9	4/21/2020	5.72	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-2	6.8	3.9	4/21/2020	5.99	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-3	6.8	3.9	4/20/2020	6.4	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-5	6.8	3.9	4/21/2020	6.5	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-6	6.8	3.9	4/21/2020	6.54	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-7	6.8	3.9	4/21/2020	6.39	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-8	6.8	3.9	4/21/2020	6.06	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-9	6.8	3.9	4/21/2020	6.25	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-10	6.8	3.9	4/22/2020	6.44	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-11	6.8	3.9	4/22/2020	6.26	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	**GC-AP-MW-12**	**6.8**	**3.9**	**4/21/2020**	**6.96**	**Yes**	**129**	**0**	**n/a**	**0.000236**	**NP Inter (normality) ...**
pH (SU)	GC-AP-MW-13	6.8	3.9	4/20/2020	6.68	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-14	6.8	3.9	4/21/2020	6.31	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-15	6.8	3.9	4/20/2020	6.16	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-16	6.8	3.9	4/20/2020	6.43	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-17	6.8	3.9	4/21/2020	6.61	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-18	6.8	3.9	4/21/2020	6.31	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	**GC-AP-MW-21**	**6.8**	**3.9**	**4/21/2020**	**6.81**	**Yes**	**129**	**0**	**n/a**	**0.000236**	**NP Inter (normality) ...**
pH (SU)	GC-AP-MW-31	6.8	3.9	4/22/2020	5.75	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-32	6.8	3.9	4/22/2020	5.92	No	129	0	n/a	0.000236	NP Inter (normality) ...
pH (SU)	GC-AP-MW-33	6.8	3.9	4/22/2020	4.71	No	129	0	n/a	0.000236	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	4/22/2020	76.1	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-1**	**103**	**n/a**	**4/21/2020**	**874**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-2**	**103**	**n/a**	**4/21/2020**	**522**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	4/20/2020	10.5	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-5**	**103**	**n/a**	**4/21/2020**	**163**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-6**	**103**	**n/a**	**4/21/2020**	**153**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-7**	**103**	**n/a**	**4/21/2020**	**318**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	4/21/2020	43.3	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-9**	**103**	**n/a**	**4/21/2020**	**133**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	4/22/2020	63.2	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	4/22/2020	58.7	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-12**	**103**	**n/a**	**4/21/2020**	**121**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	4/20/2020	76.5	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	**GC-AP-MW-14**	**103**	**n/a**	**4/21/2020**	**168**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	**GC-AP-MW-15**	**103**	**n/a**	**4/20/2020**	**142**	**Yes**	**105**	**25.71**	**n/a**	**0.000...**	**NP Inter (normality) ...**
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	4/20/2020	49.6	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	4/21/2020	78	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	4/21/2020	19.2	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	4/21/2020	99	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	4/22/2020	3.78	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	4/22/2020	2.51	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	4/22/2020	9.64	No	105	25.71	n/a	0.000...	NP Inter (normality) ...
TDS (mg/L)	**GC-AP-MW-25**	**174**	**n/a**	**4/22/2020**	**195**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-1**	**174**	**n/a**	**4/21/2020**	**1530**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-2**	**174**	**n/a**	**4/21/2020**	**878**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-3**	**174**	**n/a**	**4/20/2020**	**371**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**

Interwell Prediction Limits - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 7/13/2020, 3:29 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
TDS (mg/L)	**GC-AP-MW-5**	**174**	**n/a**	**4/21/2020**	**494**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-6**	**174**	**n/a**	**4/21/2020**	**742**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-7**	**174**	**n/a**	**4/21/2020**	**1010**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-8**	**174**	**n/a**	**4/21/2020**	**638**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-9**	**174**	**n/a**	**4/21/2020**	**578**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-10**	**174**	**n/a**	**4/22/2020**	**338**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-11**	**174**	**n/a**	**4/22/2020**	**249**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-12**	**174**	**n/a**	**4/21/2020**	**291**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-13**	**174**	**n/a**	**4/20/2020**	**201**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-14**	**174**	**n/a**	**4/21/2020**	**628**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-15**	**174**	**n/a**	**4/20/2020**	**369**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-16**	**174**	**n/a**	**4/20/2020**	**461**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-17**	**174**	**n/a**	**4/21/2020**	**490**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-18**	**174**	**n/a**	**4/21/2020**	**429**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	**GC-AP-MW-21**	**174**	**n/a**	**4/21/2020**	**265**	**Yes**	**105**	**16.19**	**n/a**	**0.000...**	**NP Inter (normality) ...**
TDS (mg/L)	GC-AP-MW-31	174	n/a	4/22/2020	49.3	No	105	16.19	n/a	0.000...	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-32	174	n/a	4/22/2020	52.7	No	105	16.19	n/a	0.000...	NP Inter (normality) ...
TDS (mg/L)	GC-AP-MW-33	174	n/a	4/22/2020	62.7	No	105	16.19	n/a	0.000...	NP Inter (normality) ...

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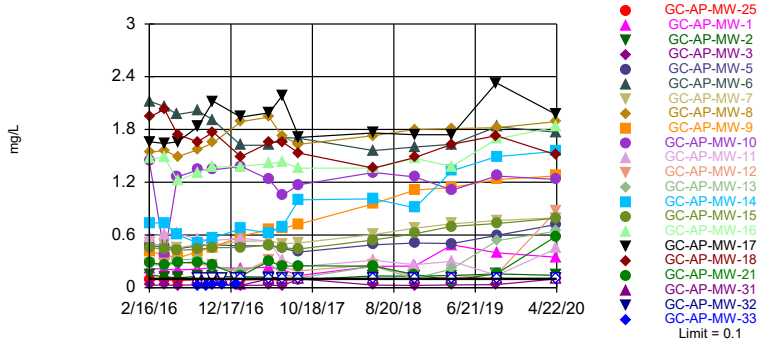
Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-25, GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 98 background values. 91.84% NDs. Annual per-constituent alpha = 0.008718. Individual comparison alpha = 0.000199 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 7/13/2020 2:58 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

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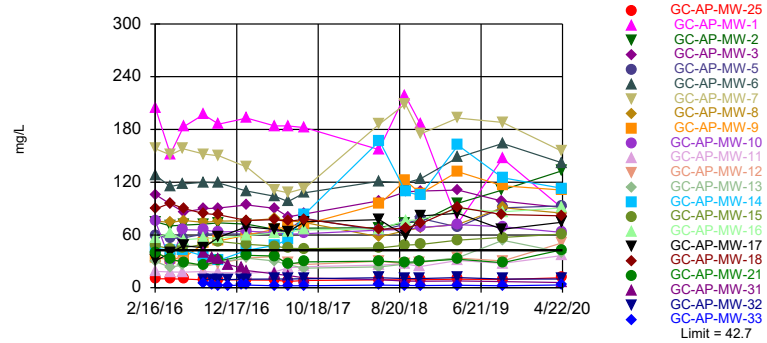
Exceeds Limit: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9,..

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 105 background values. Annual per-constituent alpha = 0.007723. Individual comparison alpha = 0.0001762 (1 of 2). Comparing 22 points to limit.

Constituent: Calcium Analysis Run 7/13/2020 2:58 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

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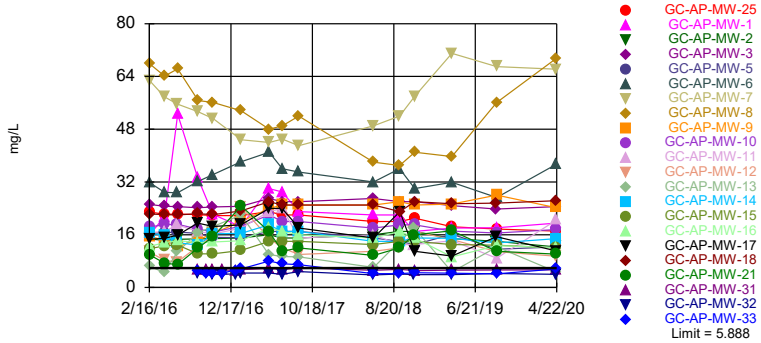
Exceeds Limit: GC-AP-MW-25, GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7,..

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=0.7612, Std. Dev.=0.4718, n=105, 4.762% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 8.81, critical = 14.07. Kappa = 2.144 (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 7/13/2020 2:58 PM View: Interwell PL

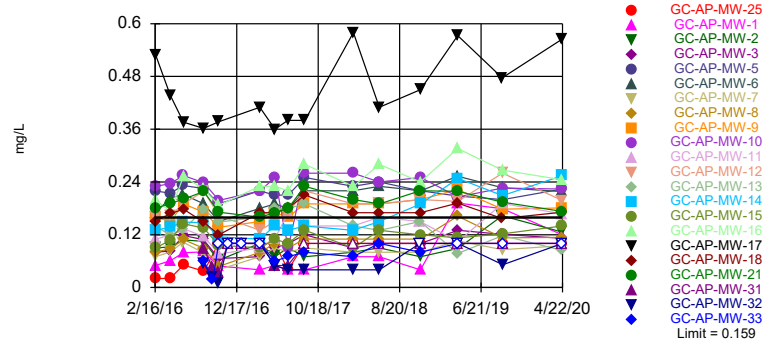
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-14,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 99 background values. 63.64% NDs. Annual per-constituent alpha = 0.00853. Individual comparison alpha = 0.0001947 (1 of 2). Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 7/13/2020 2:58 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-9	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-23 (bg)	GC-AP-MW-3
2/16/2016	0.273	1.54	0.412	0.286	0.26	0.739	1.44		
2/17/2016								0.0271 (J)	0.0288 (J)
4/12/2016					0.26	0.733		<0.1	0.0293 (J)
4/13/2016	0.276	1.56	0.376	0.26			0.373		
5/31/2016	0.291				0.318	0.603	1.26		
6/1/2016		1.49	0.338	0.283				<0.1	0.0279 (J)
8/15/2016									0.0332 (J)
8/16/2016	0.268			0.292	0.322		1.34	<0.1	
8/17/2016		1.57	0.412			0.509			
9/19/2016									
9/20/2016									
10/11/2016								0.024 (J)	0.0328 (J)
10/12/2016	0.252	1.65	0.46	0.254	0.244	0.569	1.34		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								0.0333 (J)	0.0262 (J)
1/25/2017	0.167	1.89	0.586	0.133	0.188	0.671	1.38		
1/26/2017									
5/9/2017	0.32			0.304	0.281	0.622		<0.1	0.0298 (J)
5/10/2017		1.94	0.661				1.23		
6/27/2017								<0.1	
6/28/2017	0.231	1.72	0.673	0.243	0.153	0.695	1.05		0.0226 (J)
8/29/2017	0.191	1.63	0.723	0.249	0.112	1	1.17	<0.1	
8/30/2017									<0.1
6/4/2018									0.0296 (J)
6/5/2018		1.73	0.954				1.31	<0.1	
6/6/2018	0.26			0.245	0.244	1.01			
11/5/2018	0.127			0.151	0.104				
11/6/2018									0.0268 (J)
11/7/2018		1.8	1.11			0.908	1.26	<0.1	
3/26/2019	0.111	1.81	1.14	0.0834 (J)	0.213			<0.1	
3/27/2019						1.33	1.11		0.0316 (J)
9/9/2019									0.035 (J)
9/10/2019	0.153	1.82	1.23	0.16		1.49	1.27	<0.1	
9/11/2019					0.535				
4/20/2020					0.642				<0.1
4/21/2020	0.872	1.89	1.27	0.586		1.55		<0.1	
4/22/2020							1.23		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-2	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-5	GC-AP-MW-11	GC-AP-MW-25
2/16/2016									
2/17/2016	0.146	0.219	0.454	1.47	1.66	1.94	0.478	0.581	0.0922 (J)
4/12/2016			0.444			2.03	0.467		0.0935 (J)
4/13/2016	0.125	0.211		1.48	1.64			0.61	
5/31/2016			0.424				0.443	0.615	
6/1/2016	0.114	0.2		1.22	1.66	1.74			0.0826 (J)
8/15/2016	0.128	0.211		1.31	1.83	1.66			
8/16/2016			0.438					0.554	
8/17/2016							0.477		0.092 (J)
9/19/2016									
9/20/2016									
10/11/2016	0.129	0.23	0.456				0.489		0.0976 (J)
10/12/2016				1.37	2.12	1.77		0.537	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	0.124	0.218	0.458	1.38	1.94	1.49	0.475		0.0877 (J)
1/25/2017								0.562	
1/26/2017									
5/9/2017	0.121	0.235					0.479	0.528	0.0953 (J)
5/10/2017			0.486	1.41	1.99	1.65			
6/27/2017		0.206	0.454	1.43	2.18	1.66			
6/28/2017	0.111						0.448	0.313	0.0835 (J)
8/29/2017								0.241	0.0914 (J)
8/30/2017	0.0915 (J)	0.138	0.441	1.36	1.71	1.53	0.407		
6/4/2018	0.134	0.242							
6/5/2018			0.543	1.36	1.76	1.36	0.489	0.311	
6/6/2018									0.102
11/5/2018								0.262	
11/6/2018	0.131	0.247	0.614	1.47	1.74	1.48	0.508		0.0995 (J)
11/7/2018									
3/26/2019			0.697	1.38	1.74	1.63			
3/27/2019	0.138	0.488					0.502	0.298	0.113
9/9/2019	0.157				2.33	1.73			
9/10/2019		0.398	0.73	1.69				0.141	0.105
9/11/2019							0.595		
4/20/2020			0.791	1.83					
4/21/2020	0.14	0.347			1.97	1.51	0.72		
4/22/2020								0.447	0.104

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-24 (bg)	GC-AP-MW-6	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	0.503	<0.1	2.12						
4/12/2016		<0.1	2.06						
4/13/2016	0.478								
5/31/2016	0.452		1.97						
6/1/2016		<0.1							
8/15/2016									
8/16/2016		<0.1		<0.1	0.0268 (J)	<0.1	<0.1	<0.1	
8/17/2016	0.492		2.01						<0.1
9/19/2016					0.0225 (J)		<0.1	<0.1	
9/20/2016				<0.1		<0.1			<0.1
10/11/2016		<0.1	1.91	<0.1	0.0304 (J)	<0.1	<0.1	<0.1	
10/12/2016	0.487								<0.1
11/14/2016					0.0355 (J)		<0.1	<0.1	
11/15/2016				0.0229 (J)		<0.1			<0.1
1/3/2017					0.0304 (J)		<0.1	<0.1	
1/4/2017				<0.1		<0.1			<0.1
1/23/2017						<0.1			
1/24/2017		<0.1	1.62				0.0282 (J)	<0.1	0.0331 (J)
1/25/2017	0.529				<0.1				
1/26/2017				<0.1					
5/9/2017				<0.1		<0.1			<0.1
5/10/2017	0.533	<0.1	1.62		<0.1		<0.1	<0.1	
6/27/2017				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
6/28/2017	0.501	<0.1	1.71						
8/29/2017	0.51	<0.1	1.7						
8/30/2017				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
6/4/2018									
6/5/2018	0.605	<0.1	1.56	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
6/6/2018									
11/5/2018								<0.1	
11/6/2018				<0.1	<0.1	<0.1	<0.1		<0.1
11/7/2018	0.677	<0.1	1.6						
3/26/2019	0.727	<0.1	1.63	<0.1		<0.1			<0.1
3/27/2019					<0.1		<0.1	<0.1	
9/9/2019									
9/10/2019	0.764	<0.1	1.83						
9/11/2019				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4/20/2020									
4/21/2020	0.793		1.77	<0.1		<0.1			<0.1
4/22/2020		<0.1			<0.1		<0.1	<0.1	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (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	<0.1	<0.1
9/19/2016		
9/20/2016	<0.1	<0.1
10/11/2016		
10/12/2016	0.02 (J)	<0.1
11/14/2016		
11/15/2016	<0.1	<0.1
1/3/2017		
1/4/2017	<0.1	<0.1
1/23/2017	0.0287 (J)	0.0217 (J)
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	<0.1	<0.1
5/10/2017		
6/27/2017	<0.1	<0.1
6/28/2017		
8/29/2017	<0.1	<0.1
8/30/2017		
6/4/2018		
6/5/2018	<0.1	<0.1
6/6/2018		
11/5/2018		
11/6/2018	<0.1	<0.1
11/7/2018		
3/26/2019	<0.1	<0.1
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	<0.1	<0.1
4/20/2020		
4/21/2020	<0.1	<0.1
4/22/2020		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-18	GC-AP-MW-17
2/16/2016	33.9	75.9	76.3	34.6	29.8	40.4	44.4		
2/17/2016								89.6	30.7
4/12/2016					23.3		43.2	96.2	
4/13/2016	32.5	74.1	30.5	32.2		32.2			39.5
5/31/2016			65.9	28.8	25.9		43		
6/1/2016	33.9	76.4				29.3		90.2	47.7
8/15/2016								84.4	45.6
8/16/2016			65.6	24	25.5	25.4			
8/17/2016	50.3	74.2					35.9		
9/19/2016									
9/20/2016									
10/11/2016									
10/12/2016	53.3	75.7	63.4	27.8	29.5	30.7	31.1	82.9	57.6
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								76.4	69.4
1/25/2017	59.9	76.1	64.2	33.7	33.6	36.8	42.7		
1/26/2017									
5/9/2017				35.5	30.4	36.1	48.1		
5/10/2017	66.5	78.6	62.6					77.4	66.2
6/27/2017								75.4	63.8
6/28/2017	69.8	76.4	60.8	28	26	26.9	55		
8/29/2017	72	74.1	61.4	26.4	22.3	29.4	83.6		
8/30/2017								78	75.1
6/4/2018									
6/5/2018	95.1	58	65.5					66.3	77.4
6/6/2018				30.1	23.7	30.2	167		
9/10/2018						28.8			
9/11/2018	122	64.9	66.1	27.4	26.8				
9/12/2018							109	67.8	58.9
11/5/2018				28.8	29.4	29.7			
11/6/2018								72.7	81.6
11/7/2018	107	68.1	68.5				105		
3/26/2019	132	72		33.7	34.1	32.4		91.5	84.7
3/27/2019			71.8				162		
9/9/2019								83.2	66.4
9/10/2019	116	91	69.3	30.5		28.4	125		
9/11/2019					53.9				
4/20/2020					40.3				
4/21/2020	111	84.8		51		43.1	113	81.8	74.4
4/22/2020			62.9						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-11	GC-AP-MW-7	GC-AP-MW-2
2/16/2016									
2/17/2016	57	204	47.7	106	59.8	128	18.6	158	75
4/12/2016			44.4	95.2	56.1	115			
4/13/2016	62.5	152					17.8	151	70.2
5/31/2016			45.3		56.6	118	17.7	158	
6/1/2016	54.4	183		86.1					71.2
8/15/2016	56.2	197		89.7					72.2
8/16/2016			49.4				18.4		
8/17/2016					61	120		152	
9/19/2016									
9/20/2016									
10/11/2016		186	52.7	90.6	61.3	119			73.8
10/12/2016	56.6						17.3	150	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	59.1	193	49.4	94.2	61	110			72.2
1/25/2017							16.6	137	
1/26/2017									
5/9/2017		184		90.3	61.7		18		66.4
5/10/2017	62.5		47.4			104		111	
6/27/2017	63.6	184	44.9						
6/28/2017				80.7	66.1	98	22.6	108	65.4
8/29/2017						108	23.9	113	
8/30/2017	65.7	182	44.4	84	78.9				67.8
6/4/2018		157		98.8					68.3
6/5/2018	66.8		45.1		64.8	121	25.7	186	
6/6/2018									
9/10/2018		219					27.2		73.9
9/11/2018			48.5		72.2	119		209	
9/12/2018	76.3			109					
11/5/2018							24.1		
11/6/2018	77.4	186	49.2	110	78.9				75.1
11/7/2018						124		175	
3/26/2019	90		54			148		193	
3/27/2019		73.8		111	69.1		31		96.1
9/9/2019				98.5					111
9/10/2019	86.3	147	57.2			164	27.7	188	
9/11/2019					90.8				
4/20/2020	90.8		61	91.2					
4/21/2020		90.5			93	142		155	133
4/22/2020							36.7		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	10.2	38.7	6.54						
4/12/2016	10	42.7	6.15						
4/13/2016									
5/31/2016									
6/1/2016	9.87	41.8	5.7						
8/15/2016									
8/16/2016		40.9	6.77	39.5	2.02	1.24	5.54	9.33	
8/17/2016	8.88								1.1
9/19/2016				34.5			3.01	9.26	
9/20/2016					1.22	1.11			0.771
10/11/2016	9.22	38.1	8.84	32.4	1.48	1.22	2.74	9.31	
10/12/2016									0.711
11/14/2016				26.5			2.47	9.17	
11/15/2016					1.36	1.34			0.641
1/3/2017				22.6			2.94	9.66	
1/4/2017					1.11	2.39			0.797
1/23/2017						1.83			0.655
1/24/2017	8.72	27.7	12.8	19.5				9.67	
1/25/2017							2.91		
1/26/2017					1.03				
5/9/2017	8.56	29.3			0.289 (J)	0.823			0.538
5/10/2017			12.4	15.7			2.27	9.81	
6/27/2017		28.6		13.8	0.292 (J)	0.956	2.2	9.88	0.413 (J)
6/28/2017	7.16		17.9						
8/29/2017	8.32	32.3	19						0.504
8/30/2017				11.1	0.336 (J)	1.04	2.26	10.3	
6/4/2018									
6/5/2018		34.5	30	9.12	0.2 (J)	1.18	2.97	11.4	0.339 (J)
6/6/2018	9.05								
9/10/2018									
9/11/2018		32	28.7	7.5	0.171 (J)	1.5	2.6	10.5	0.776
9/12/2018	8.98								
11/5/2018								10.5	
11/6/2018	9.21			7.39	0.193 (J)	1.64	2.42		0.746
11/7/2018		30.3	30.7						
3/26/2019		31.3	32.3		0.223 (J)	1.33			0.526
3/27/2019	9.77			7.65			2.75	11.6	
9/9/2019									
9/10/2019	9.28	30.7	32.8						
9/11/2019				6.96	0.158 (J)	0.925	2.17	9.95	0.638
4/20/2020									
4/21/2020		30.8			0.287 (J)	0.864			1.15
4/22/2020	11.3		31.4	5.92			3.15	9.87	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

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	5.88	7.74
9/19/2016		
9/20/2016	5.95	2.43
10/11/2016		
10/12/2016	6.1	2.46
11/14/2016		
11/15/2016	6.28	2.28
1/3/2017		
1/4/2017	4.97	2.7
1/23/2017	5.17	
1/24/2017		4.19
1/25/2017		
1/26/2017		
5/9/2017	15.7	3.28
5/10/2017		
6/27/2017	14.2	3.76
6/28/2017		
8/29/2017	11.1	
8/30/2017		2.31
6/4/2018		
6/5/2018	3.93	2.76
6/6/2018		
9/10/2018		
9/11/2018	3.76	2.04
9/12/2018		
11/5/2018		
11/6/2018	4.81	2
11/7/2018		
3/26/2019	3.18	2.13
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	3.98	1.98
4/20/2020		
4/21/2020	3.83	2.41
4/22/2020		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-18	GC-AP-MW-17
2/16/2016	15.6	67.9	18.4	10.8	6.52	9.95	16.4		
2/17/2016								22.3	14.6
4/12/2016					4.47		15.9	22.1	
4/13/2016	14.3	64.1	19	8.2		7.33			14.9
5/31/2016			19.2	7.74	10.8		13.6		
6/1/2016	12.6	66.3				6.97		22	15.9
8/15/2016								22.4	19.5
8/16/2016			17.7	12.5	16.6	12			
8/17/2016	14.4	56.7					12.8		
9/19/2016									
9/20/2016									
10/11/2016									
10/12/2016	16.4	56.1	16.8	15.7	18.5	15.4	16.3	22.1	18.5
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								23.2	19
1/25/2017	20	53.6	18.6	24.4	22	24.7	16.4		
1/26/2017									
5/9/2017				15	10	17	19		
5/10/2017	24	48	22					26	24
6/27/2017								25	24
6/28/2017	25	49	20	12	9.4	11	17		
8/29/2017	25	52	20	10	9.3	12	17		
8/30/2017								25	18
6/4/2018									
6/5/2018	25	38	18					25	15
6/6/2018				11	6.1	9.7	14		
9/10/2018						12			
9/11/2018	26	37	19	12	14				
9/12/2018							14	23	23
11/5/2018				17	18	16			
11/6/2018								26	11
11/7/2018	25	41	19				15		
3/26/2019	25.3	39.7		14.5	4.7	17.2		25.4	9.52
3/27/2019			17.1				14.9		
9/9/2019								25.6	15.4
9/10/2019	28	56.1	16.5	10.9		11	13.5		
9/11/2019					12.3				
4/20/2020					4.7				
4/21/2020	24.2	69.5		9.49		10.1	14.8	26.3	11.1
4/22/2020			17.6						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-11	GC-AP-MW-7	GC-AP-MW-2
2/16/2016									
2/17/2016	12.5	16	11.8	25.2	16.4	31.8	16.6	62.7	14.7
4/12/2016			12.6	24.6	16.6	28.9			
4/13/2016	13.6	21.5					17	57.8	14.3
5/31/2016			12.9		16.8	28.7	19	55.6	
6/1/2016	14.2	52.5		24.5					14.6
8/15/2016	13.6	33.3		24.2					14.7
8/16/2016			10.2				17		
8/17/2016					16.4	32.2		53.3	
9/19/2016									
9/20/2016									
10/11/2016		22.2	10.2	24.4	15.2	34.2			14.8
10/12/2016	13.8						16.2	51.2	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	14.2	18.4	11.2	24.6	15.1	38.1			15
1/25/2017							18	44.8	
1/26/2017									
5/9/2017		30		27	17		23		16
5/10/2017	18		14			41		44	
6/27/2017	17	29	14						
6/28/2017				26	17	36	24	45	15
8/29/2017						35	15	43	
8/30/2017	16	23	14	26	17				15
6/4/2018		22		27					16
6/5/2018	15		13		15	32	16	49	
6/6/2018									
9/10/2018		22					13		17
9/11/2018			14		14	36		52	
9/12/2018	17			26					
11/5/2018							13		
11/6/2018	15	17	14	26	13				17
11/7/2018						30		58	
3/26/2019	9.27		13			31.9		71	
3/27/2019		18		24.8	16.1		14.2		14.8
9/9/2019				23.8					14
9/10/2019	12.7	18.1	12.8			27.3	8.88	67	
9/11/2019					11.6				
4/20/2020	12.1		12	24.5					
4/21/2020		19.5			12.3	37.4		66.2	12.3
4/22/2020							20.5		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	22.9	1.54	3.3						
4/12/2016	22.2	1.51	3.25						
4/13/2016									
5/31/2016									
6/1/2016	22.3	1.46	3.55						
8/15/2016									
8/16/2016		1.5	3.45	5.32	2.21	2.54	4.88	4.24	
8/17/2016	22.1								1.78
9/19/2016				5.29			4.45	4.13	
9/20/2016					2.12	2.51			1.61
10/11/2016	21.8	1.52	3.78	5.26	2.24	2.34	4.36	4.07	
10/12/2016									1.51
11/14/2016				5.28			4.42	4.08	
11/15/2016					6.65	2.1			1.5
1/3/2017				5.18			5.18	4.06	
1/4/2017					2.15	2.44			1.53
1/23/2017						2.37			1.62
1/24/2017	21.8	1.38	4.61	5.41				4.4	
1/25/2017							5.66		
1/26/2017					2.31				
5/9/2017	23	2.4			2.3	2.8			2.2
5/10/2017			5.9	5.8			8	4.4	
6/27/2017		2.1		5.4	2.1	2.1	7.2	4	1.9 (J)
6/28/2017	22		5.7						
8/29/2017	22	2.4	6.8						2
8/30/2017				6	2.8	3	6.9	4.8	
6/4/2018									
6/5/2018		1.7 (J)	7.9	5.2	1.8 (J)	2.3	4.2	3.8	1.9 (J)
6/6/2018	20								
9/10/2018									
9/11/2018		1.5 (J)	6.1	5.5	<2	1.5 (J)	4.2	4.1	<2
9/12/2018	20								
11/5/2018								3.9	
11/6/2018	21			5.1	<2	1.4 (J)	4.5		1.9 (J)
11/7/2018		1.4 (J)	5.2						
3/26/2019		1.23	6.92		1.07	2.42			2.18
3/27/2019	18.4			5.26			4.33	3.9	
9/9/2019									
9/10/2019	17.7	1.38	4.39						
9/11/2019				5.31	1.19	3.72	4.16	4.21	1.7
4/20/2020									
4/21/2020		1.08			1.09	3.89			1.9
4/22/2020	17.1		2.75	5.37			5.66	4	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

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	2.44	1.77
9/19/2016		
9/20/2016	2.54	1.56
10/11/2016		
10/12/2016	2.67	1.54
11/14/2016		
11/15/2016	2.94	1.53
1/3/2017		
1/4/2017	2.92	1.58
1/23/2017	3.21	
1/24/2017		1.71
1/25/2017		
1/26/2017		
5/9/2017	2.5	2.1
5/10/2017		
6/27/2017	3	2
6/28/2017		
8/29/2017	3.6	
8/30/2017		1.5 (J)
6/4/2018		
6/5/2018	2.2	1.2 (J)
6/6/2018		
9/10/2018		
9/11/2018	1.5 (J)	<2
9/12/2018		
11/5/2018		
11/6/2018	2.5	<2
11/7/2018		
3/26/2019	2	1.2
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	2.34	1.26
4/20/2020		
4/21/2020	2.04	1.32
4/22/2020		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-12	GC-AP-MW-21	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-2	GC-AP-MW-3
2/16/2016	0.13 (J)	0.14 (J)	0.16 (J)	0.18 (J)	0.23 (J)	0.16 (J)	0.08 (J)		
2/17/2016								0.09 (J)	0.08 (J)
4/12/2016	0.137 (J)	0.119 (J)							0.083 (J)
4/13/2016			0.163 (J)	0.191 (J)	0.236 (J)	0.15 (J)	0.088 (J)	0.092 (J)	
5/31/2016	0.149 (J)	0.132 (J)	0.19 (J)		0.255 (J)				
6/1/2016				0.201 (J)		0.19 (J)	0.109 (J)	0.108 (J)	0.118 (J)
8/15/2016								0.105 (J)	0.109 (J)
8/16/2016		0.177 (J)	0.219 (J)	0.218 (J)	0.238 (J)				
8/17/2016	0.147 (J)					0.171 (J)	0.089 (J)		
9/19/2016									
9/20/2016									
10/11/2016								0.062 (J)	0.066 (J)
10/12/2016	0.115 (J)	0.149 (J)	0.163 (J)	0.171 (J)	0.198 (J)	0.137 (J)	0.048 (J)		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	0.11							<0.1	0.07 (J)
3/15/2017		0.16	0.13	0.16	0.22	0.15	0.08 (J)		
5/9/2017	0.14	0.18	0.15	0.17				0.07 (J)	0.09 (J)
5/10/2017					0.25	0.17	0.1		
6/27/2017									
6/28/2017	0.13	0.18	0.17	0.18	0.09 (J)	0.16	0.09 (J)	0.09 (J)	0.1
8/29/2017	0.14	0.19	0.22	0.23	0.26	0.19	0.11		
8/30/2017								0.07 (J)	0.12
2/27/2018	0.13				0.26	0.19	0.11	0.08 (J)	0.09 (J)
2/28/2018		0.14	0.19	0.2					
6/4/2018								0.09 (J)	0.1
6/5/2018					0.24	0.19	0.11		
6/6/2018	0.15	0.13	0.19	0.19					
11/5/2018		0.15	0.2	0.22					
11/6/2018								0.07 (J)	0.1
11/7/2018	0.19				0.25	0.2	0.11		
3/26/2019		0.0775 (J)	0.196	0.219		0.223	0.162		
3/27/2019	0.248				0.206			0.089 (J)	0.13
9/9/2019								0.163	0.121
9/10/2019	0.209		0.26	0.194	0.226	0.178	0.113		
9/11/2019		0.118							
4/20/2020		0.0844 (J)							0.112
4/21/2020	0.254		0.198	0.173		0.181	0.114	0.126	
4/22/2020					0.224				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-18	GC-AP-MW-17	GC-AP-MW-7	GC-AP-MW-1	GC-AP-MW-16	GC-AP-MW-11	GC-AP-MW-15	GC-AP-MW-6
2/16/2016									
2/17/2016	0.22 (J)	0.15 (J)	0.53	0.07 (J)	0.05 (J)	0.2 (J)	0.11 (J)	0.09 (J)	0.17 (J)
4/12/2016	0.214 (J)	0.168 (J)						0.107 (J)	0.203 (J)
4/13/2016			0.437	0.081 (J)	0.061 (J)	0.173 (J)	0.119 (J)		
5/31/2016	0.232 (J)			0.103 (J)			0.134 (J)	0.145 (J)	0.212 (J)
6/1/2016		0.178 (J)	0.376		0.079 (J)	0.253 (J)			
8/15/2016		0.149 (J)	0.362		0.081 (J)	0.224 (J)			
8/16/2016							0.116 (J)	0.135 (J)	
8/17/2016	0.225 (J)			0.078 (J)					0.19 (J)
9/19/2016									
9/20/2016									
10/11/2016	0.19 (J)				0.049 (J)			0.096 (J)	0.15 (J)
10/12/2016		0.12 (J)	0.377	0.041 (J)		0.187 (J)	0.076 (J)		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	0.22	0.17	0.41	0.07 (J)	0.04 (J)	0.23	0.09 (J)	0.09 (J)	0.18
3/15/2017									
5/9/2017	0.21				0.05 (J)		0.11		
5/10/2017		0.17	0.36	0.09 (J)		0.23		0.11	0.19
6/27/2017		0.18	0.38		0.04 (J)	0.22		0.1	
6/28/2017	0.21			0.08 (J)			0.17		0.18
8/29/2017				0.09 (J)			0.14		0.22
8/30/2017	0.25	0.21	0.38		0.04 (J)	0.28		0.13	
2/27/2018	0.23			0.08 (J)	0.07 (J)		0.14		0.22
2/28/2018		0.17	0.58			0.23		0.09 (J)	
6/4/2018					0.07 (J)				
6/5/2018	0.24	0.17	0.41	0.08 (J)		0.28	0.16	0.13	0.23
6/6/2018									
11/5/2018							0.15		
11/6/2018	0.22	0.17	0.45		0.04 (J)	0.24		0.12	
11/7/2018				0.08 (J)					0.22
3/26/2019		0.192	0.573	0.106		0.316		0.113	0.253
3/27/2019	0.208				0.192		0.104		
9/9/2019		0.157	0.477						
9/10/2019				0.086 (J)	0.179	0.267	0.191	0.122	0.227
9/11/2019	0.2								
4/20/2020						0.245		0.14	
4/21/2020	0.224	0.171	0.565	0.0951 (J)	0.12				0.218
4/22/2020							0.167		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	0.02 (J)	0.08 (J)	0.02 (J)						
4/12/2016	0.021 (J)	0.077 (J)	0.026 (J)						
4/13/2016									
5/31/2016									
6/1/2016	0.051 (J)	0.101 (J)	0.057 (J)						
8/15/2016									
8/16/2016		0.093 (J)	0.046 (J)	0.05 (J)	0.036 (J)	0.087 (J)	0.061 (J)	0.054 (J)	
8/17/2016	0.037 (J)								0.039 (J)
9/19/2016						0.045 (J)	0.018 (J)	0.023 (J)	
9/20/2016				0.015 (J)	<0.1				0.01 (o)
10/11/2016	<0.1	0.059 (J)	<0.1	<0.1	<0.1	0.034 (J)	<0.1	0.011 (J)	
10/12/2016									<0.1
11/14/2016						<0.1	<0.1	<0.1	
11/15/2016				<0.1	<0.1				<0.1
1/3/2017						<0.1	<0.1	<0.1	
1/4/2017				<0.1	<0.1				<0.1
3/13/2017				<0.1					
3/14/2017	<0.1	0.07 (J)	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1
3/15/2017									
5/9/2017	<0.1	0.08 (J)		<0.1	<0.1				<0.1
5/10/2017			<0.1			0.05 (J)	0.06 (J)	0.05 (J)	
6/27/2017		0.08 (J)		<0.1	<0.1	0.05 (J)	0.07 (J)	0.04 (J)	<0.1
6/28/2017	0.04 (J)		<0.1						
8/29/2017	<0.1	0.1	0.04 (J)						<0.1
8/30/2017				<0.1	<0.1	<0.1	0.08 (J)	0.04 (J)	
2/27/2018		0.08 (J)	<0.1	<0.1	<0.1	<0.1	0.07 (J)	0.04 (J)	<0.1
2/28/2018	<0.1								
6/4/2018									
6/5/2018		0.09 (J)	0.04 (J)	<0.1	<0.1	<0.1	0.1	0.04 (J)	<0.1
6/6/2018	<0.1								
11/5/2018								<0.1	
11/6/2018	<0.1			<0.1	<0.1	<0.1	0.08 (J)		<0.1
11/7/2018		0.08 (J)	<0.1						
3/26/2019		0.123	<0.1	<0.1	<0.1				<0.1
3/27/2019	<0.1					<0.1	<0.1	<0.1	
9/9/2019									
9/10/2019	<0.1	0.0914 (J)	0.0545 (J)						
9/11/2019				<0.1	<0.1	<0.1	<0.1	0.0518 (J)	<0.1
4/20/2020									
4/21/2020		0.095 (J)		<0.1	<0.1				<0.1
4/22/2020	<0.1		<0.1			<0.1	<0.1	<0.1	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

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	0.055 (J)	0.159 (J)
9/19/2016		
9/20/2016	0.021 (o)	0.126 (J)
10/11/2016		
10/12/2016	<0.1	0.1 (J)
11/14/2016		
11/15/2016	<0.1	0.016 (J)
1/3/2017		
1/4/2017	<0.1	<0.1
3/13/2017		0.31 (o)
3/14/2017	<0.1	
3/15/2017		
5/9/2017	<0.1	0.25 (o)
5/10/2017		
6/27/2017	<0.1	0.22 (o)
6/28/2017		
8/29/2017		0.22 (o)
8/30/2017	<0.1	
2/27/2018	<0.1	0.08 (J)
2/28/2018		
6/4/2018		
6/5/2018	<0.1	0.07 (J)
6/6/2018		
11/5/2018		
11/6/2018	<0.1	0.07 (J)
11/7/2018		
3/26/2019	<0.1	<0.1
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	0.0649 (J)	0.0716 (J)
4/20/2020		
4/21/2020	<0.1	<0.1
4/22/2020		

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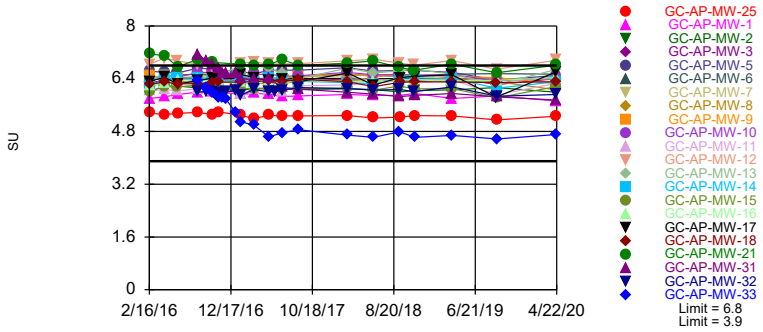
Exceeds Limits: GC-AP-MW-12, GC-AP-MW-21

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 129 background values. Annual per-constituent alpha = 0.01036. Individual comparison alpha = 0.000236 (1 of 2). Comparing 22 points to limit.

Constituent: pH Analysis Run 7/13/2020 2:58 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

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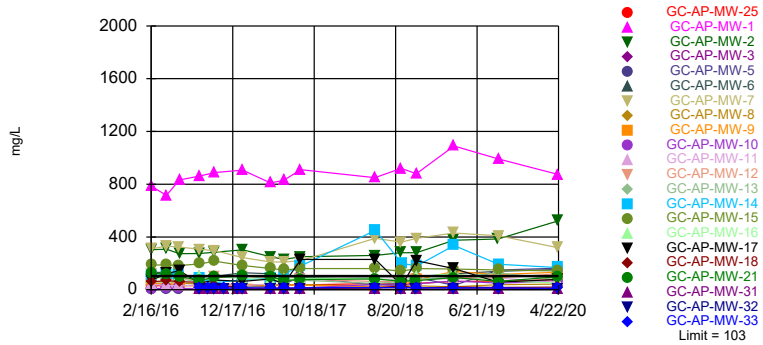
Hollow symbols indicate censored values.

Exceeds Limit: 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-12,..

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 105 background values. 25.71% NDs. Annual per-constituent alpha = 0.007723. Individual comparison alpha = 0.0001762 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 7/13/2020 2:59 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

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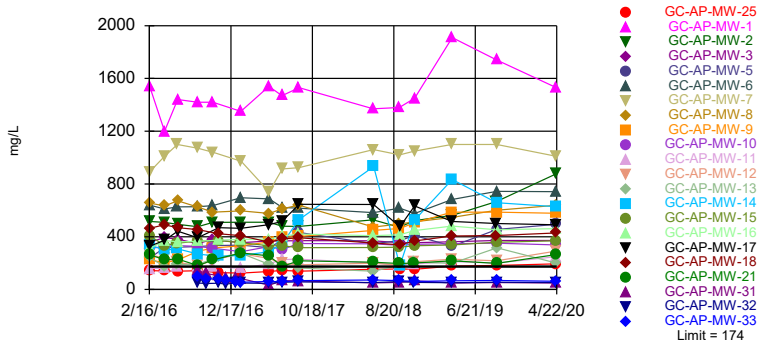
Exceeds Limit: GC-AP-MW-25, GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7,..

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 105 background values. 16.19% NDs. Annual per-constituent alpha = 0.007723. Individual comparison alpha = 0.0001762 (1 of 2). Comparing 22 points to limit.

Constituent: TDS Analysis Run 7/13/2020 2:59 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

Prediction Limit

Constituent: pH (SU) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-10	GC-AP-MW-2	GC-AP-MW-17
2/16/2016	6.21	6.4	6.16	7.15	6.5	6.84	6.29		
2/17/2016								6.01	6.32
4/12/2016	6.37	6.41							
4/13/2016			6.29	7.1	6.32	7.03	6.21	6.17	6.44
5/31/2016	6.42	6.22				6.94	6.45		
6/1/2016			6.33	6.76	6.43			6.18	6.24
8/15/2016								6.12	6.34
8/16/2016		6.41		6.99		6.84	6.58		
8/17/2016	6.42		6.27		6.46				
9/19/2016									
9/20/2016									
10/11/2016								6.09	
10/12/2016	6.38	6.42	6.3	6.89	6.53	6.75	6.6		6.42
10/31/2016									
11/1/2016	6.33	6.55							
11/2/2016									6.48
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								6.04	6.53
1/25/2017	6.37	6.76	6.27	6.84	6.45	6.87	6.47		
1/26/2017									
3/13/2017									
3/14/2017	6.3							6.11	6.43
3/15/2017		6.82	6.27	6.78	6.39	6.9	6.54		
5/9/2017	6.43	6.7		6.83		6.85		6.1	
5/10/2017			6.25		6.39		6.53		6.33
5/31/2017									
6/27/2017									6.38
6/28/2017	6.4	6.58	6.25	6.98	6.4	6.85	6.49	6.09	
8/29/2017	6.32	6.4	6.32	6.8	6.47	6.86	6.49		
8/30/2017								6.07	6.31
2/27/2018	6.28		6.36		6.54		6.59	6.09	
2/28/2018		6.72		6.87		6.94			6.57
6/4/2018								6.07	
6/5/2018			6.3		6.47		6.52		6.21
6/6/2018	6.25	6.57		6.94		6.99			
9/10/2018				6.74				6	
9/11/2018		6.64	6.36		6.53	6.87	6.53		
9/12/2018	6.42								6.43
11/5/2018		6.69		6.66		6.81			
11/6/2018								6.04	6.47
11/7/2018	6.42		6.31		6.49		6.51		
3/26/2019		6.54	6.32	6.84	6.47	6.95			6.52
3/27/2019	6.41						6.53	6.06	
9/9/2019								6.13	5.84
9/10/2019	6.11		6.31	6.58	6.43	6.69	6.33		
9/11/2019		6.22							

Prediction Limit

Constituent: pH (SU) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-10	GC-AP-MW-2	GC-AP-MW-17
4/20/2020		6.68							
4/21/2020	6.31		6.06	6.81	6.25	6.96		5.99	6.61
4/22/2020							6.44		

Prediction Limit

Constituent: pH (SU) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-3	GC-AP-MW-18	GC-AP-MW-25	GC-AP-MW-15	GC-AP-MW-5	GC-AP-MW-1	GC-AP-MW-24 (bg)	GC-AP-MW-23 (bg)
2/16/2016									
2/17/2016	6.18	6.29	6.23	5.36	6.02	6.63	5.8	5.39	6.8
4/12/2016		6.33	6.3	5.31	6.17	6.59		5.29	6.54
4/13/2016	6.28						5.85		
5/31/2016					6.15	6.57			
6/1/2016	6.36	6.4	6.24	5.35			5.92	5.39	6.49
8/15/2016	6.37	6.36	6.25				5.99		
8/16/2016					6.21			5.51	6.57
8/17/2016				5.38		6.72			
9/19/2016									
9/20/2016									
10/11/2016		6.38		5.31	6.14	6.69	6.02	5.44	6.54
10/12/2016	6.32		6.26						
10/31/2016									
11/1/2016					6.15				
11/2/2016	6.33		6.3	5.39				5.49	6.54
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	6.29	6.34	6.3	5.29	6.11	6.61	5.92	5.44	6.42
1/25/2017									
1/26/2017									
3/13/2017									
3/14/2017	6.27	6.42	6.31	5.19	6.09	6.55	5.96	5.48	6.59
3/15/2017									
5/9/2017		6.35		5.29		6.65	5.93		6.42
5/10/2017	6.3		6.34		6.11			5.43	
5/31/2017									
6/27/2017	6.28		6.32		6.09		5.86		6.44
6/28/2017		6.32		5.27		6.66		5.49	
8/29/2017				5.27				5.46	6.43
8/30/2017	6.34	6.32	6.38		6.1	6.66	5.88		
2/27/2018		6.39				6.73	5.92	5.48	6.49
2/28/2018	6.33		6.31	5.28	6.11				
6/4/2018		6.4					5.89		
6/5/2018	6.29		6.16		6.05	6.63		5.31	6.43
6/6/2018				5.21					
9/10/2018							5.89		
9/11/2018					6.18	6.65		5.36	6.35
9/12/2018	6.36	6.35	6.29	5.23					
11/5/2018									
11/6/2018	6.37	6.34	6.31	5.28	6.09	6.65	5.95		
11/7/2018								5.34	6.37
3/26/2019	6.34		6.3		6.1			5.32	6.46
3/27/2019		6.44		5.27		6.59	5.8		
9/9/2019		6.22	6.28						
9/10/2019	6.35			5.15	5.82		5.88	4.9	5.85
9/11/2019						6.36			

Prediction Limit

Constituent: pH (SU) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-3	GC-AP-MW-18	GC-AP-MW-25	GC-AP-MW-15	GC-AP-MW-5	GC-AP-MW-1	GC-AP-MW-24 (bg)	GC-AP-MW-23 (bg)
4/20/2020	6.43	6.4			6.16				
4/21/2020			6.31			6.5	5.72		6.26
4/22/2020				5.26				5.3	

Prediction Limit

Constituent: pH (SU) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-6	GC-AP-MW-11	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	6.45	6.46	6.04						
4/12/2016		6.45							
4/13/2016	6.49		6.07						
5/31/2016	6.43	6.51	6.03						
6/1/2016									
8/15/2016									
8/16/2016			6.09	5.39	7.13	6.34	6.21	6	
8/17/2016	6.43	6.54							6.15
9/19/2016					6.94	6.11		6	
9/20/2016				5.37			6.05		4.99
10/11/2016		6.53		5.39	6.82	5.99	6.2	6.02	
10/12/2016	6.46		6.06						4.88
10/31/2016				5.36			6.61		4.87
11/1/2016					6.71	5.84		5.97	
11/2/2016									
11/14/2016					6.57	5.83		5.98	
11/15/2016				5.33			6.64		4.81
11/28/2016					6.57	5.79		6	
11/29/2016				5.33			6.39		4.84
1/3/2017					6.56	5.39		6.03	
1/4/2017				5.49			6.06		4.88
1/23/2017				5.48					
1/24/2017		6.44			6.41			5.9	5.4
1/25/2017	6.43		5.94			5.09			
1/26/2017							6.02		
3/13/2017							5.68		
3/14/2017	6.41	6.4	6.08	5.17	6.37	4.99		6.07	5.13
3/15/2017									
5/9/2017			6.07	5.11			5.05		4.96
5/10/2017	6.41	6.4			6.41	4.63		6	
5/31/2017								6.02	
6/27/2017				5.29	6.14	4.76	4.9	6.05	5.34
6/28/2017	6.46	6.46	6.02						
8/29/2017	6.46	6.47	6.19						
8/30/2017				5.09	6.08	4.85	4.73	6.13	4.69
2/27/2018	6.45	6.53	6.21	5.25	5.99	4.69	4.87	6.1	4.91
2/28/2018									
6/4/2018									
6/5/2018	6.36	6.49	6.27	5.12	5.93	4.62	4.89	6.05	4.87
6/6/2018									
9/10/2018			6.33						
9/11/2018	6.38	6.48		5.19	5.86	4.79	4.88	6.07	4.65
9/12/2018									
11/5/2018			6.26					6.01	
11/6/2018				5.12	5.89	4.62	4.86		4.67
11/7/2018	6.37	6.48							
3/26/2019	6.39	6.54		5.16			4.97		4.92
3/27/2019			6.37		5.95	4.68		6.15	
9/9/2019									
9/10/2019	6.39	6.55	5.91						
9/11/2019				4.11	5.85	4.57	3.96	5.87	4.33

Prediction Limit

Constituent: pH (SU) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-6	GC-AP-MW-11	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-28 (bg)
4/20/2020									
4/21/2020	6.39	6.54		4.44			3.9		4.07
4/22/2020			6.26		5.75	4.71		5.92	

Prediction Limit

Constituent: pH (SU) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-26 (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	5.85	5.47
9/19/2016		
9/20/2016	5.82	5.22
10/11/2016		
10/12/2016	5.76	5.1
10/31/2016		
11/1/2016		
11/2/2016		
11/14/2016		
11/15/2016	5.79	5.07
11/28/2016		
11/29/2016	5.73	5.1
1/3/2017		
1/4/2017	5.69	5.3
1/23/2017	5.45	5.12
1/24/2017		
1/25/2017		
1/26/2017		
3/13/2017	4.8	
3/14/2017		4.74
3/15/2017		
5/9/2017	4.82	4.83
5/10/2017		
5/31/2017		
6/27/2017	5.27	4.87
6/28/2017		
8/29/2017	5.28	4.71
8/30/2017		
2/27/2018	5.11	4.96
2/28/2018		
6/4/2018		
6/5/2018	5.24	5
6/6/2018		
9/10/2018		
9/11/2018	5.28	4.94
9/12/2018		
11/5/2018		
11/6/2018	5.54	4.9
11/7/2018		
3/26/2019	5.4	4.96
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	5.53	4.85

Prediction Limit

Constituent: pH (SU) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)
4/20/2020		
4/21/2020	5.3	4.29
4/22/2020		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-18	GC-AP-MW-17
2/16/2016	45.2	49.4	9.03	119	113	125	108		
2/17/2016								60.2	72.3
4/12/2016					86.7		114	68.2	
4/13/2016	43.9	51.7	10.7	122		119			123
5/31/2016			10.2	94.3	83.1		114		
6/1/2016	32	51.2				99.2		61.4	144
8/15/2016								56	50.1
8/16/2016			9.1	67.1	59.3	71.9			
8/17/2016	31.9	42.9					85.4		
9/19/2016									
9/20/2016									
10/11/2016									
10/12/2016	39.6	39.5	7.24	94.1	99.3	93.9	53.5	36.6	72.6
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								12.3	63.4
1/25/2017	44	31.3	9.71	101	113	103	75.4		
1/26/2017									
5/9/2017				91	74	100	84		
5/10/2017	32	30	11					10	82
6/27/2017								9.7	44
6/28/2017	34	35	10	71	71	69	120		
8/29/2017	34	40	14	80	72	77	180		
8/30/2017								7.8	230
6/4/2018									
6/5/2018	22	25	39					13	230
6/6/2018				62	48	81	450		
9/10/2018						64			
9/11/2018	33	23	29	63	62				
9/12/2018							200	28	33
11/5/2018				74	81	68			
11/6/2018								11	220
11/7/2018	76	30	45				180		
3/26/2019	138	21.6		92.3	92.4	92		21.3	161
3/27/2019			66.2				335		
9/9/2019								17.8	57.3
9/10/2019	115	37.4	50.5	89.3		63.1	193		
9/11/2019					128				
4/20/2020					76.5				
4/21/2020	133	43.3		121		99	168	19.2	78
4/22/2020			63.2						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-11	GC-AP-MW-7	GC-AP-MW-2
2/16/2016									
2/17/2016	87.4	785	187	<1	<1	132	40.2	311	304
4/12/2016			188	0.49 (J)	0.483 (J)	130			
4/13/2016	92.7	715					33.1	330	307
5/31/2016			183		0.518 (J)	111	28.1	324	
6/1/2016	111	832		0.544 (J)					273
8/15/2016	98.3	862		0.332 (J)					275
8/16/2016			196				38.5		
8/17/2016					3.63	95.8		306	
9/19/2016									
9/20/2016									
10/11/2016		888	216	<1	15.6	101			284
10/12/2016	99.3						38.3	296	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	85.4	906	183	<1	28.9	129			302
1/25/2017							32	243	
1/26/2017									
5/9/2017		810		2.1 (J)	25		44		250
5/10/2017	74		160			120		210	
6/27/2017	75	830	150						
6/28/2017				<1	45	100	88	210	230
8/29/2017						95	110	220	
8/30/2017	87	910	160	<1	96				250
6/4/2018		850		1.4 (J)					260
6/5/2018	87		160		36	98	79	390	
6/6/2018									
9/10/2018		920					80		280
9/11/2018			140		48	100		360	
9/12/2018	63			<1					
11/5/2018							81		
11/6/2018	97	880	160	<1	93				280
11/7/2018						97		390	
3/26/2019	123		157			120		430	
3/27/2019		1090		6.64	33.4		83.2		375
9/9/2019				6.56					385
9/10/2019	68	992	150			140	87.2	409	
9/11/2019					149				
4/20/2020	49.6		142	10.5					
4/21/2020		874			163	153		318	522
4/22/2020							58.7		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:29 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	28.7	14.7	10.4						
4/12/2016	32.5	20	11.3						
4/13/2016									
5/31/2016									
6/1/2016	31.9	20.1	10.4						
8/15/2016									
8/16/2016		19.1	12.2	1.78	0.894 (J)	0.702 (J)	9.33	2.06	
8/17/2016	30.5								0.928 (J)
9/19/2016				2.06			11.2	1.44	
9/20/2016					<1	<1			0.478 (J)
10/11/2016	32.3	18.4	19.8	2.33	<1	<1	12.6	1.38	
10/12/2016									0.727 (J)
11/14/2016				2.31			12.4	1.15	
11/15/2016					1.19	<1			0.448 (J)
1/3/2017				2.81			14.3	1.57	
1/4/2017					<1	<1			0.627 (J)
1/23/2017						0.493 (J)			1.34
1/24/2017	33.5	15	30.7	3.34				2.06	
1/25/2017							15.2		
1/26/2017					0.6 (J)				
5/9/2017	33	14			<1	<1			<1
5/10/2017			33	2.9 (J)			12	2.1 (J)	
6/27/2017		14		3.4 (J)	<1	<1	13	2.7 (J)	<1
6/28/2017	35		56						
8/29/2017	37	16	61						<1
8/30/2017				3.7 (J)	<1	<1	15	2.6 (J)	
6/4/2018									
6/5/2018		14	97	3.7 (J)	1.4 (J)	<1	17	3.1 (J)	2.1 (J)
6/6/2018	47								
9/10/2018									
9/11/2018		13	83	2.2 (J)	<1	<1	16	1.6 (J)	<1
9/12/2018	41								
11/5/2018								2.4 (J)	
11/6/2018	48			3.1 (J)	<1	<1	15		<1
11/7/2018		14	91						
3/26/2019		12.3	103		0.594 (J)	<1			1.66
3/27/2019	62.4			3.55			15.1	3.24	
9/9/2019									
9/10/2019	66	12.4	83.4						
9/11/2019				3.83	<1	<1	14.5	2.66	1.29
4/20/2020									
4/21/2020		10.2			0.694 (J)	<1			2.21
4/22/2020	76.1		84.7	3.78			9.64	2.51	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:30 PM View: Interwell PL

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	16.2	6.46
9/19/2016		
9/20/2016	14.9	8.3
10/11/2016		
10/12/2016	12.4	8.36
11/14/2016		
11/15/2016	8.6	8.75
1/3/2017		
1/4/2017	12.2	7.85
1/23/2017	16	
1/24/2017		6.62
1/25/2017		
1/26/2017		
5/9/2017	55	5.6
5/10/2017		
6/27/2017	45	5.3
6/28/2017		
8/29/2017	37	
8/30/2017		8.2
6/4/2018		
6/5/2018	9.3	8.3
6/6/2018		
9/10/2018		
9/11/2018	7.8	8.9
9/12/2018		
11/5/2018		
11/6/2018	6	8.6
11/7/2018		
3/26/2019	6.86	10.1
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	5.29	10.6
4/20/2020		
4/21/2020	6.28	9.4
4/22/2020		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-18	GC-AP-MW-17
2/16/2016	226	656	312	264	242	264	340		
2/17/2016								464	328
4/12/2016					176		298	491	
4/13/2016	202	634	324	238		226			373
5/31/2016			333	206	189		309		
6/1/2016	224	672				231		468	442
8/15/2016								454	392
8/16/2016			327	180	192	181			
8/17/2016	290	624					269		
9/19/2016									
9/20/2016									
10/11/2016									
10/12/2016	315	586	312	223		225			
10/31/2016									
11/1/2016					244		252		
11/2/2016								422	469
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								408	464
1/25/2017	332	596	286	271	274	277	259		
1/26/2017									
5/9/2017				236	191	255	285		
5/10/2017	361	576	326					358	492
6/27/2017								382	516
6/28/2017	396	612	304	198	176	175	348		
8/29/2017	402	640	348	187	163	218	528		
8/30/2017								392	646
6/4/2018									
6/5/2018	448	474	346					352	644
6/6/2018				199	138	207	932		
9/10/2018						197			
9/11/2018	462	496	335	184	185				
9/12/2018							180	339	476
11/5/2018				210	208	200			
11/6/2018								368	634
11/7/2018	506	514	342				528		
3/26/2019	586	546		230	198	218		406	516
3/27/2019			347				834		
9/9/2019								409 (D)	500
9/10/2019	586	601 (D)	351	218 (D)		198	658		
9/11/2019					316				
4/20/2020					201				
4/21/2020	578	638		291		265	628	429	490
4/22/2020			338						

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-1	GC-AP-MW-15	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-11	GC-AP-MW-7	GC-AP-MW-2
2/16/2016									
2/17/2016	310	1540	408	358	238	640	158	892	516
4/12/2016			334	393	316	610			
4/13/2016	372	1200					161	1010	508
5/31/2016			351		320	626	173	1100	
6/1/2016	360	1440		381					494
8/15/2016	366	1420		348					476
8/16/2016			367				173		
8/17/2016					325	628		1070	
9/19/2016									
9/20/2016									
10/11/2016		1420		379	333	636			508
10/12/2016							173	1040	
10/31/2016									
11/1/2016			372						
11/2/2016	374								
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	380	1350	354	354	336	696			510
1/25/2017							161	972	
1/26/2017									
5/9/2017		1540		368	317		195		510
5/10/2017	381		332			687		740	
6/27/2017	404	1470	331						
6/28/2017				368	373	622	227	914	480
8/29/2017						616	229	924	
8/30/2017	420	1530	317	370	432				478
6/4/2018		1370		369					528
6/5/2018	408		318		347	582	200	1060	
6/6/2018									
9/10/2018		1380					183		472
9/11/2018			321		370	616		1020	
9/12/2018	415			354					
11/5/2018							193		
11/6/2018	447	1450	331	354	409				522
11/7/2018						576		1050	
3/26/2019	481		338 (D)			682		1100	
3/27/2019		1910		362	328		211		562
9/9/2019				371					666
9/10/2019	453	1740	358			744	201	1100	
9/11/2019					455				
4/20/2020	461		369	371					
4/21/2020		1530			494	742		1010	878
4/22/2020							249		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:30 PM View: Interwell PL

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	144	142	53						
4/12/2016	140	155	38.7						
4/13/2016									
5/31/2016									
6/1/2016	139	148	46						
8/15/2016									
8/16/2016		132	48	142	41.3	<25	101	49.3	
8/17/2016	142								36.7
9/19/2016				121			80	44.7	
9/20/2016					42.7	26.7			25.3
10/11/2016									
10/12/2016									<25
10/31/2016					140	25.3			
11/1/2016				103			78	48	
11/2/2016	128	115	66.7						
11/28/2016				84			68.7	40.7	
11/29/2016					78	<25			<25
1/3/2017				89.3			60.7	49.3	
1/4/2017					34	34.7			27.3
1/23/2017						33.3			<25
1/24/2017	124	107	78.7	83.3				48.7	
1/25/2017							54.7		
1/26/2017					32.7				
5/9/2017	136	80.7			<25	<25			28.7
5/10/2017			92.7	31.3			60.7	46.7	
6/27/2017		96.7		67.3	30.7	<25	58	55.3	27.3
6/28/2017	145		118						
8/29/2017	139	120	128						30.7
8/30/2017				64	25.3	28	66.7	57.3	
6/4/2018									
6/5/2018		113	171	50	<25	28.7	71.3	52.7	26
6/6/2018	153								
9/10/2018									
9/11/2018		108	170	53.3	<25	29.3	66.7	60	<25
9/12/2018	156								
11/5/2018								53.3	
11/6/2018	153			66	<25	<25	61.3		26
11/7/2018		96.7	163						
3/26/2019		103	174		<25	19.9 (D)			<25
3/27/2019	178			48.7			65.3	51.35 (D)	
9/9/2019									
9/10/2019	182	107	167						
9/11/2019				52.7	<25	34	68.3 (D)	55.3	27.3
4/20/2020									
4/21/2020		107			<25	26.7			30.7
4/22/2020	195		162	49.3			62.7	52.7	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:30 PM View: Interwell PL

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	64	65.3
9/19/2016		
9/20/2016	60	44
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	42	34
1/3/2017		
1/4/2017	56	42
1/23/2017	50.7	
1/24/2017		45.3
1/25/2017		
1/26/2017		
5/9/2017	126	49.3
5/10/2017		
6/27/2017	93.3	46
6/28/2017		
8/29/2017	84	
8/30/2017		38.7
6/4/2018		
6/5/2018	38.7	34.7
6/6/2018		
9/10/2018		
9/11/2018	35.3	34.7
9/12/2018		
11/5/2018		
11/6/2018	40.7	36
11/7/2018		
3/26/2019	36.7	30
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	40.7	40
4/20/2020		
4/21/2020	39.3	36
4/22/2020		

Trend Tests - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/4/2020, 3:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-23 (bg)	0	22	48	No	14	78.57	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.004146	43	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	3	48	No	14	92.86	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	13	48	No	14	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	3	48	No	14	92.86	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	7	48	No	14	92.86	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	48	No	14	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-1	0.0224	44	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.003662	21	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.01608	44	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.1141	-42	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-7**	**0.07995**	**69**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-8**	**0.08372**	**56**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-9**	**0.2561**	**84**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-10	-0.03117	-18	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-11**	**-0.1174**	**-61**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-12	-0.03541	-31	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	-0.00...	-7	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-14**	**0.2078**	**55**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-15**	**0.07801**	**62**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-16	0.06157	28	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.05069	31	48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.09577	-44	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	-0.02603	-27	-48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.77	-43	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-24 (bg)**	**8.483**	**91**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.7273	-41	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	-0.05945	-21	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.2224	-43	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-29 (bg)**	**-0.4706**	**-77**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.06657	-15	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-14.41	-39	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	5.816	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-3	2.589	23	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-5**	**6.871**	**85**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-6	6.443	32	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	6.972	18	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	0	1	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-9**	**25.93**	**90**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-10	1.037	15	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	0.5184	11	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-14**	**25**	**61**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-15	2.228	39	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-16**	**9.397**	**88**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GC-AP-MW-17**	**10.46**	**69**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-18	-5.253	-35	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-21	-0.3032	-5	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.06922	-36	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (bg)	0.7857	39	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-25**	**-1.265**	**-76**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.1689	-28	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.08632	27	53	No	15	6.667	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.1433	-43	-53	No	15	13.33	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.3771	-46	-53	No	15	13.33	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.03259	4	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-1	-1.549	-30	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	0.226	22	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	0	4	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-0.9813	-47	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	0.4971	8	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	1.206	11	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	-7.29	-44	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-9**	**3.679**	**73**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-10	-0.3085	-21	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-1.364	-31	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	0.0868	4	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.3383	-16	-53	No	15	0	n/a	n/a	0.01	NP

Trend Tests - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/4/2020, 3:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-15	0.1862	23	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	0	3	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-0.9442	-14	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-18**	**1.026**	**66**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-21	0.7341	17	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.00435	31	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0.006518	32	53	No	15	53.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	-0.01058	-16	-34	No	11	27.27	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	13	48	No	14	92.86	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	3	48	No	14	85.71	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	25	53	No	15	86.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	14	53	No	15	93.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	-0.00...	-7	-53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.01349	52	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-9	0.01172	45	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	-0.00...	-3	-53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-11	0.01472	43	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.01336	47	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02259	53	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01646	53	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.03042	37	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.001858	29	53	No	15	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-21	0.003925	14	53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	**GC-AP-MW-23 (bg)**	**-0.07935**	**-89**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	GC-AP-MW-24 (bg)	-0.03964	-47	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (bg)	-0.1495	-56	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	**GC-AP-MW-27 (bg)**	**-0.146**	**-77**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	GC-AP-MW-28 (bg)	-0.1998	-71	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	**GC-AP-MW-29 (bg)**	**-0.7024**	**-123**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	**GC-AP-MW-30 (bg)**	**-0.1728**	**-106**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	GC-AP-MW-12	0.007738	10	63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-21	-0.08033	-61	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-23 (bg)**	**-2.183**	**-75**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GC-AP-MW-24 (bg)**	**28.28**	**86**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-2.996	-51	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0	9	53	No	15	33.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.6777	46	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	-1	-53	No	15	60	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	17	53	No	15	86.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-1**	**42.33**	**55**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-2	21.99	21	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-5**	**35.94**	**85**	**53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-6	-0.5214	-3	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	23.35	23	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	14.9	27	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-12	-5.058	-25	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	33.14	47	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-15**	**-11.85**	**-65**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-23 (bg)	-11.12	-51	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-24 (bg)**	**45.45**	**77**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-25**	**12.3**	**59**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-26 (bg)	-7.341	-44	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0	6	53	No	15	33.33	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-3.625	-36	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-29 (bg)**	**-5.341**	**-70**	**-53**	**Yes**	**15**	**46.67**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-30 (bg)	0.9158	16	53	No	15	33.33	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	55.54	28	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	16.8	37	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	0	-4	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-5**	**40.93**	**73**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-6	9.91	8	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	20.6	21	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	-25.73	-33	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-9**	**100.9**	**96**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-10	7.821	48	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-11**	**15.24**	**65**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-12	-1.867	-3	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	2.801	8	53	No	15	0	n/a	n/a	0.01	NP

Trend Tests - All Results

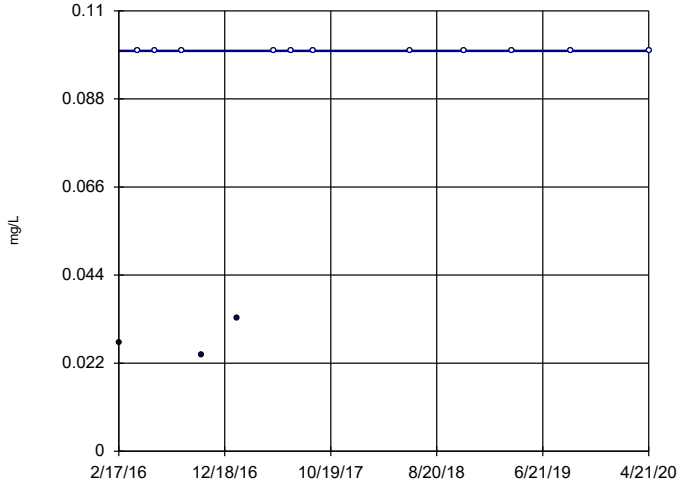
Greene County Client: Southern Company Data: Greene County AP Printed 6/4/2020, 3:46 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	GC-AP-MW-14	91.54	38	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	-5.38	-18	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-16**	**29.22**	**93**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-17**	**48.46**	**56**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-18	-26.79	-41	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-7.96	-22	-53	No	15	0	n/a	n/a	0.01	NP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 22 critical = 48

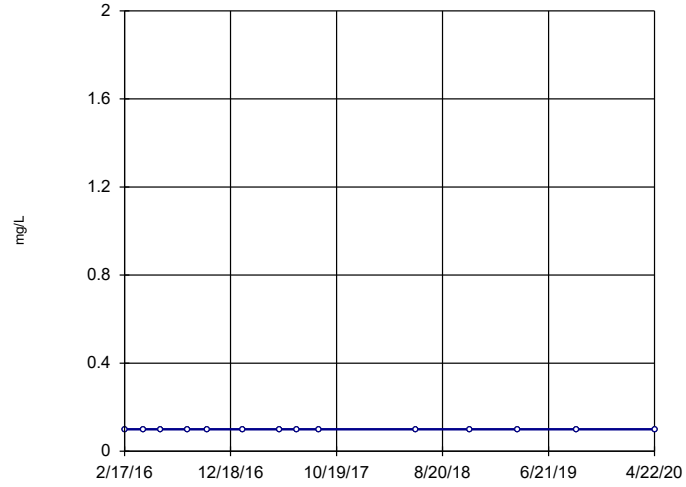
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 48

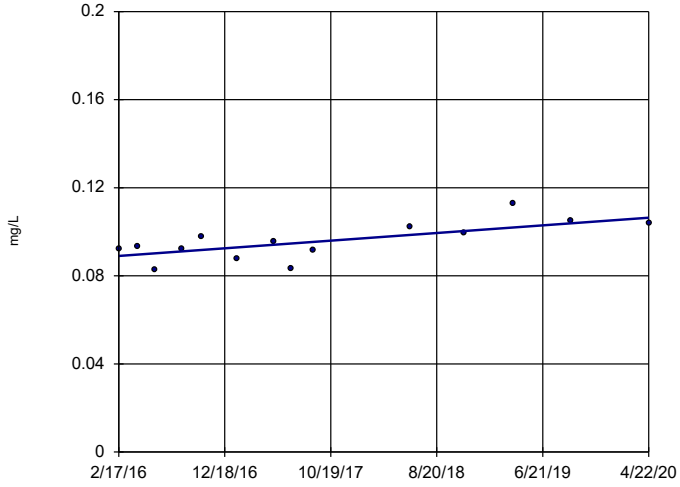
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-25



n = 14

Slope = 0.004146 units per year.

Mann-Kendall statistic = 43 critical = 48

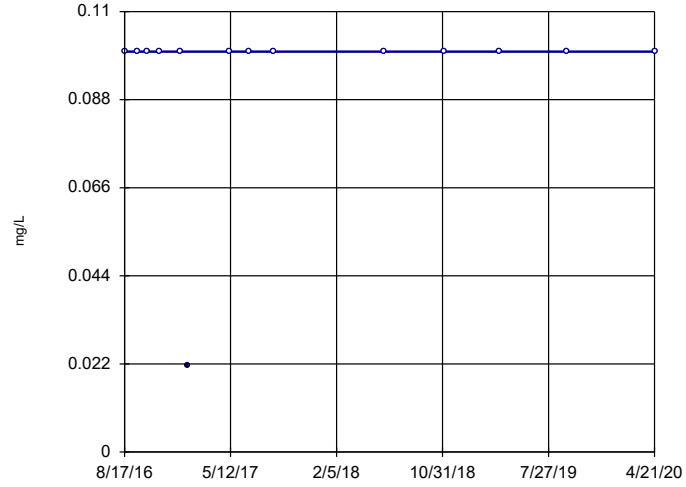
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 48

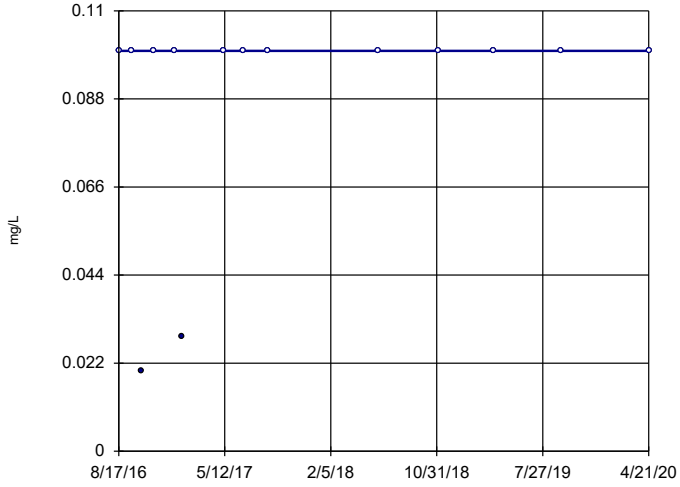
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 14

Slope = 0
units per year.

Mann-Kendall
statistic = 13
critical = 48

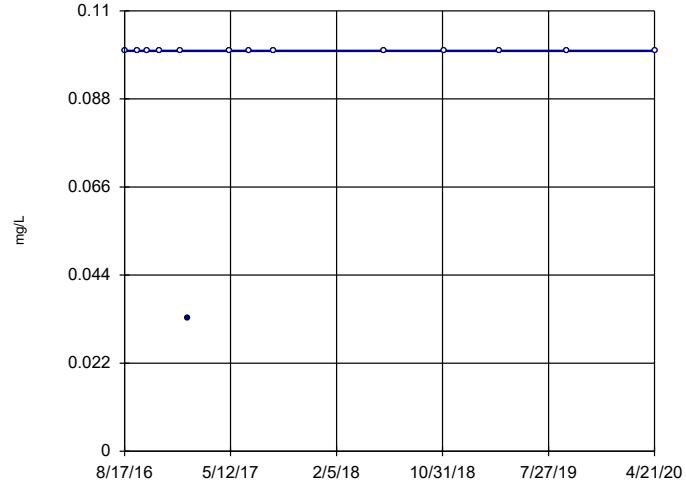
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 14

Slope = 0
units per year.

Mann-Kendall
statistic = 3
critical = 48

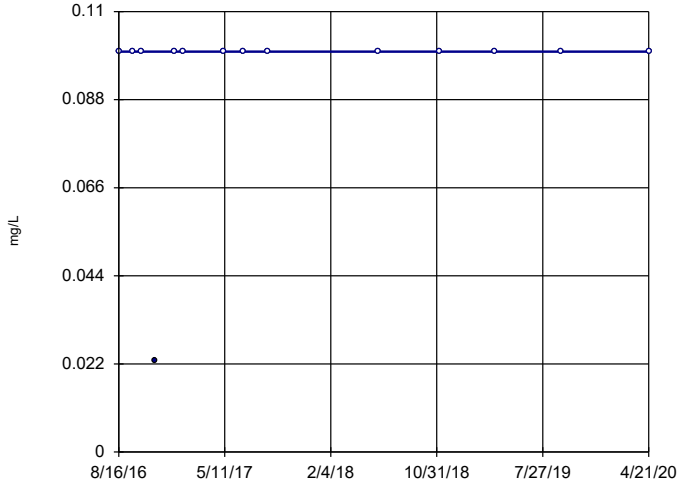
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 14

Slope = 0
units per year.

Mann-Kendall
statistic = 7
critical = 48

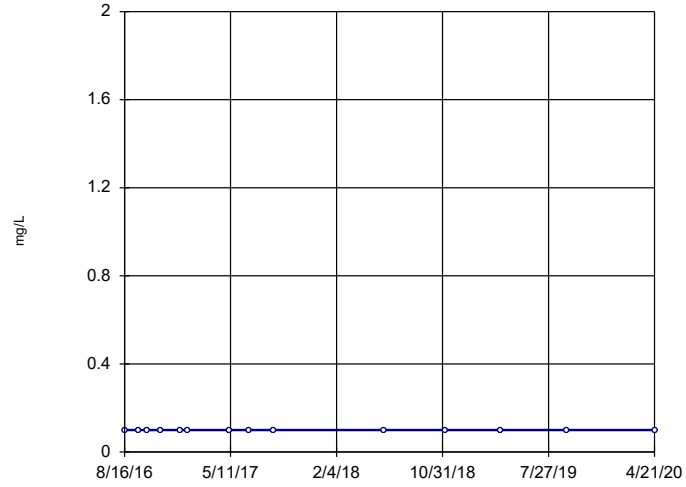
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 14

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 48

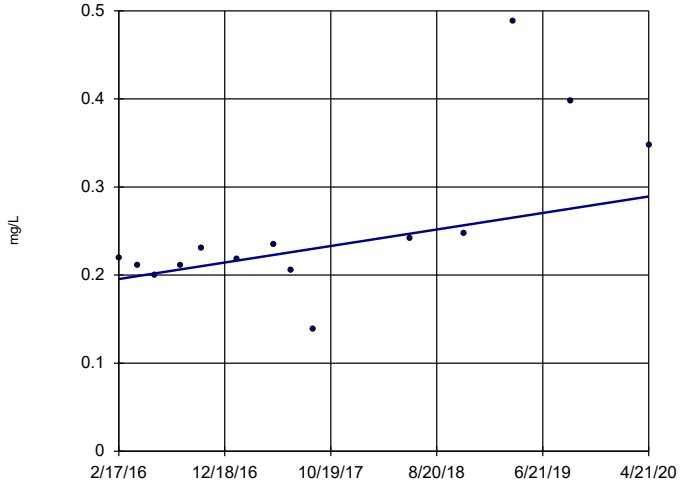
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 14

Slope = 0.0224 units per year.

Mann-Kendall statistic = 44 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

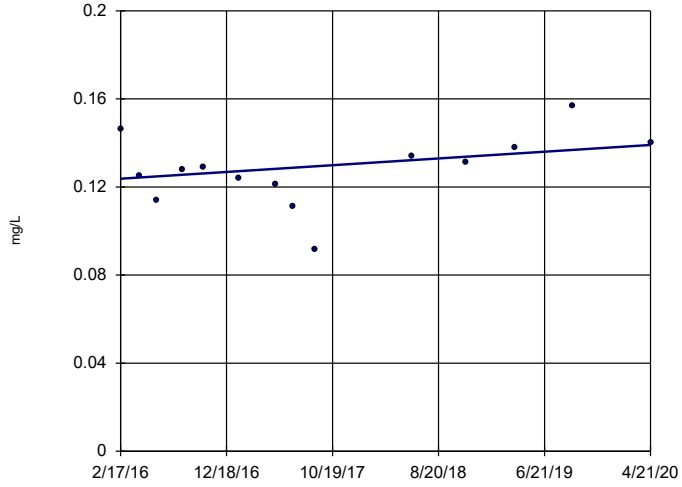
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 14

Slope = 0.003662 units per year.

Mann-Kendall statistic = 21 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

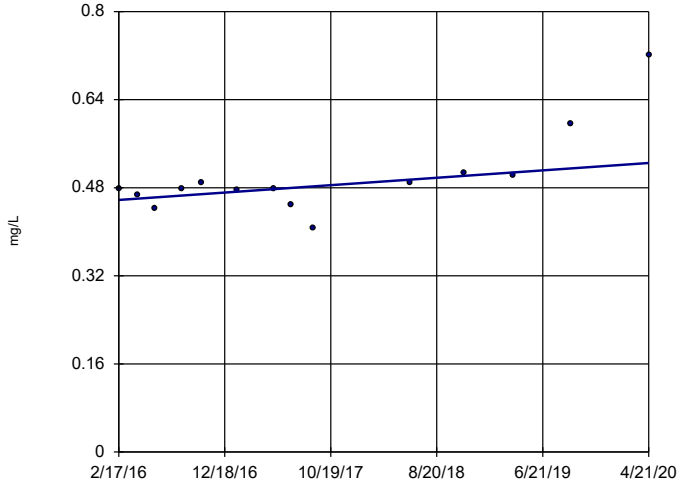
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 14

Slope = 0.01608 units per year.

Mann-Kendall statistic = 44 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

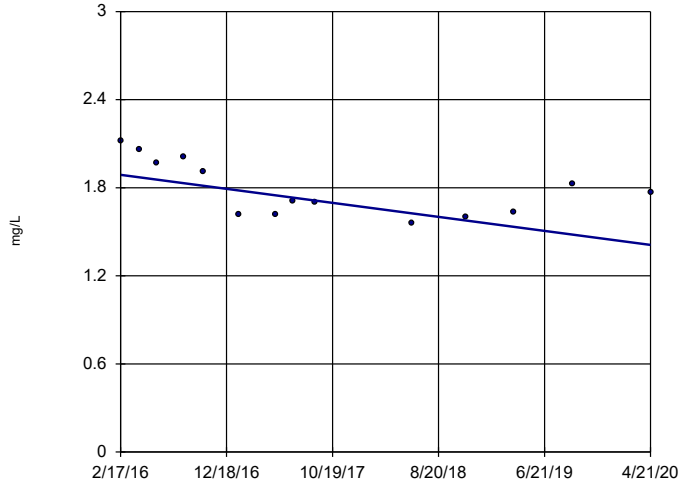
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 14

Slope = -0.1141 units per year.

Mann-Kendall statistic = -42 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

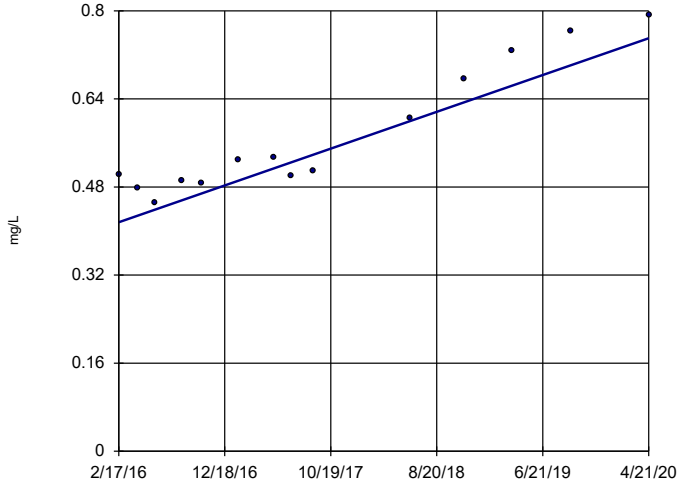
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 14

Slope = 0.07995 units per year.

Mann-Kendall statistic = 69 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

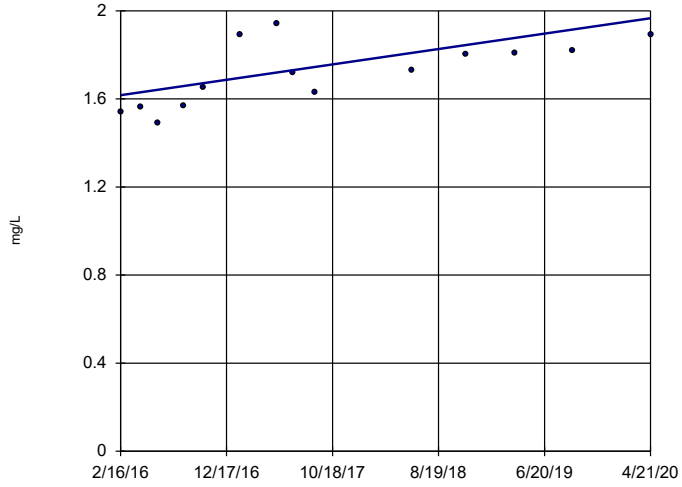
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 14

Slope = 0.08372 units per year.

Mann-Kendall statistic = 56 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

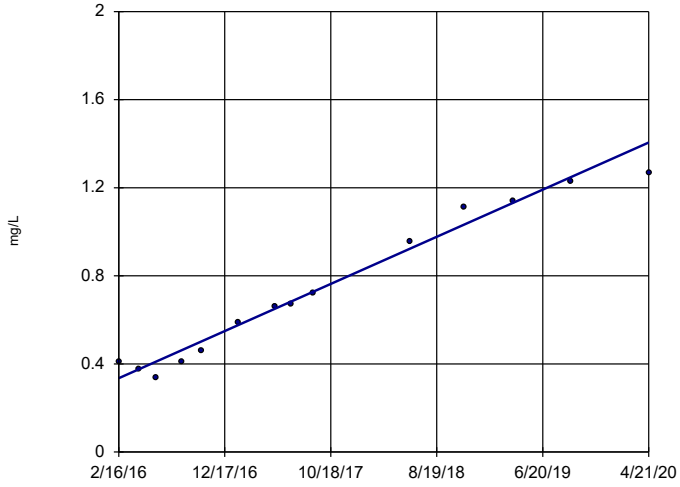
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 14

Slope = 0.2561 units per year.

Mann-Kendall statistic = 84 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

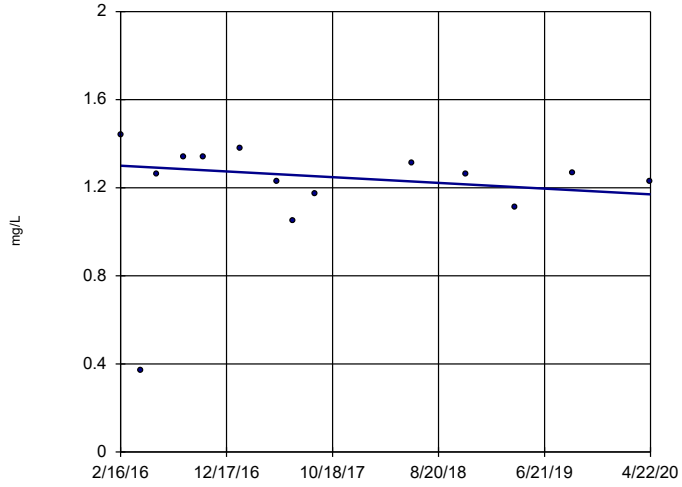
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 14

Slope = -0.03117 units per year.

Mann-Kendall statistic = -18 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

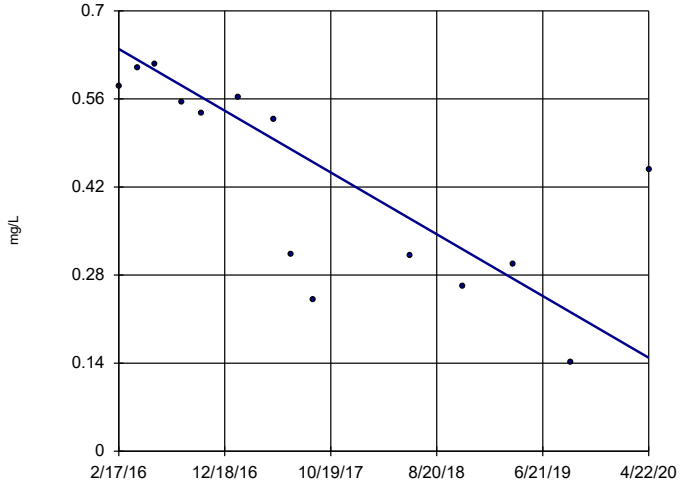
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-11



n = 14

Slope = -0.1174 units per year.

Mann-Kendall statistic = -61 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

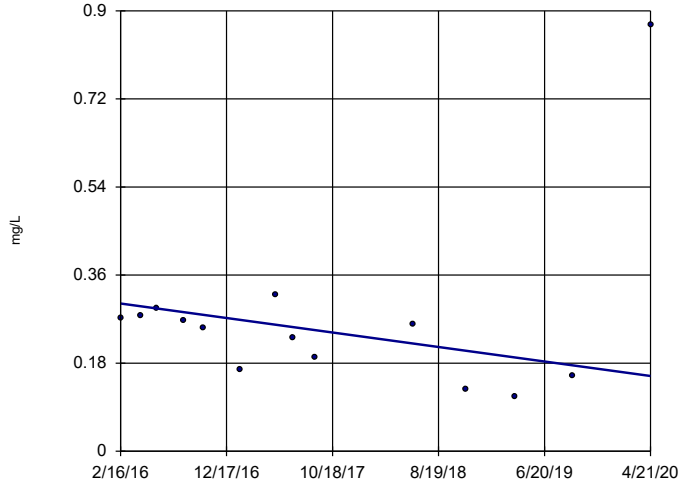
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 14

Slope = -0.03541 units per year.

Mann-Kendall statistic = -31 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

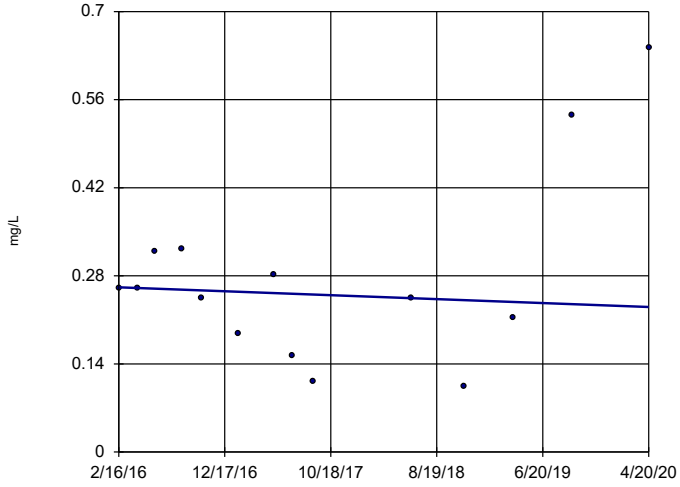
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 14

Slope = -0.007439 units per year.

Mann-Kendall statistic = -7 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

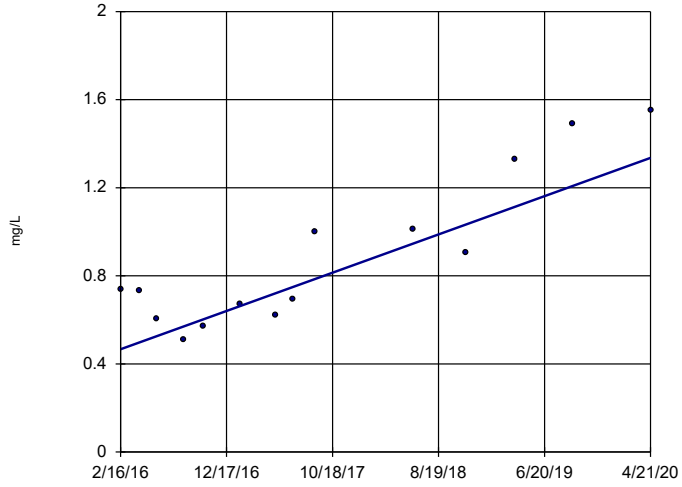
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 14

Slope = 0.2078 units per year.

Mann-Kendall statistic = 55 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

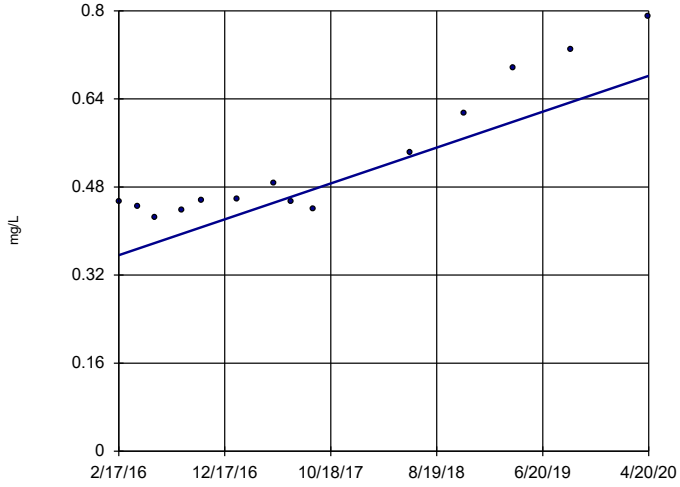
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 14

Slope = 0.07801 units per year.

Mann-Kendall statistic = 62 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

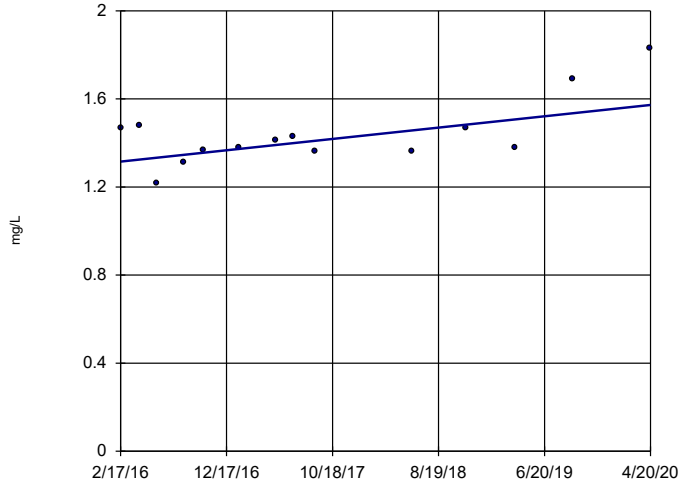
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 14

Slope = 0.06157 units per year.

Mann-Kendall statistic = 28 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

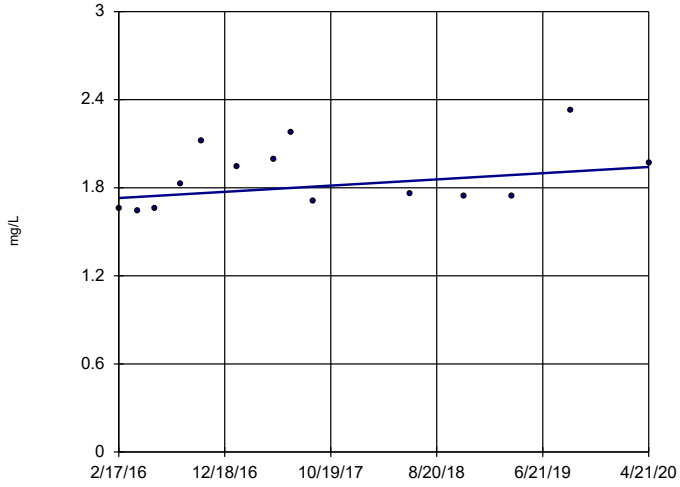
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 14

Slope = 0.05069 units per year.

Mann-Kendall statistic = 31 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

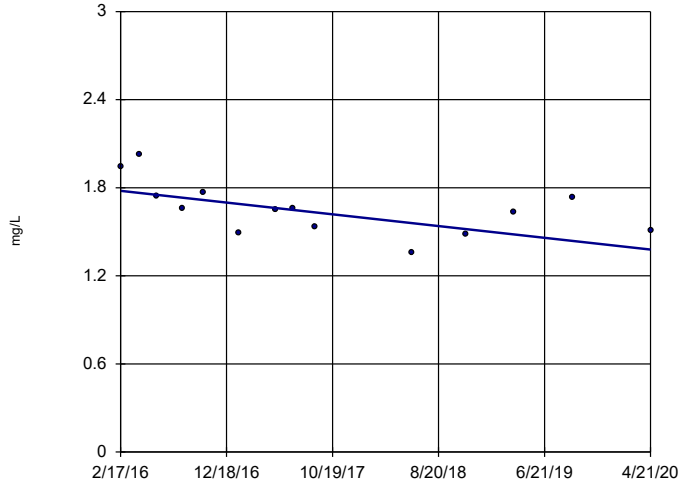
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 14

Slope = -0.09577 units per year.

Mann-Kendall statistic = -44 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

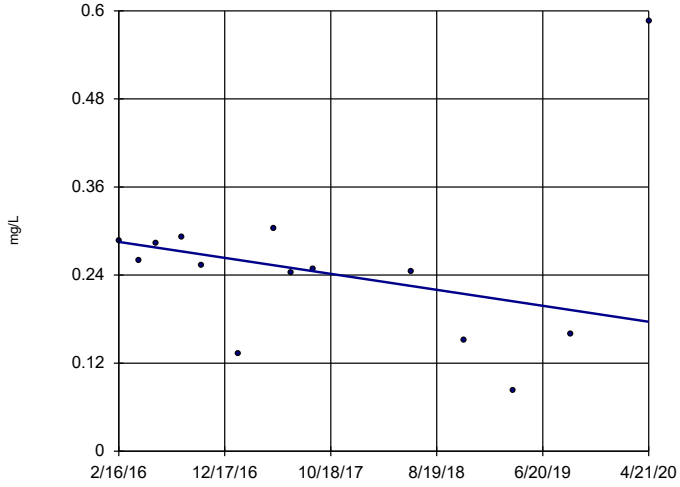
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 14

Slope = -0.02603 units per year.

Mann-Kendall statistic = -27 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

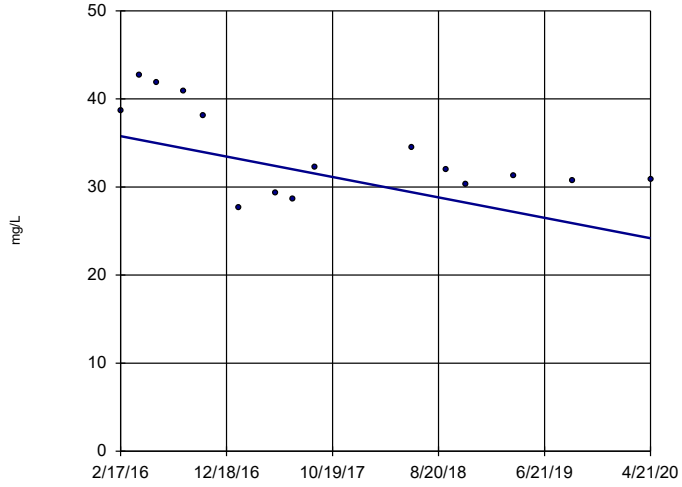
Constituent: Boron Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 15

Slope = -2.77 units per year.

Mann-Kendall statistic = -43 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

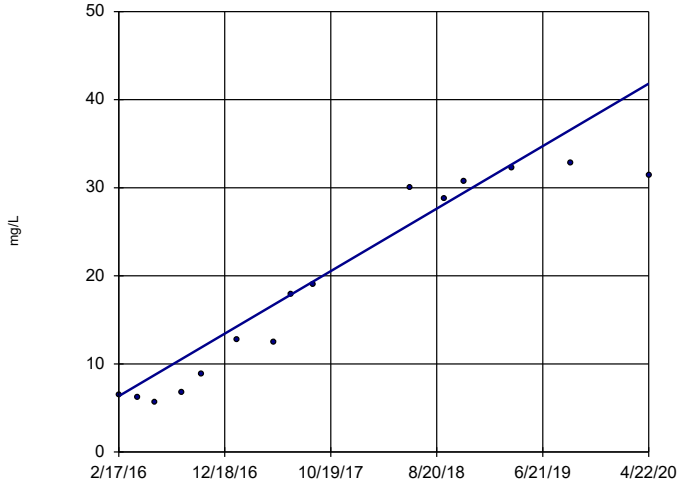
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 15

Slope = 8.483 units per year.

Mann-Kendall statistic = 91 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

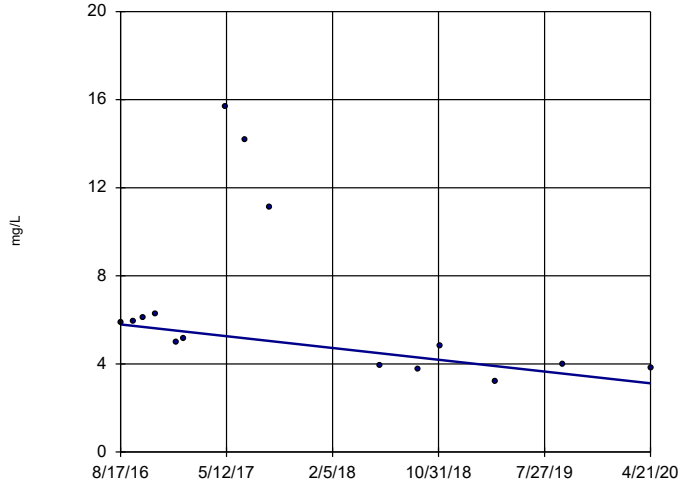
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 15

Slope = -0.7273 units per year.

Mann-Kendall statistic = -41 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

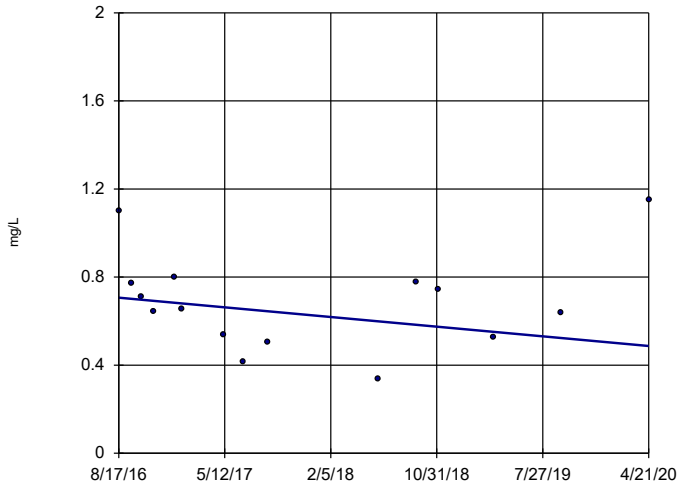
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 15

Slope = -0.05945 units per year.

Mann-Kendall statistic = -21 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

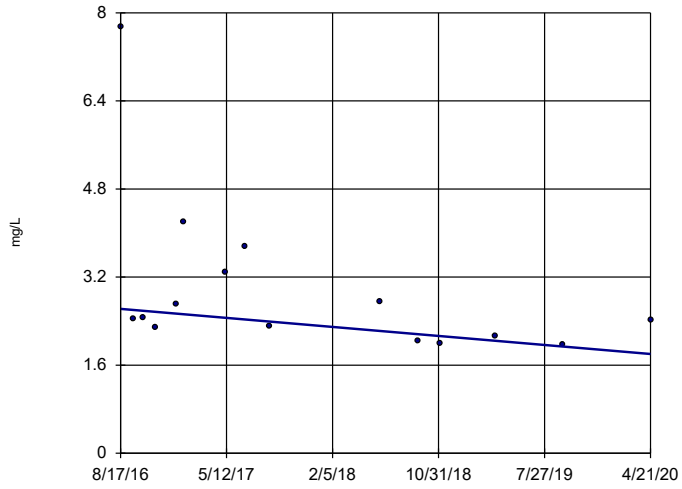
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 15

Slope = -0.2224 units per year.

Mann-Kendall statistic = -43 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

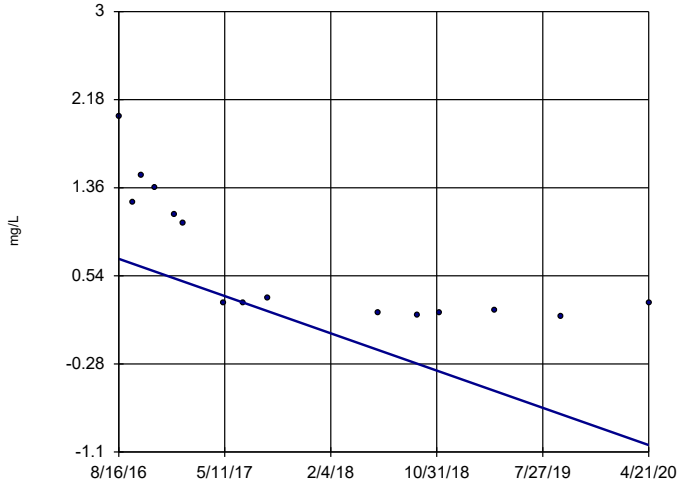
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 15

Slope = -0.4706 units per year.

Mann-Kendall statistic = -77 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

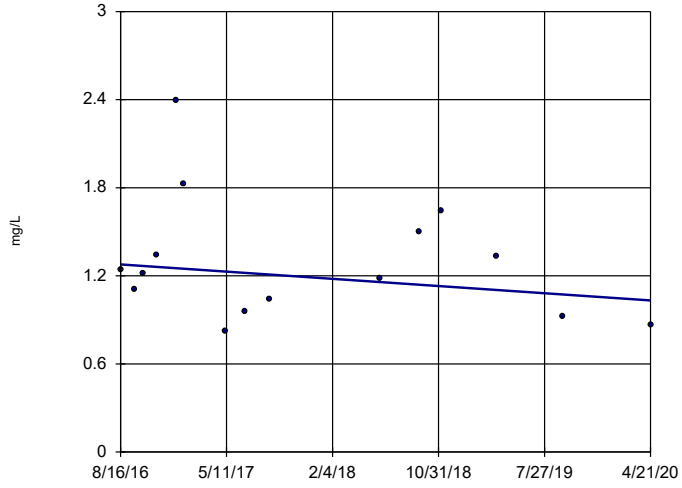
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 15

Slope = -0.06657 units per year.

Mann-Kendall statistic = -15 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

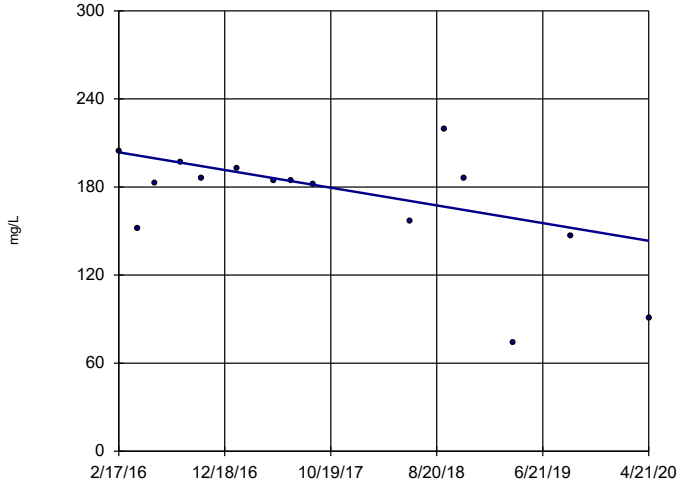
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 15

Slope = -14.41 units per year.

Mann-Kendall statistic = -39 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

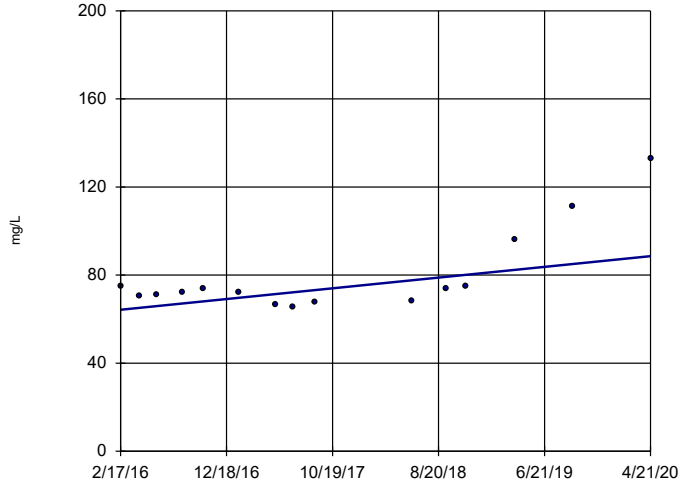
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 15

Slope = 5.816 units per year.

Mann-Kendall statistic = 40 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

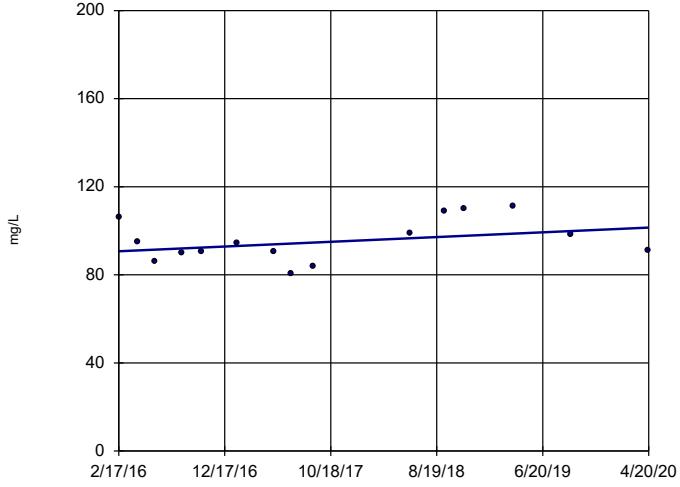
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-3



n = 15

Slope = 2.589 units per year.

Mann-Kendall statistic = 23 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

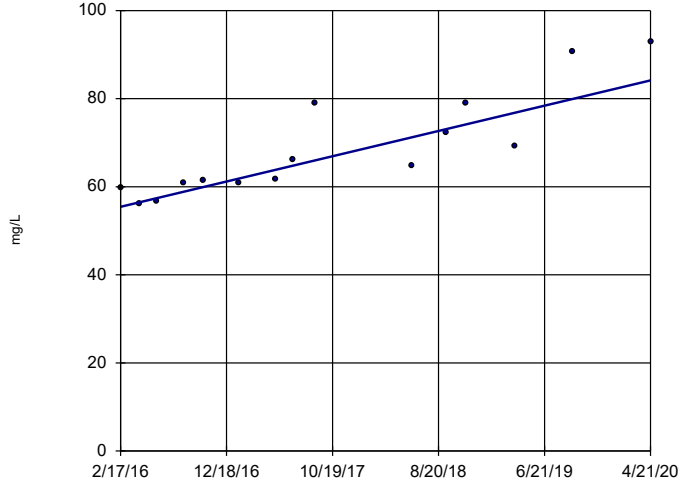
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 15

Slope = 6.871 units per year.

Mann-Kendall statistic = 85 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

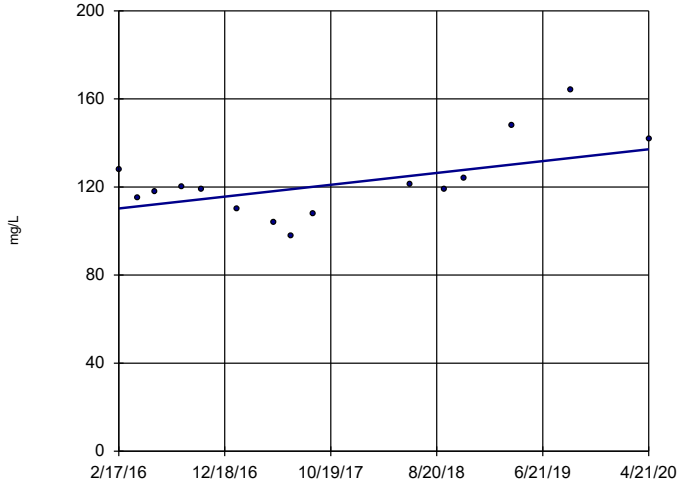
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 15

Slope = 6.443 units per year.

Mann-Kendall statistic = 32 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

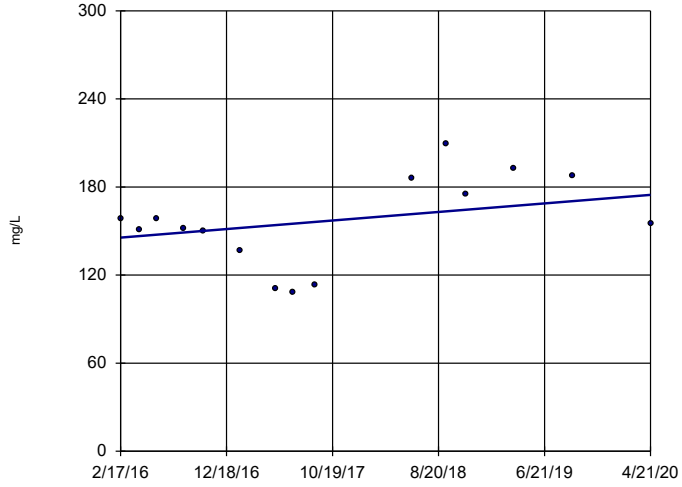
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 15

Slope = 6.972 units per year.

Mann-Kendall statistic = 18 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

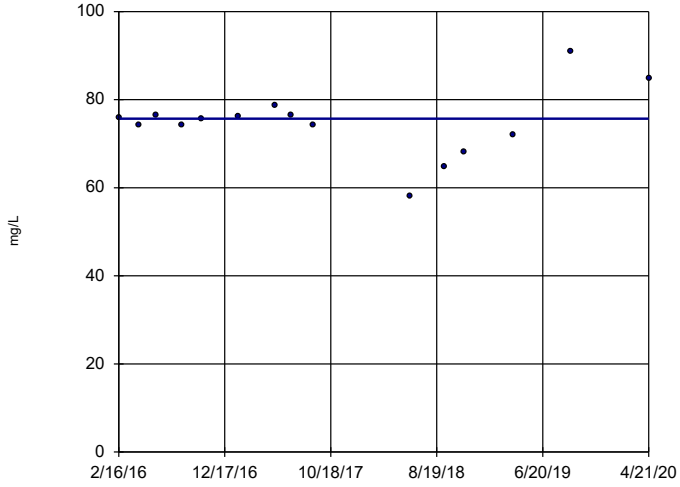
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

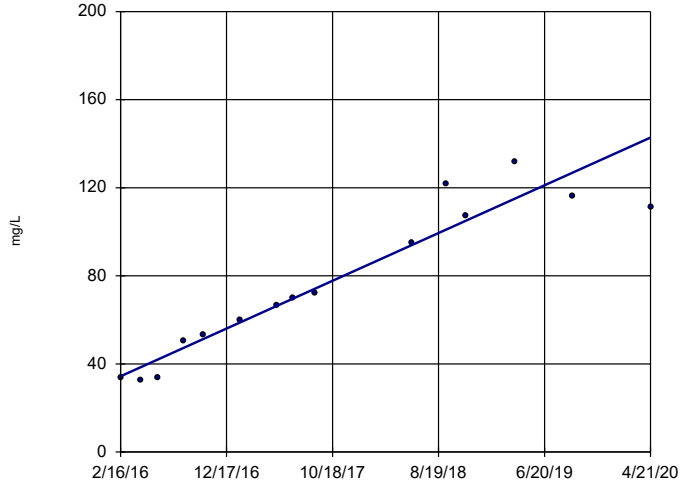
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 15

Slope = 25.93 units per year.

Mann-Kendall statistic = 90 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

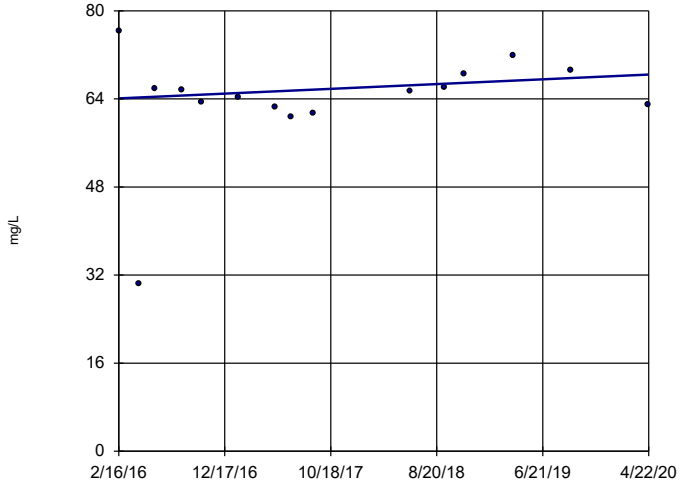
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 15

Slope = 1.037 units per year.

Mann-Kendall statistic = 15 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

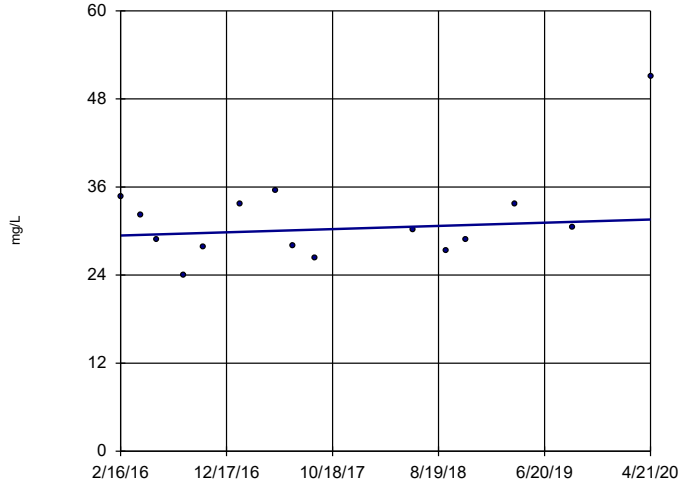
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 15

Slope = 0.5184 units per year.

Mann-Kendall statistic = 11 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

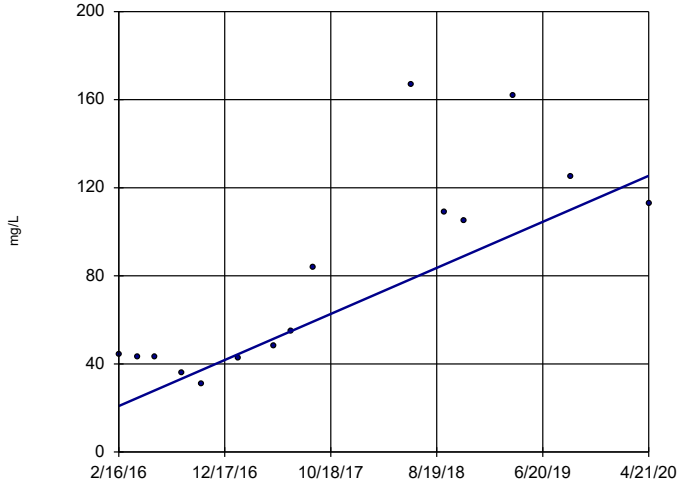
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 15

Slope = 25 units per year.

Mann-Kendall statistic = 61 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

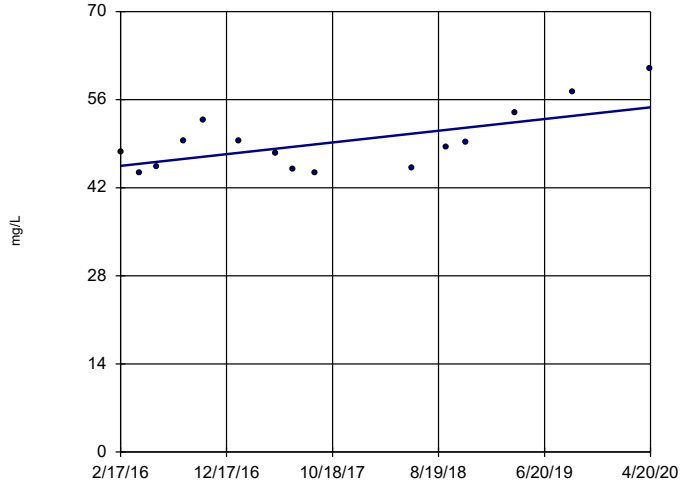
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 15

Slope = 2.228 units per year.

Mann-Kendall statistic = 39 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

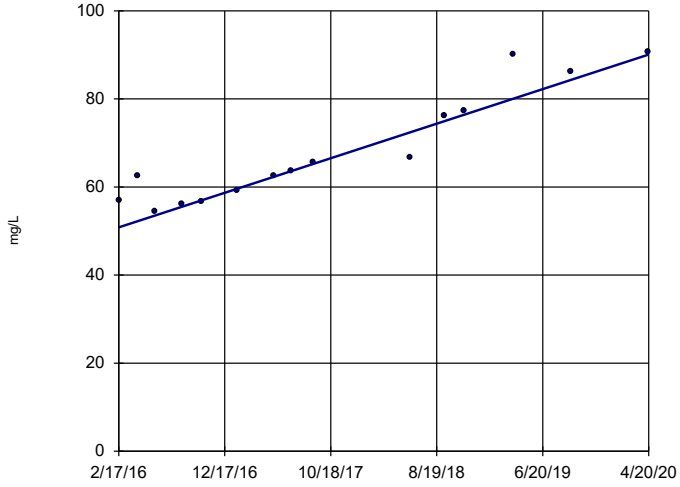
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 15

Slope = 9.397 units per year.

Mann-Kendall statistic = 88 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

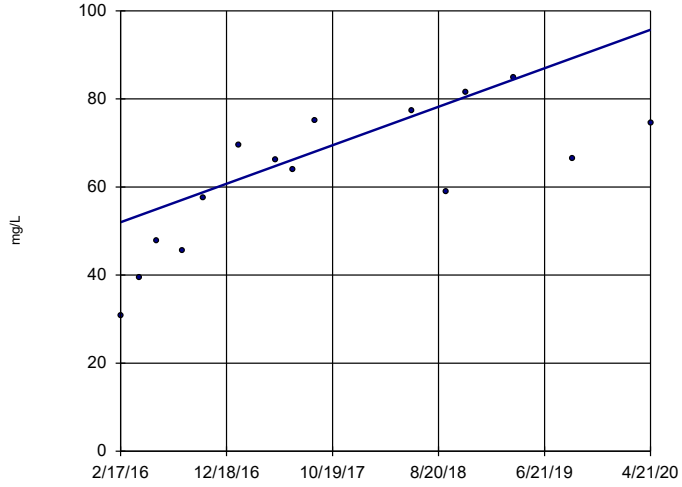
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 15

Slope = 10.46 units per year.

Mann-Kendall statistic = 69 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

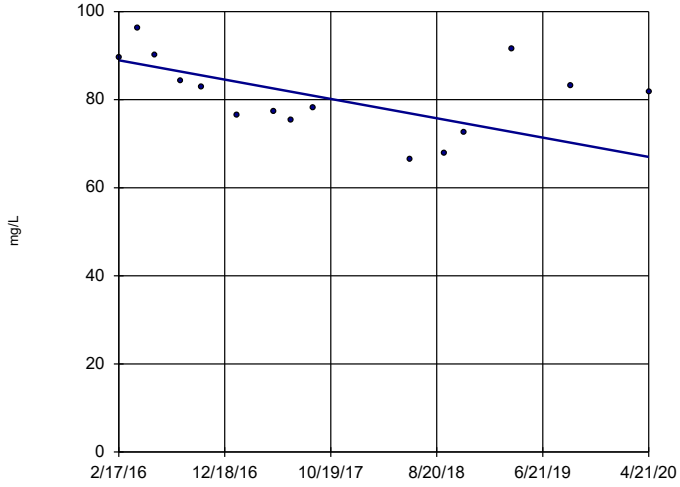
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 15

Slope = -5.253 units per year.

Mann-Kendall statistic = -35 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

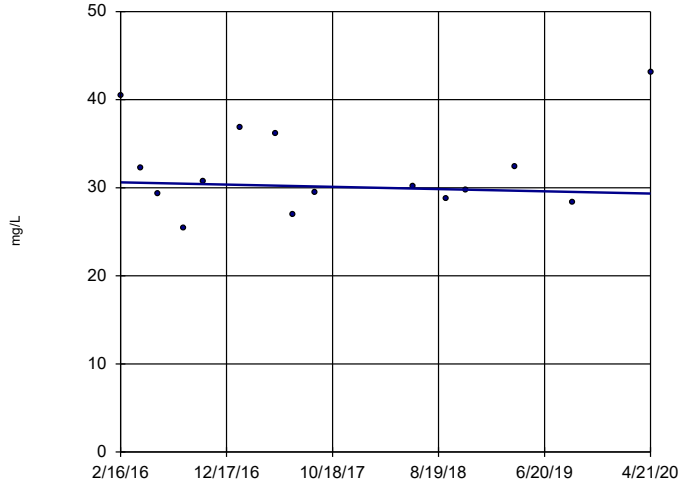
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 15

Slope = -0.3032 units per year.

Mann-Kendall statistic = -5 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

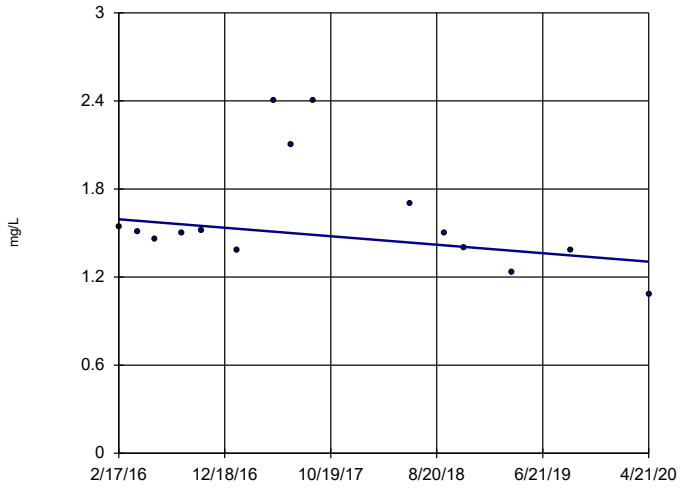
Constituent: Calcium Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 15

Slope = -0.06922 units per year.

Mann-Kendall statistic = -36 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

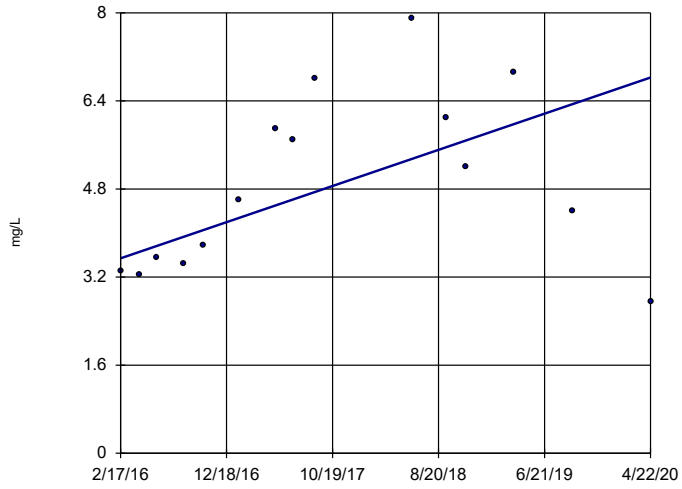
Constituent: Chloride Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 15

Slope = 0.7857 units per year.

Mann-Kendall statistic = 39 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

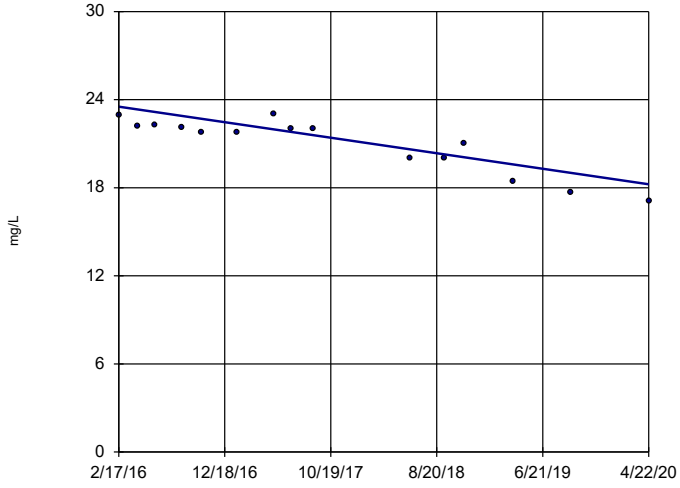
Constituent: Chloride Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-25



n = 15

Slope = -1.265 units per year.

Mann-Kendall statistic = -76 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

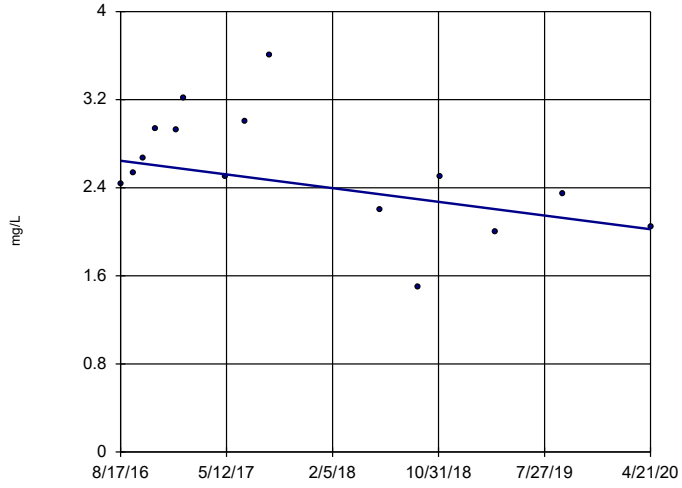
Constituent: Chloride Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 15

Slope = -0.1689 units per year.

Mann-Kendall statistic = -28 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

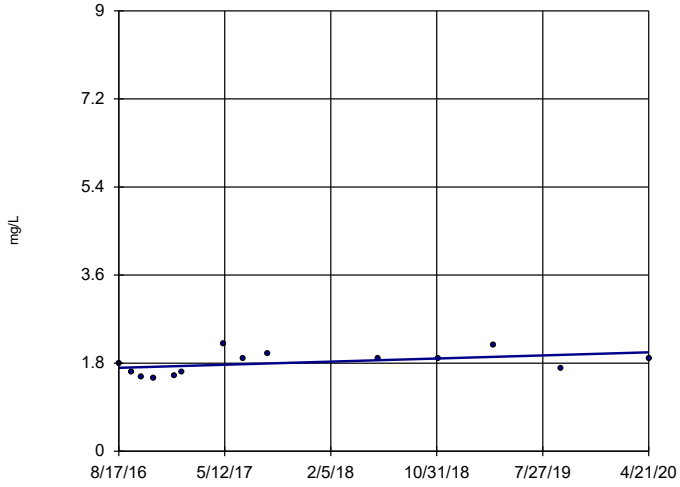
Constituent: Chloride Analysis Run 6/4/2020 3:30 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 15

Slope = 0.08632 units per year.

Mann-Kendall statistic = 27 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

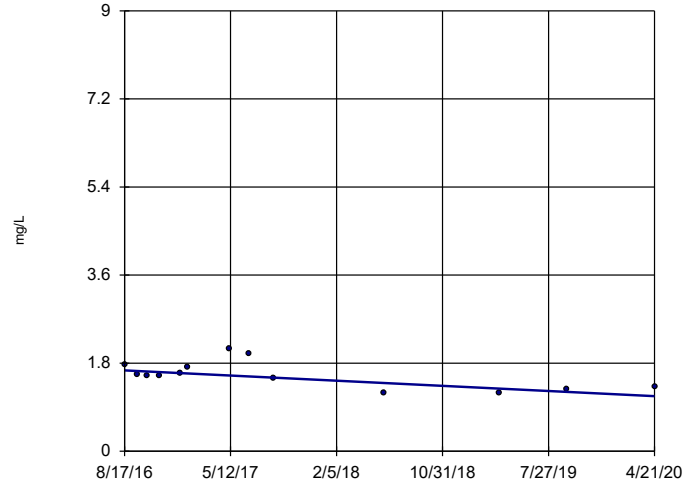
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 15

Slope = -0.1433 units per year.

Mann-Kendall statistic = -43 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

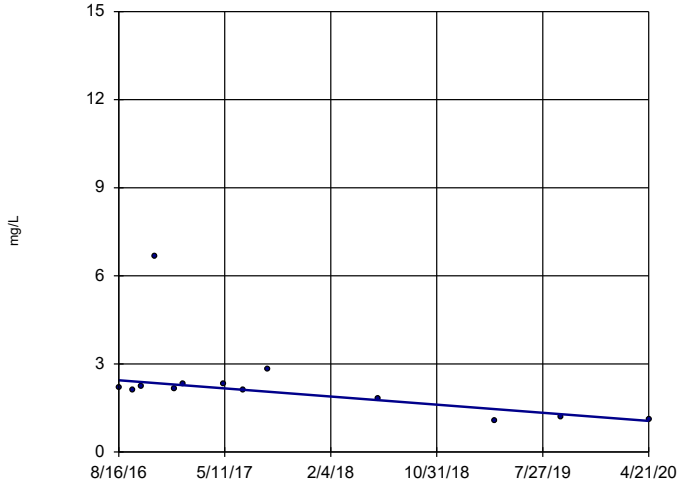
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 15

Slope = -0.3771 units per year.

Mann-Kendall statistic = -46 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

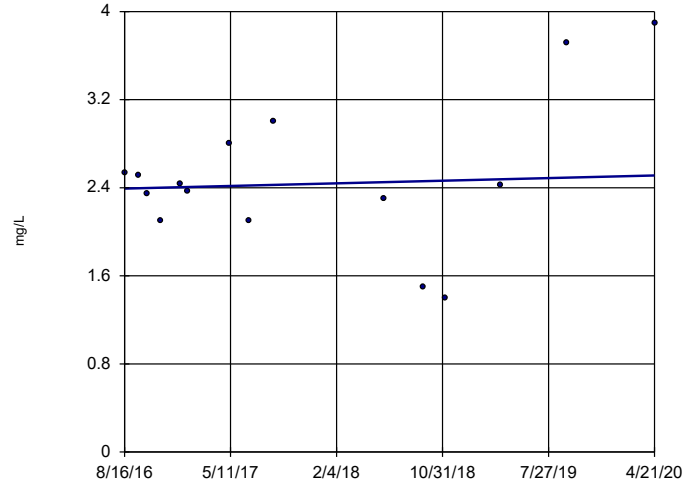
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 15

Slope = 0.03259 units per year.

Mann-Kendall statistic = 4 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

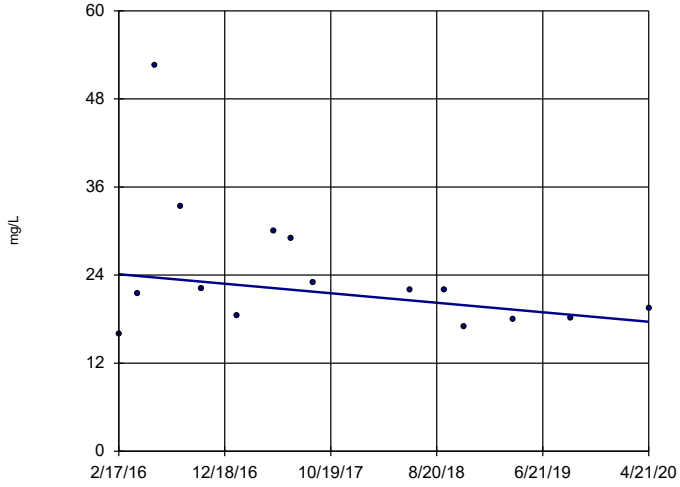
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 15

Slope = -1.549 units per year.

Mann-Kendall statistic = -30 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

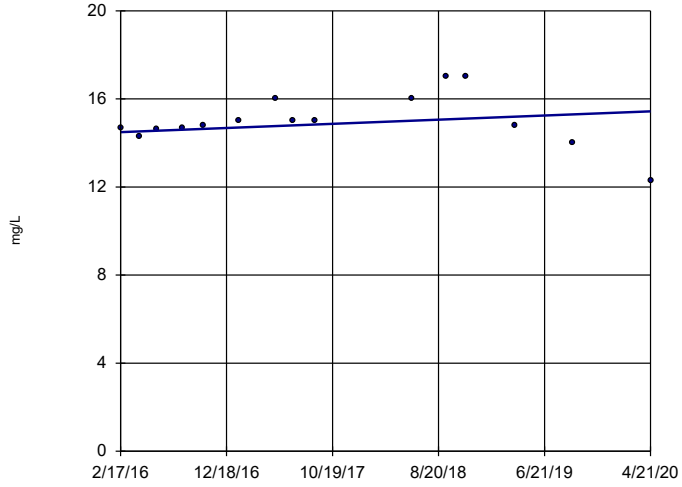
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 15

Slope = 0.226 units per year.

Mann-Kendall statistic = 22 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

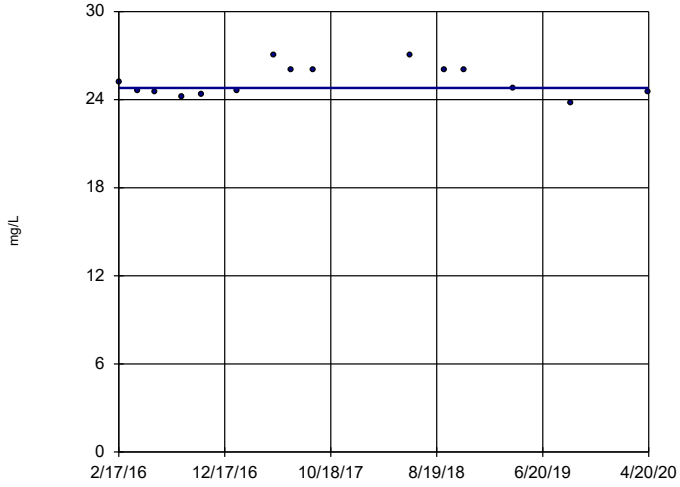
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-3



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

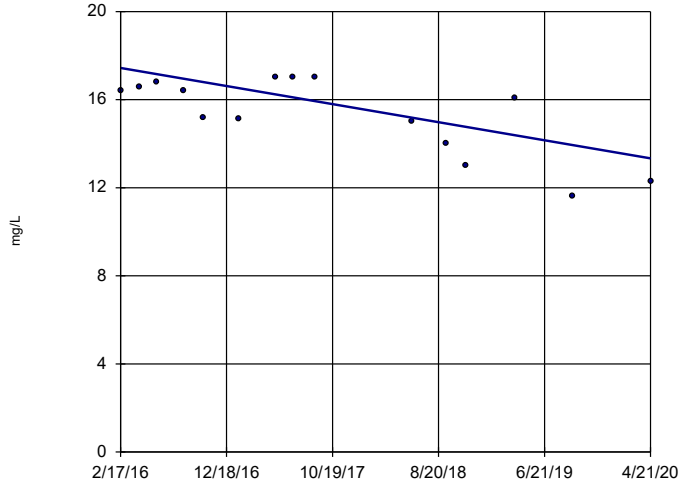
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 15

Slope = -0.9813 units per year.

Mann-Kendall statistic = -47 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

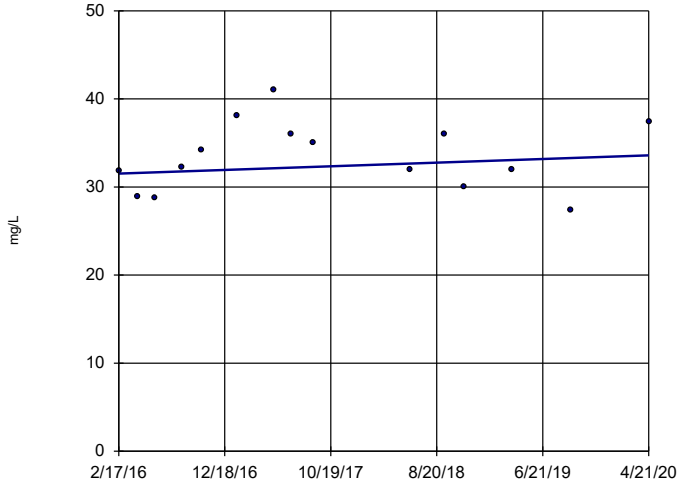
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 15

Slope = 0.4971 units per year.

Mann-Kendall statistic = 8 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

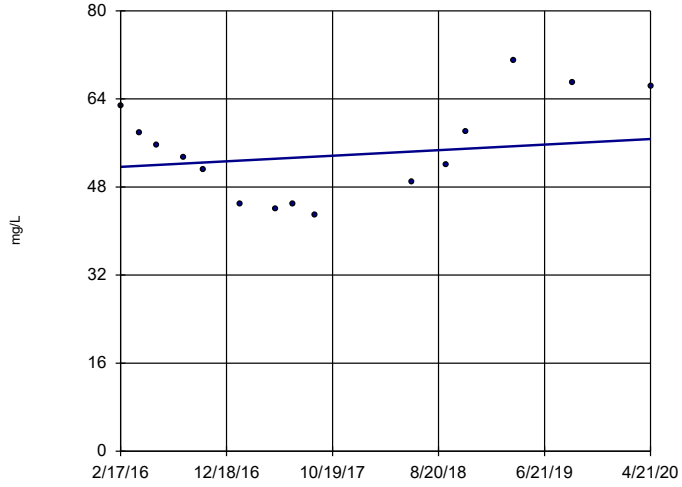
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 15

Slope = 1.206 units per year.

Mann-Kendall statistic = 11 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

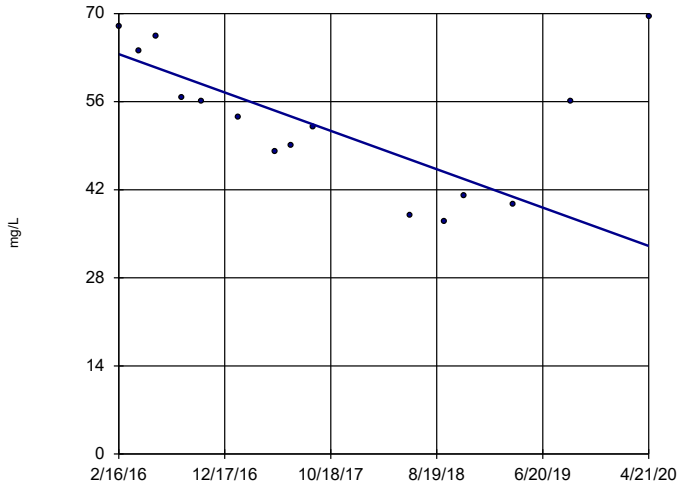
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 15

Slope = -7.29 units per year.

Mann-Kendall statistic = -44 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

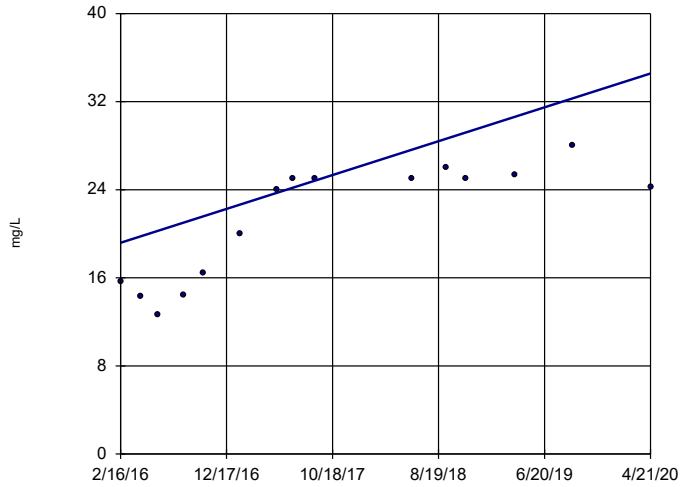
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 15

Slope = 3.679 units per year.

Mann-Kendall statistic = 73 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

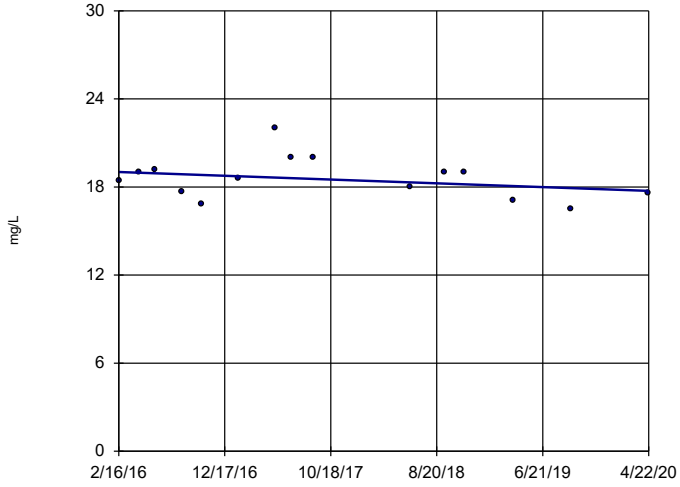
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 15

Slope = -0.3085 units per year.

Mann-Kendall statistic = -21 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

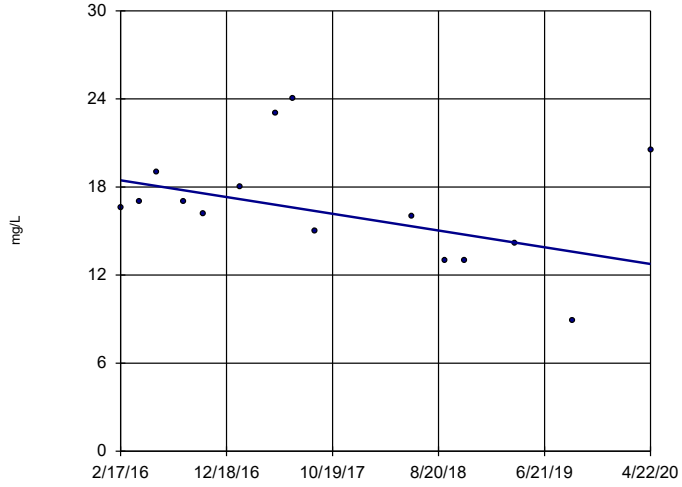
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-11



n = 15

Slope = -1.364 units per year.

Mann-Kendall statistic = -31 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

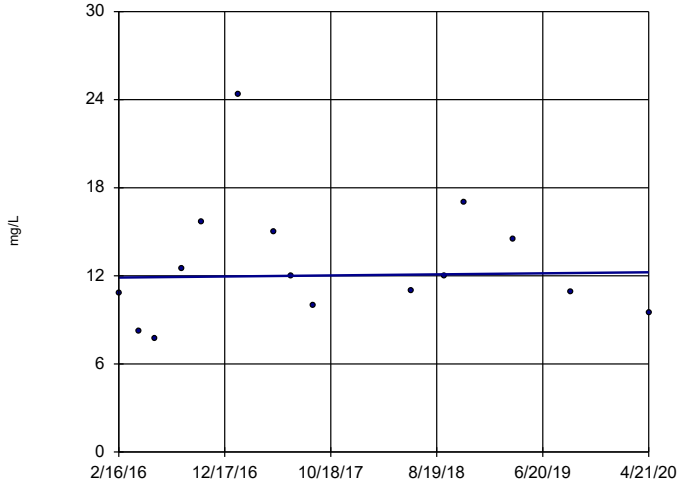
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 15

Slope = 0.0868 units per year.

Mann-Kendall statistic = 4 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

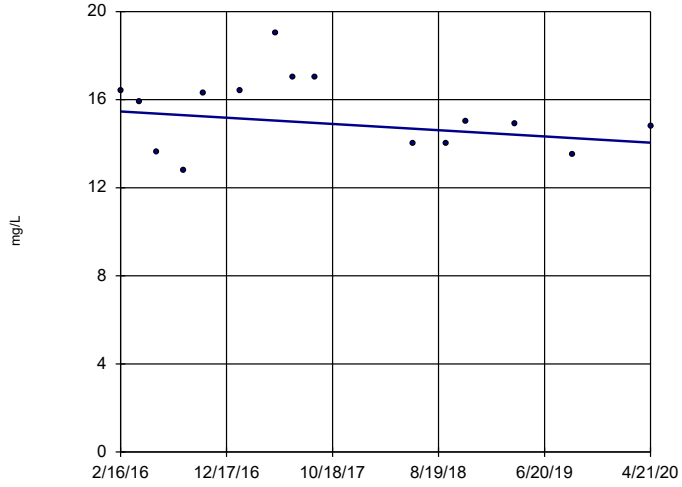
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 15

Slope = -0.3383 units per year.

Mann-Kendall statistic = -16 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

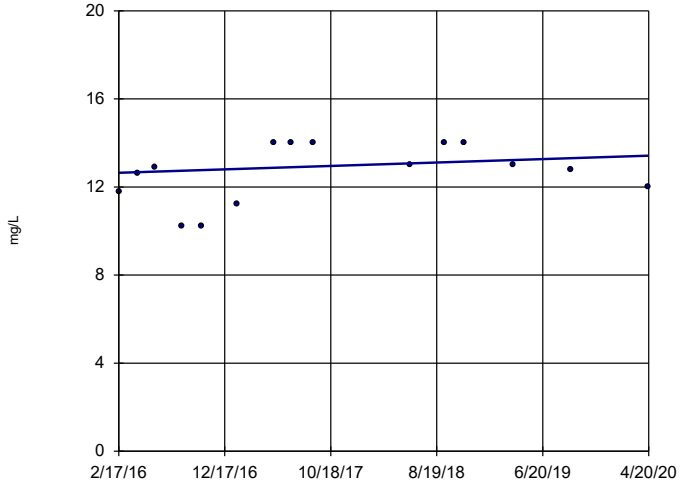
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 15

Slope = 0.1862 units per year.

Mann-Kendall statistic = 23 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

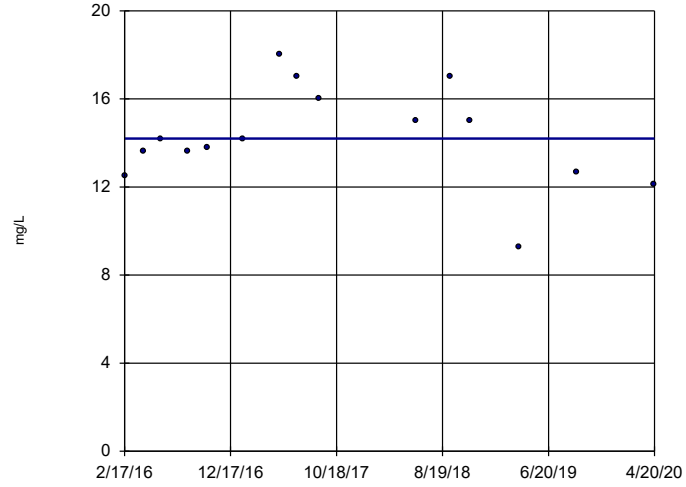
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

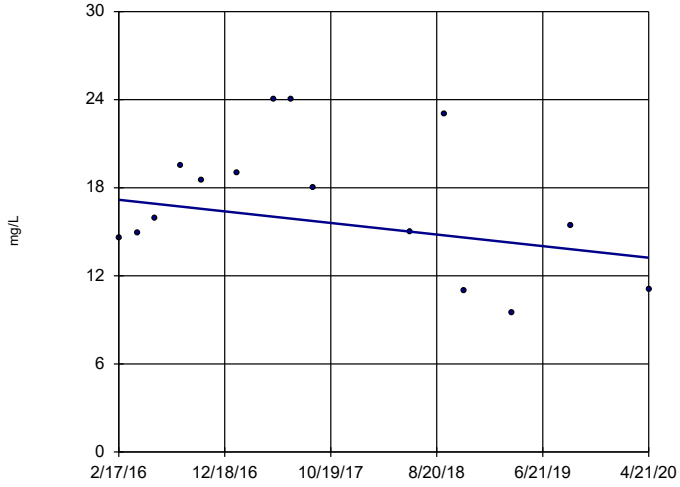
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 15

Slope = -0.9442 units per year.

Mann-Kendall statistic = -14 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

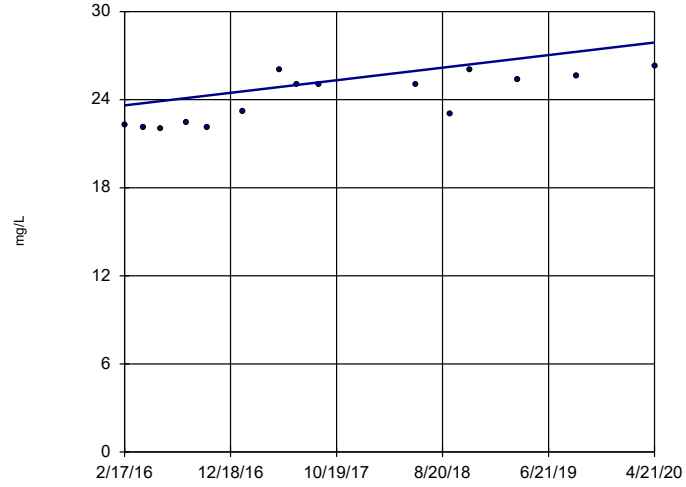
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 15

Slope = 1.026 units per year.

Mann-Kendall statistic = 66 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

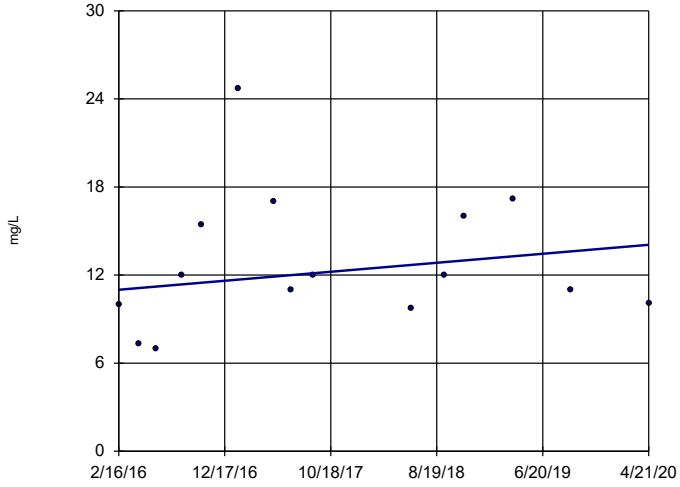
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 15

Slope = 0.7341 units per year.

Mann-Kendall statistic = 17 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

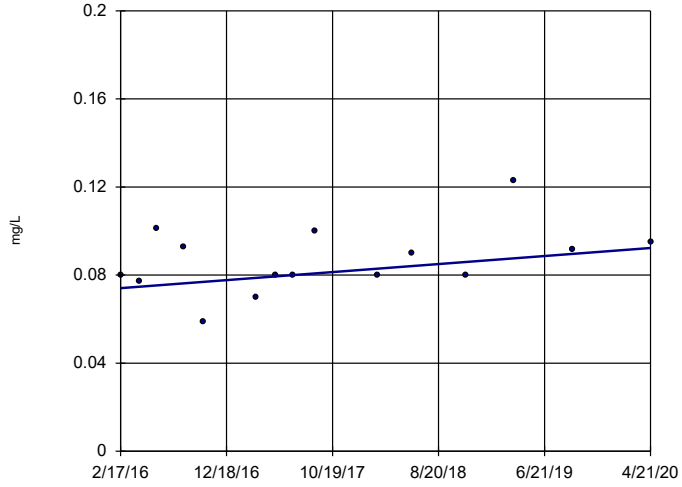
Constituent: Chloride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 15

Slope = 0.00435 units per year.

Mann-Kendall statistic = 31 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

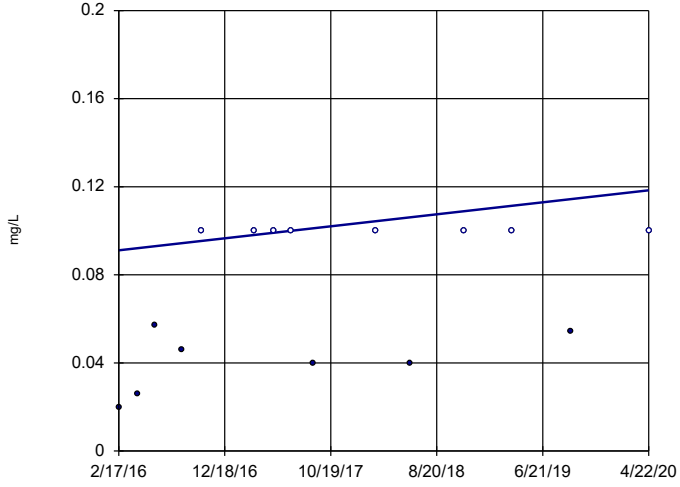
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 15

Slope = 0.006518 units per year.

Mann-Kendall statistic = 32 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

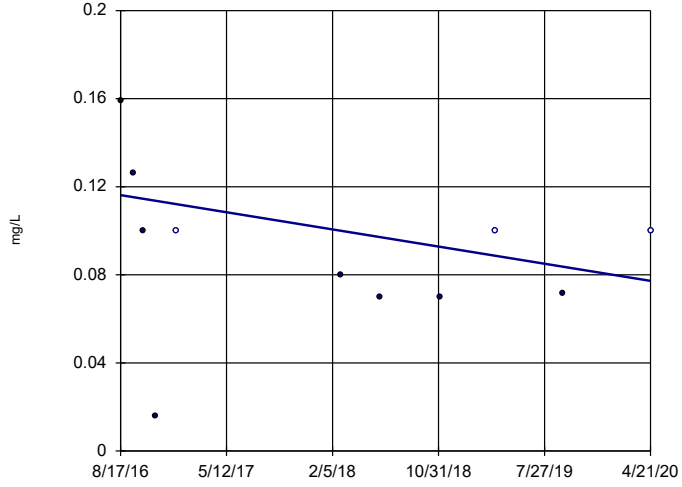
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 11

Slope = -0.01058 units per year.

Mann-Kendall statistic = -16 critical = -34

Trend not significant at 99% confidence level (α = 0.005 per tail).

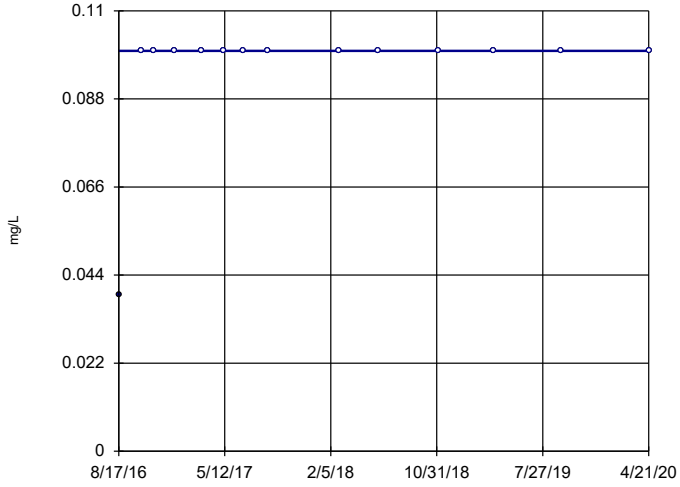
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 14

Slope = 0
units per year.

Mann-Kendall
statistic = 13
critical = 48

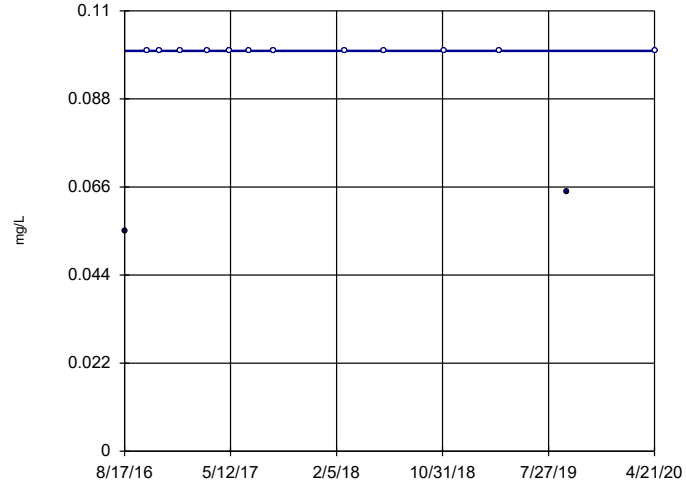
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 14

Slope = 0
units per year.

Mann-Kendall
statistic = 3
critical = 48

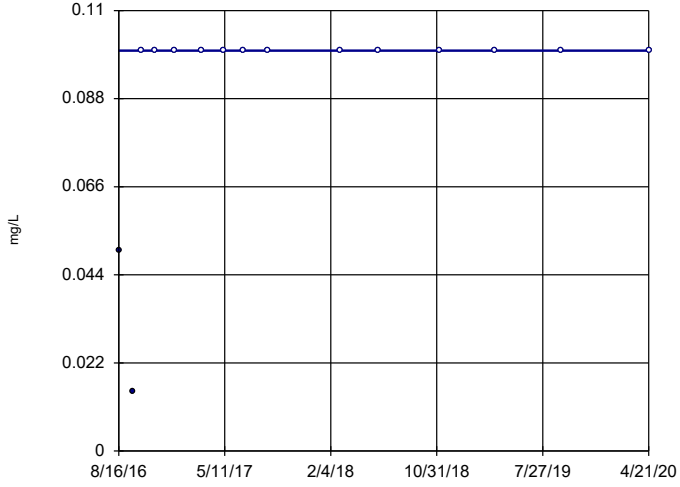
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 25
critical = 53

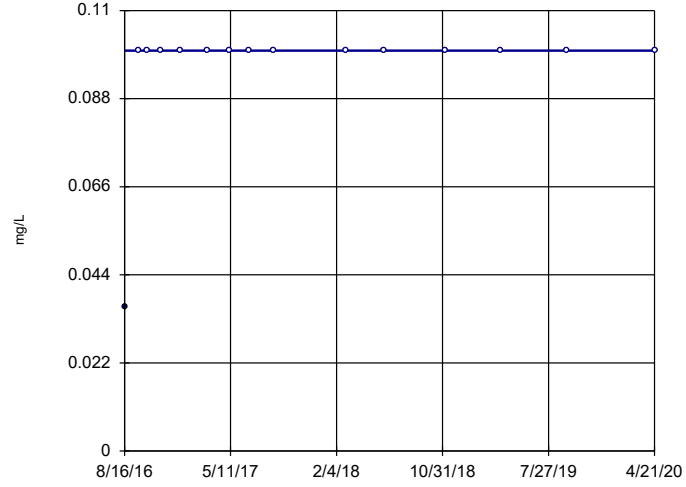
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 14
critical = 53

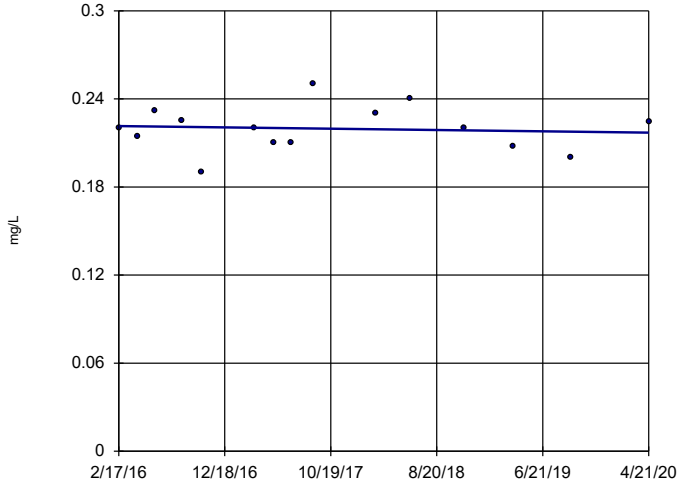
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 15

Slope = -0.001063 units per year.

Mann-Kendall statistic = -7 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

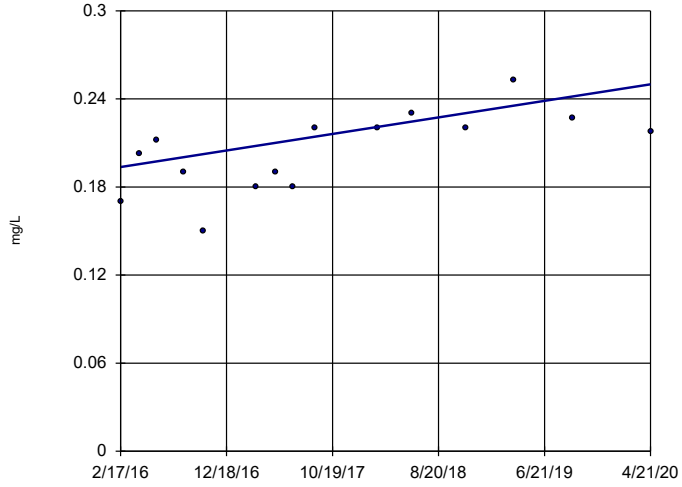
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 15

Slope = 0.01349 units per year.

Mann-Kendall statistic = 52 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

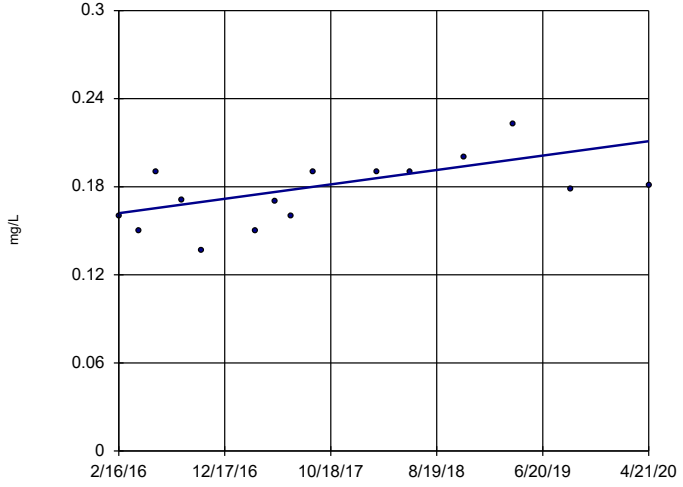
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 15

Slope = 0.01172 units per year.

Mann-Kendall statistic = 45 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

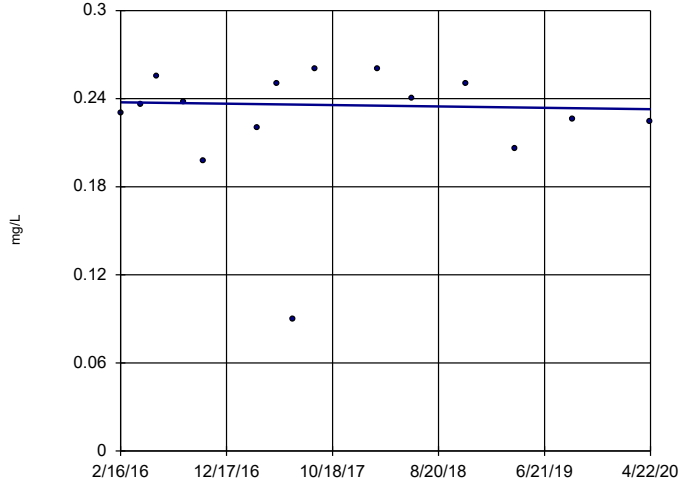
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 15

Slope = -0.001121 units per year.

Mann-Kendall statistic = -3 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

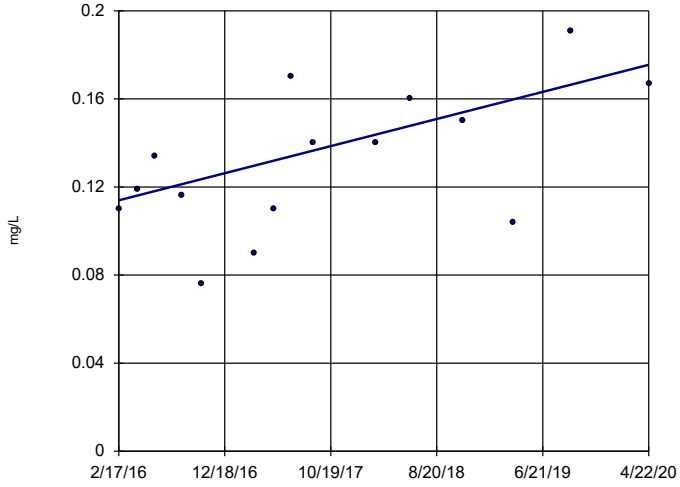
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-11



n = 15

Slope = 0.01472 units per year.

Mann-Kendall statistic = 43 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

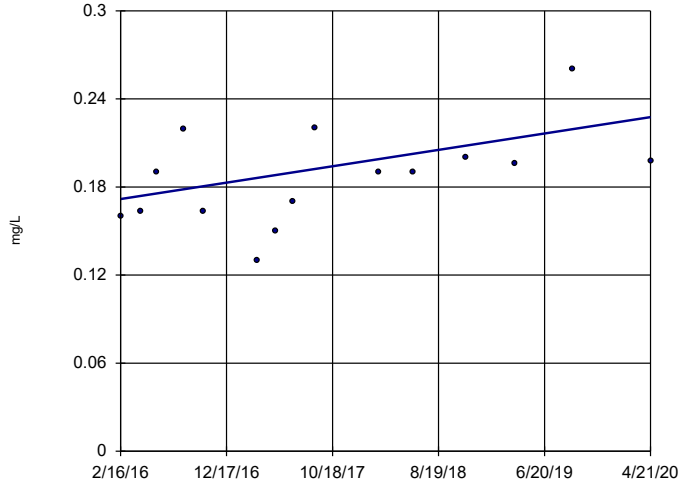
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 15

Slope = 0.01336 units per year.

Mann-Kendall statistic = 47 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

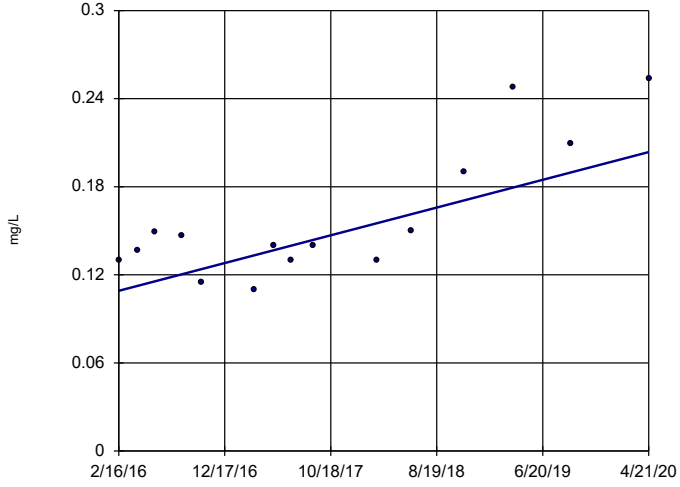
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 15

Slope = 0.02259 units per year.

Mann-Kendall statistic = 53 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

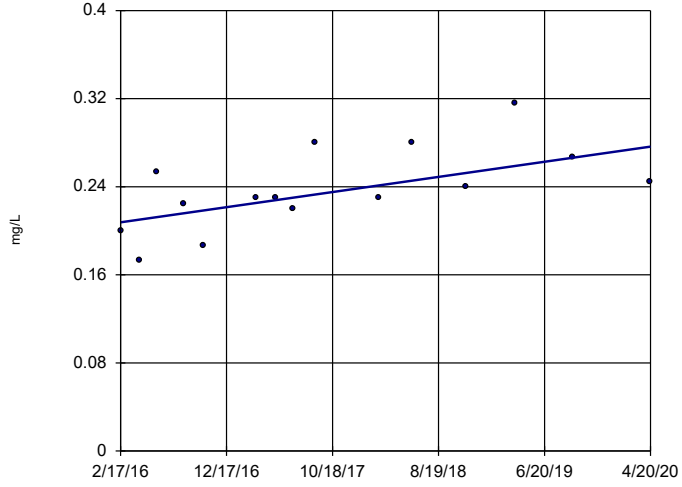
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 15

Slope = 0.01646 units per year.

Mann-Kendall statistic = 53 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

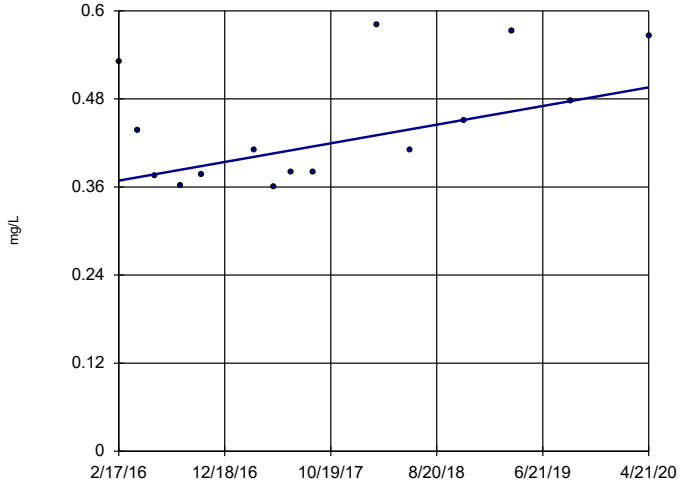
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 15

Slope = 0.03042 units per year.

Mann-Kendall statistic = 37 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

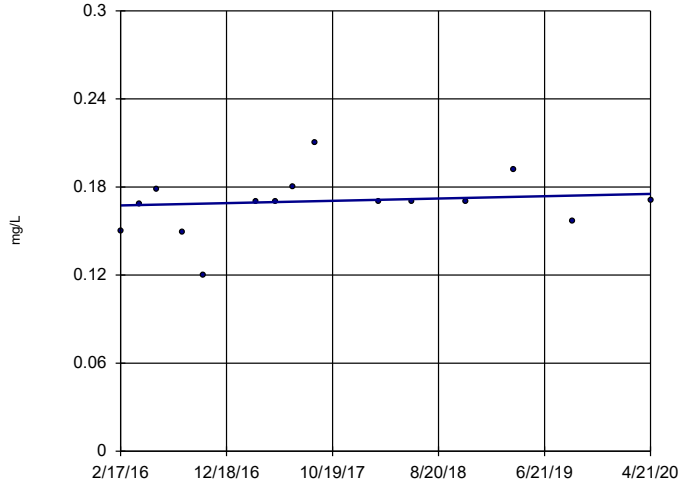
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 15

Slope = 0.001858 units per year.

Mann-Kendall statistic = 29 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

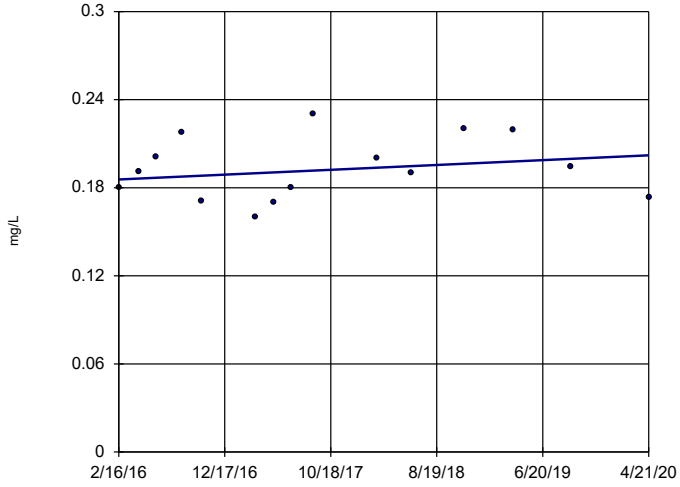
Constituent: Fluoride Analysis Run 6/4/2020 3:31 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 15

Slope = 0.003925 units per year.

Mann-Kendall statistic = 14 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

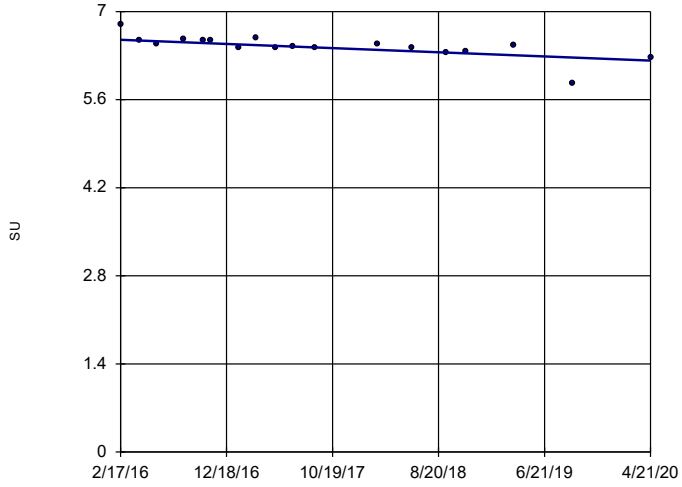
Constituent: Fluoride Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 18

Slope = -0.07935 units per year.

Mann-Kendall statistic = -89 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

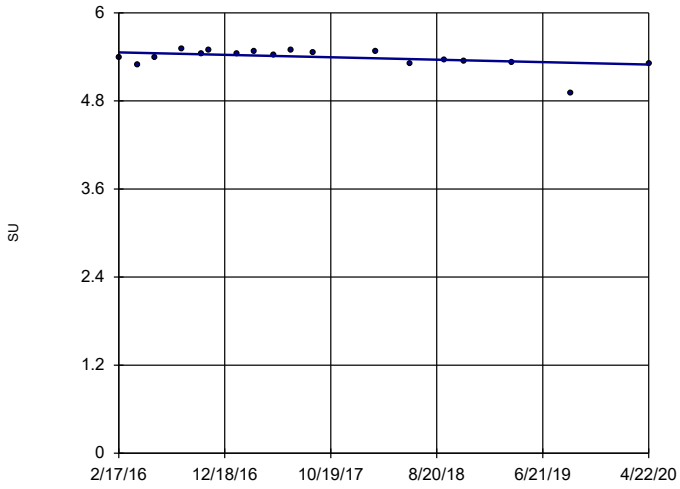
Constituent: pH Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 18

Slope = -0.03964 units per year.

Mann-Kendall statistic = -47 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

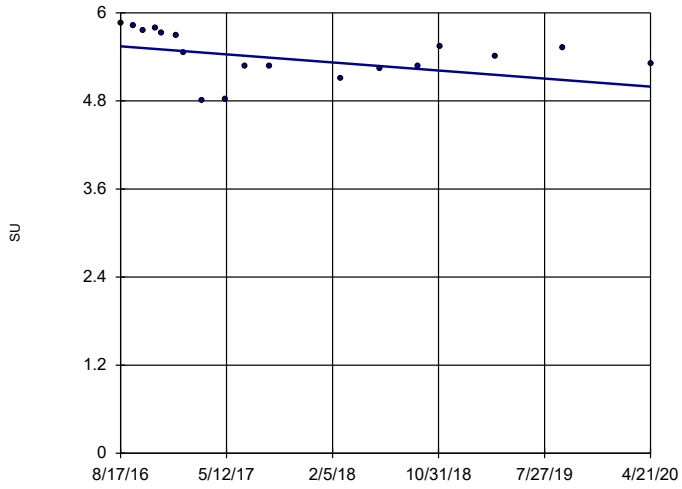
Constituent: pH Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 18

Slope = -0.1495 units per year.

Mann-Kendall statistic = -56 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

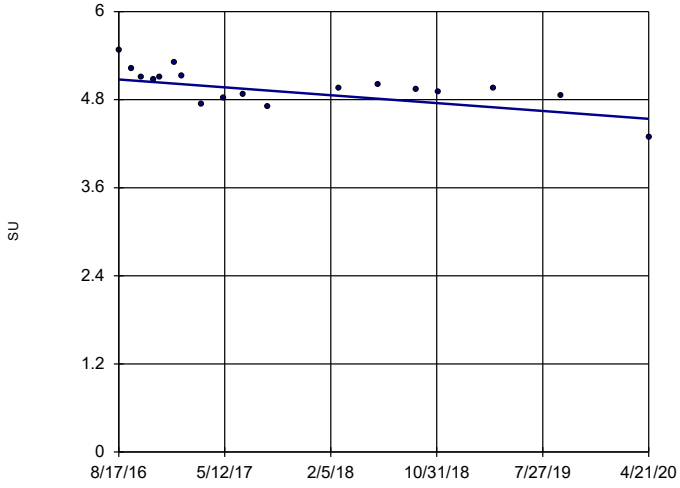
Constituent: pH Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 18

Slope = -0.146 units per year.

Mann-Kendall statistic = -77 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

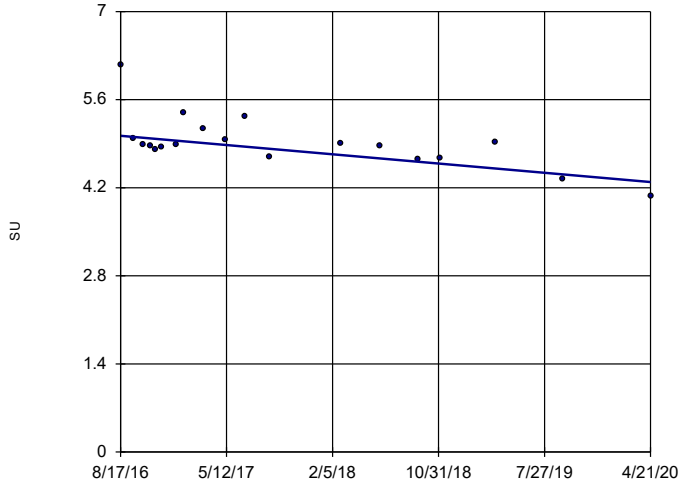
Constituent: pH Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 19

Slope = -0.1998 units per year.

Mann-Kendall statistic = -71 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

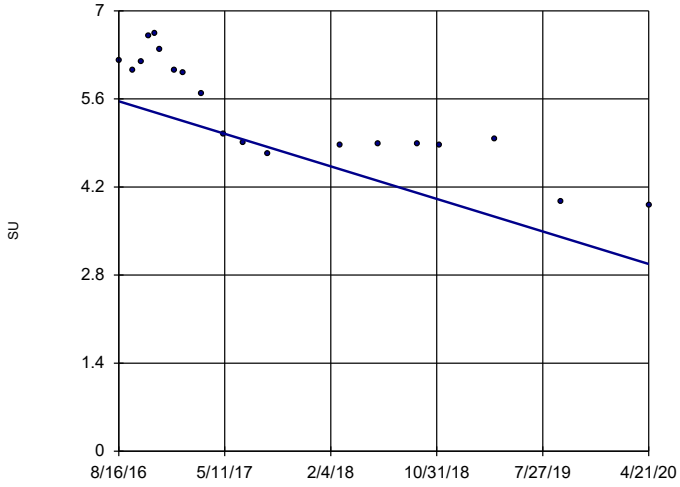
Constituent: pH Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 19

Slope = -0.7024 units per year.

Mann-Kendall statistic = -123 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

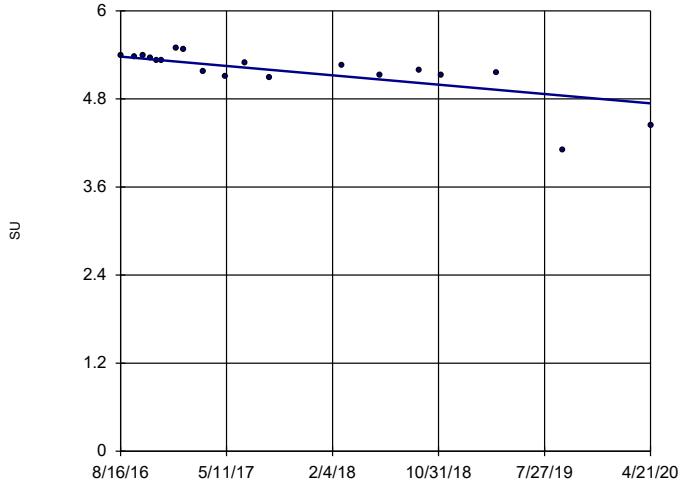
Constituent: pH Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 19

Slope = -0.1728 units per year.

Mann-Kendall statistic = -106 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

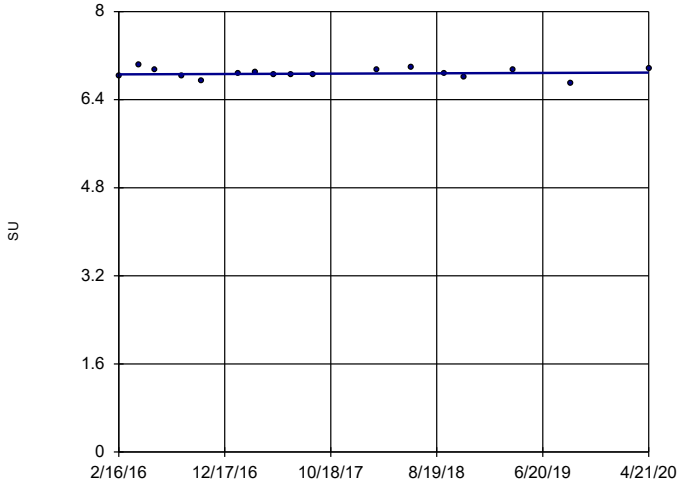
Constituent: pH Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 17

Slope = 0.007738 units per year.

Mann-Kendall statistic = 10 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

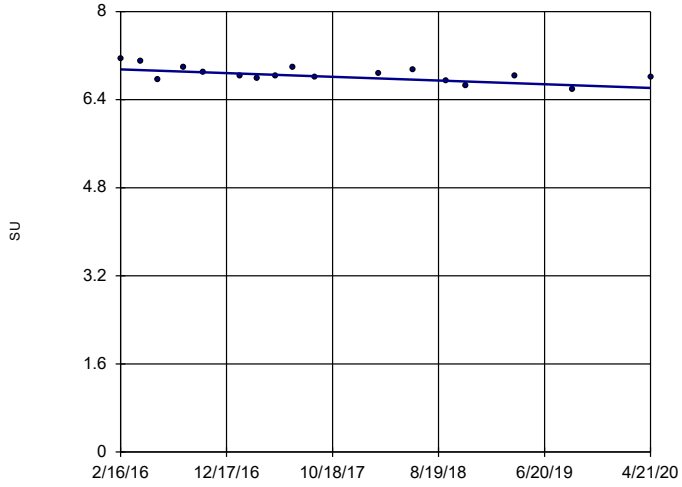
Constituent: pH Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 17

Slope = -0.08033 units per year.

Mann-Kendall statistic = -61 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

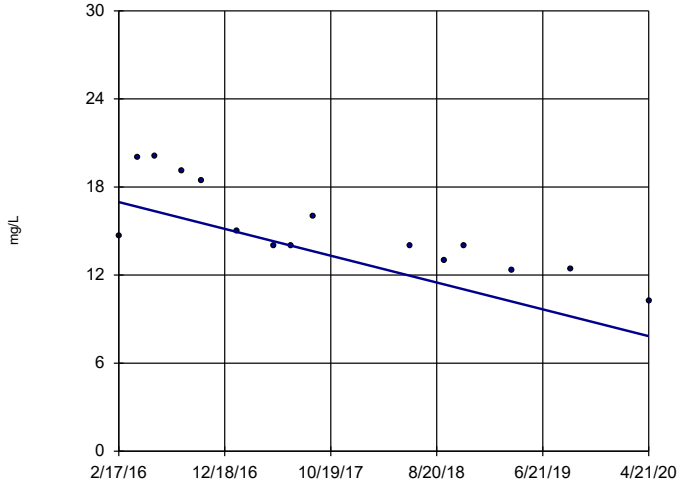
Constituent: pH Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 15

Slope = -2.183 units per year.

Mann-Kendall statistic = -75 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

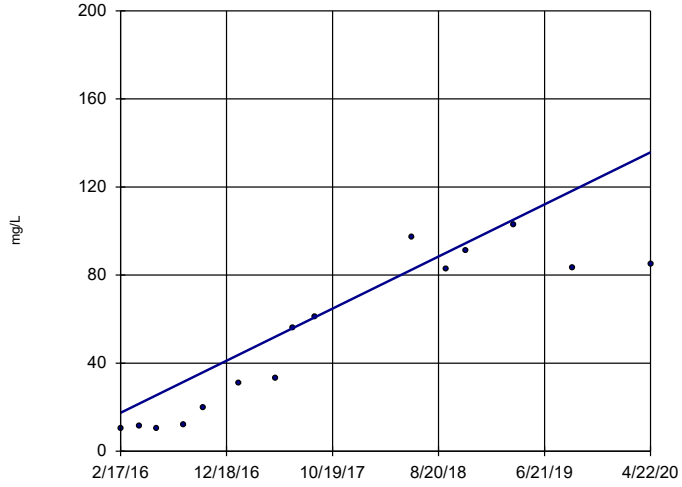
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 15

Slope = 28.28 units per year.

Mann-Kendall statistic = 86 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

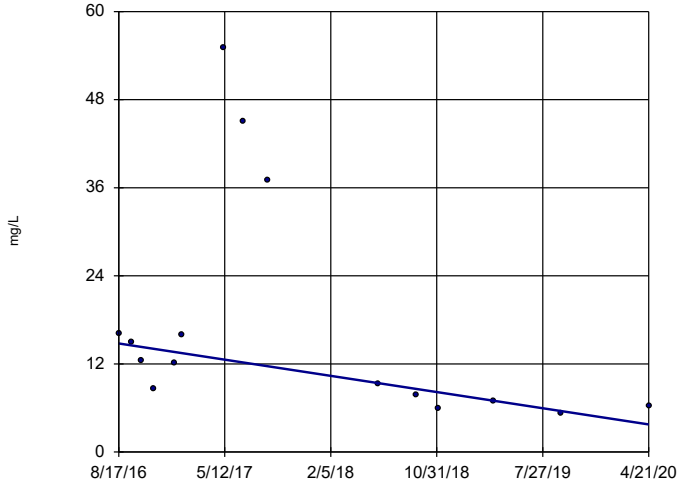
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 15

Slope = -2.996 units per year.

Mann-Kendall statistic = -51 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

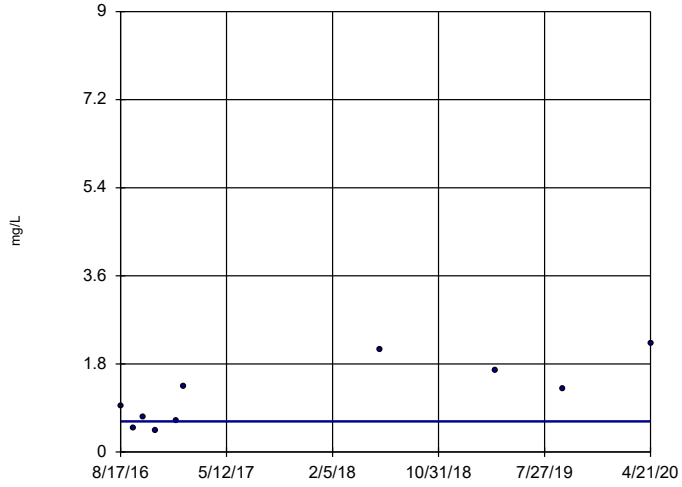
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 9 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

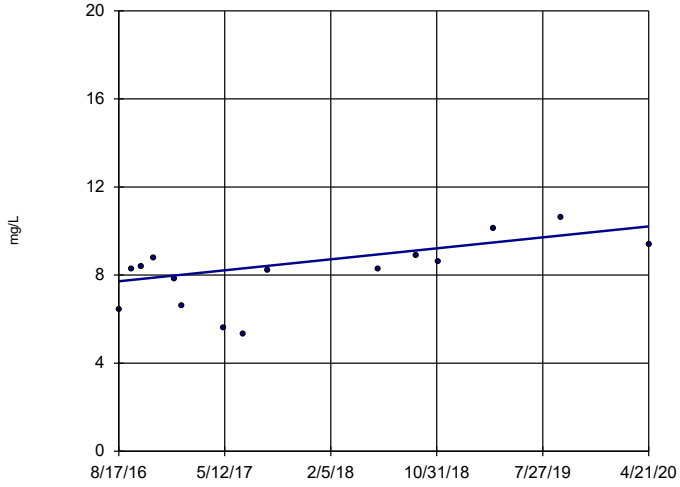
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 15

Slope = 0.6777 units per year.

Mann-Kendall statistic = 46 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

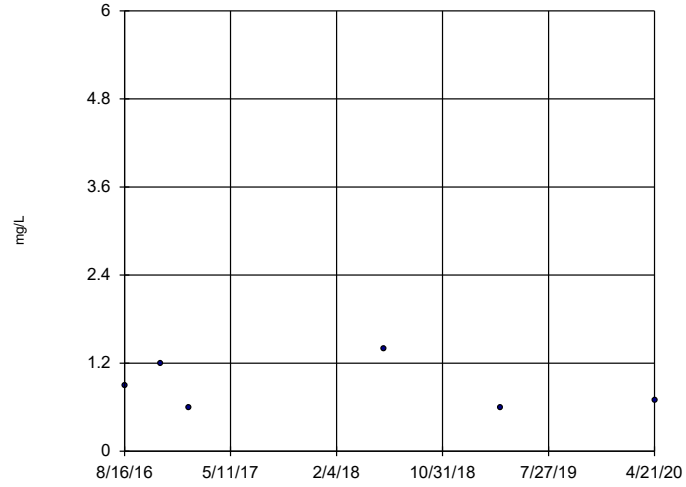
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = -1 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

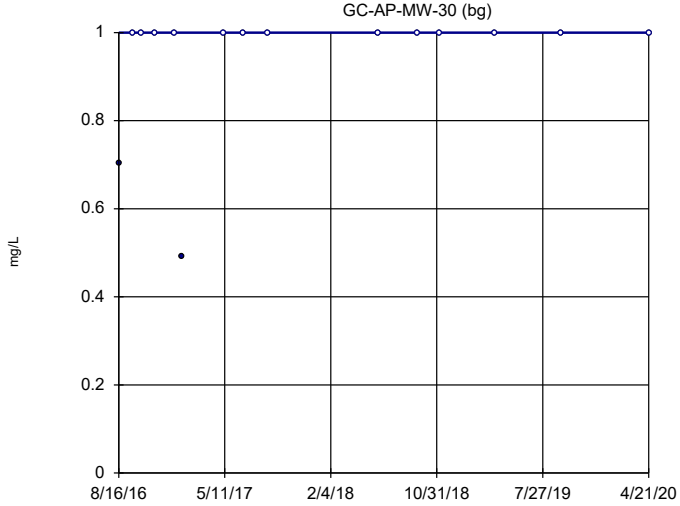
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 17 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

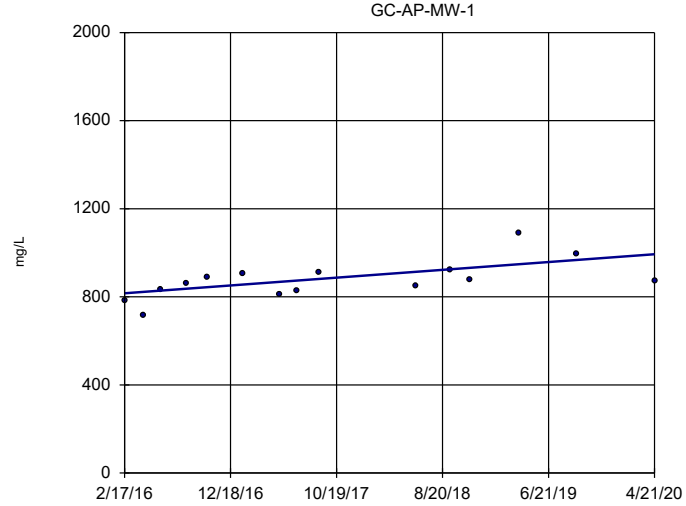
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 15

Slope = 42.33 units per year.

Mann-Kendall statistic = 55 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

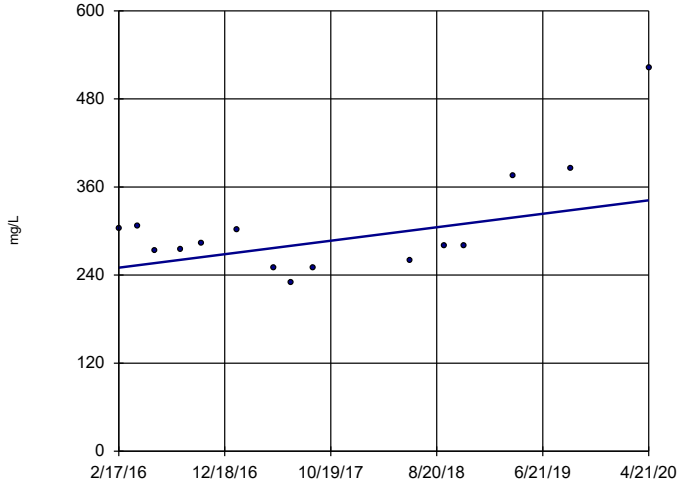
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 15

Slope = 21.99 units per year.

Mann-Kendall statistic = 21 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

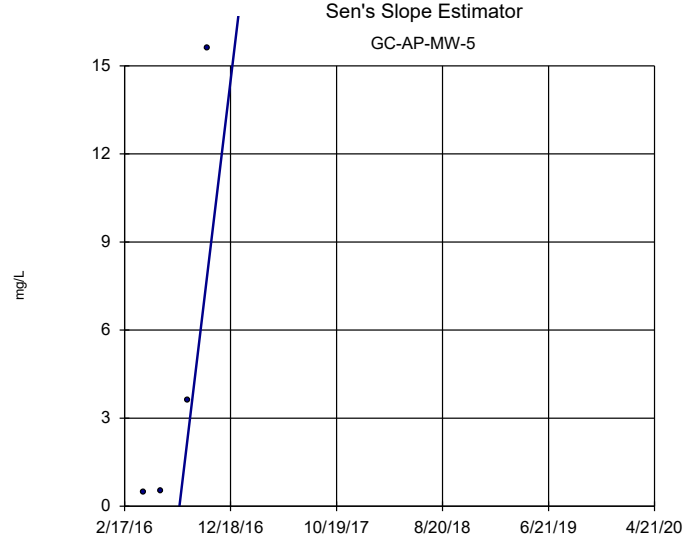
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-5



n = 15

Slope = 35.94 units per year.

Mann-Kendall statistic = 85 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

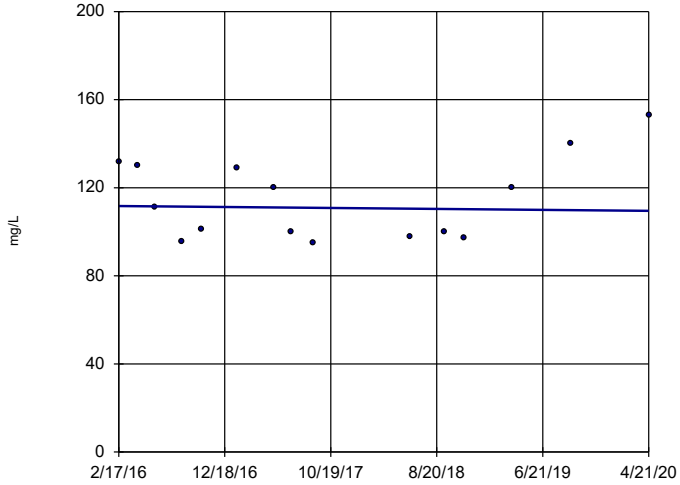
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 15

Slope = -0.5214 units per year.

Mann-Kendall statistic = -3 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

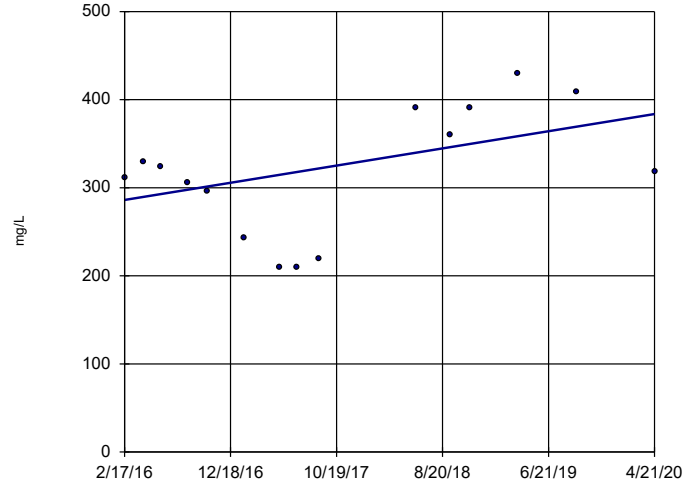
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 15

Slope = 23.35 units per year.

Mann-Kendall statistic = 23 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

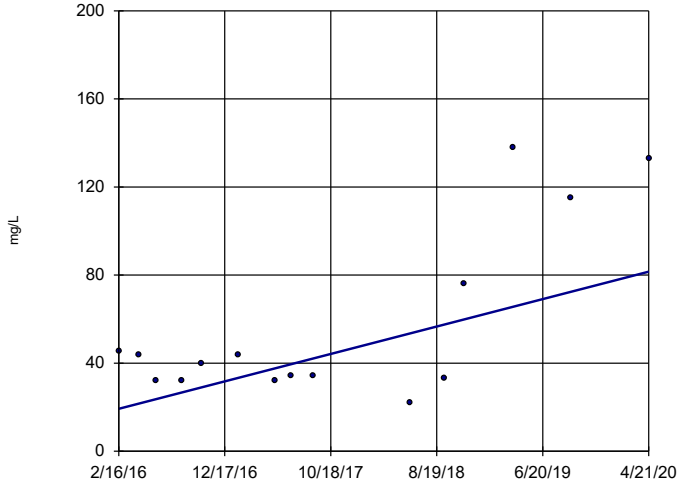
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 15

Slope = 14.9 units per year.

Mann-Kendall statistic = 27 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

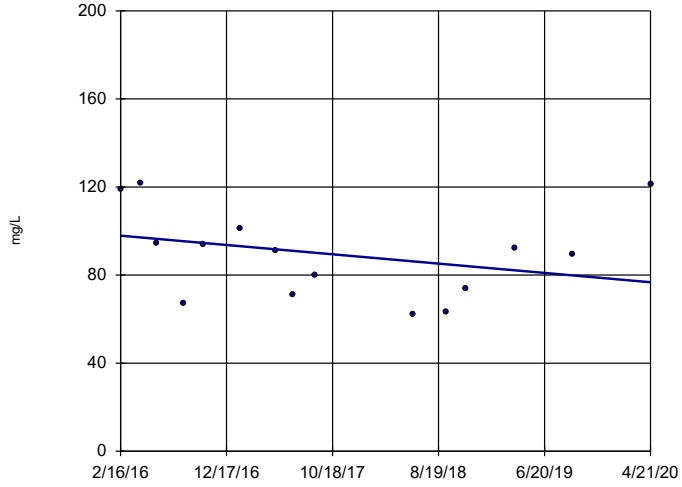
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 15

Slope = -5.058 units per year.

Mann-Kendall statistic = -25 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

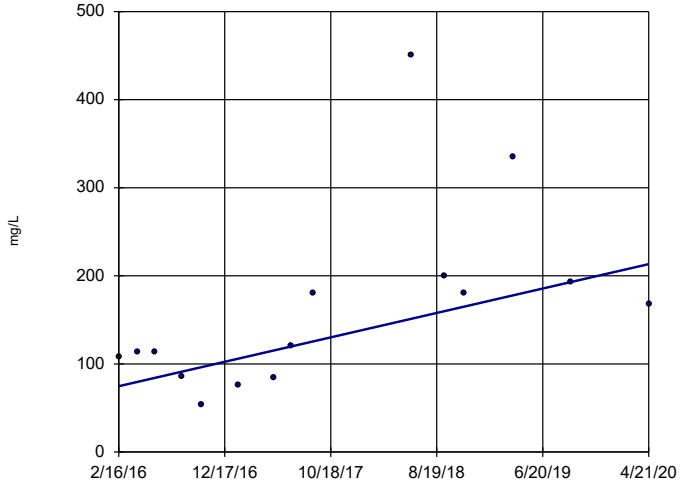
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 15

Slope = 33.14 units per year.

Mann-Kendall statistic = 47 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

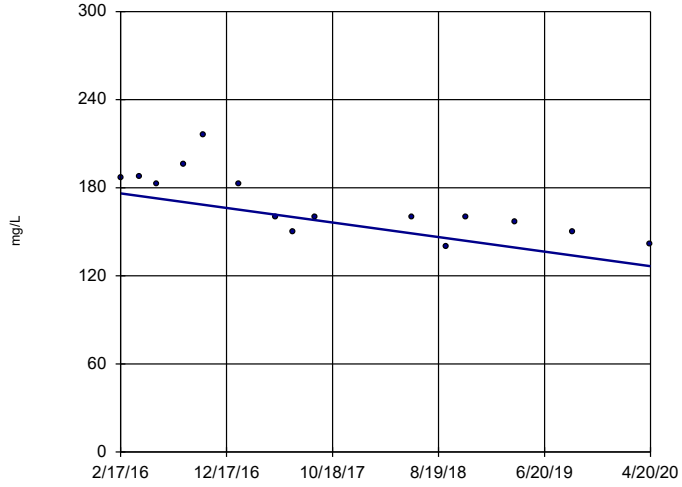
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 15

Slope = -11.85 units per year.

Mann-Kendall statistic = -65 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

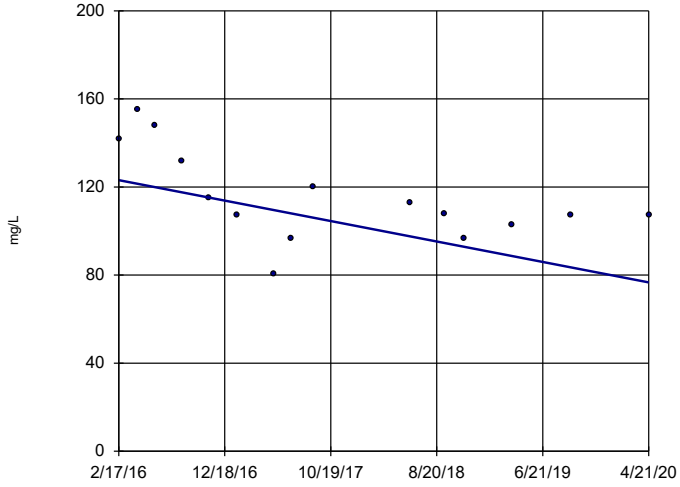
Constituent: Sulfate Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 15

Slope = -11.12 units per year.

Mann-Kendall statistic = -51 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

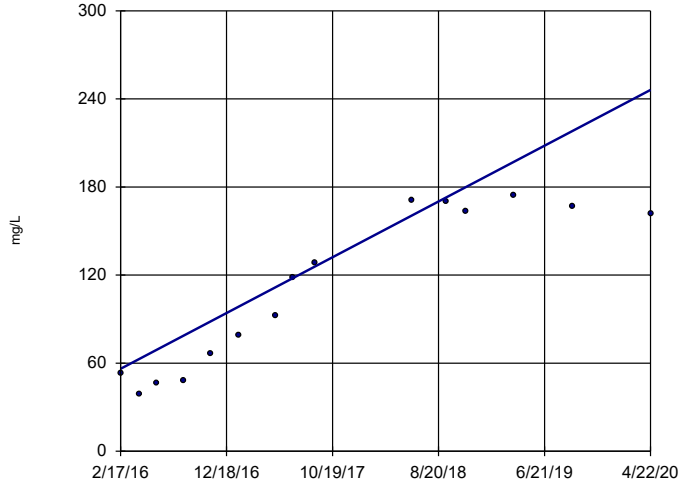
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 15

Slope = 45.45 units per year.

Mann-Kendall statistic = 77 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

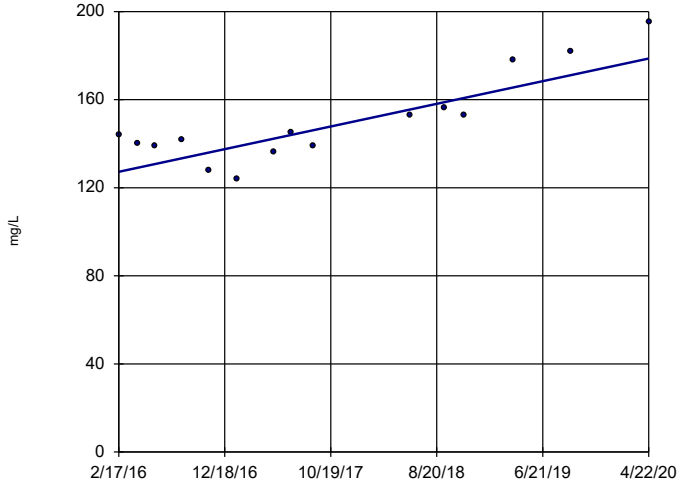
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-25



n = 15

Slope = 12.3 units per year.

Mann-Kendall statistic = 59 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

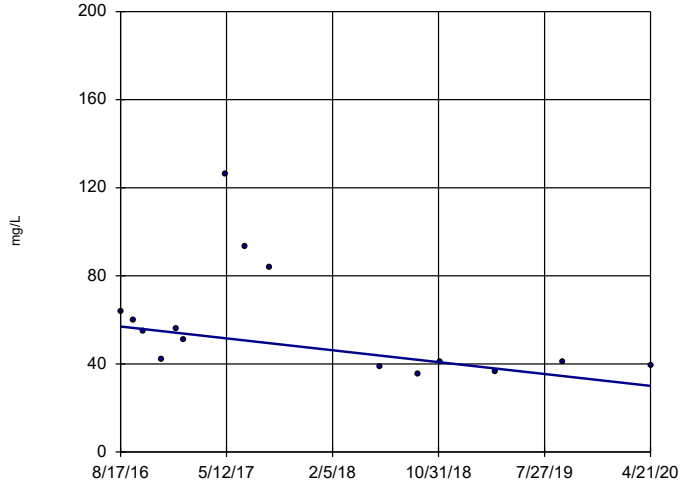
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 15

Slope = -7.341 units per year.

Mann-Kendall statistic = -44 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

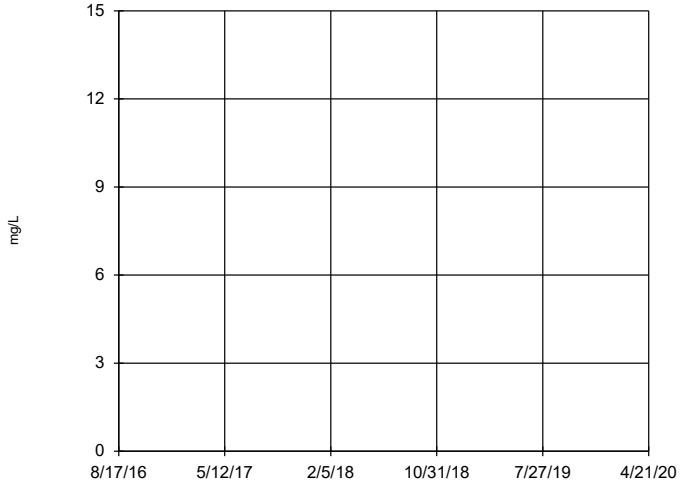
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 6
critical = 53

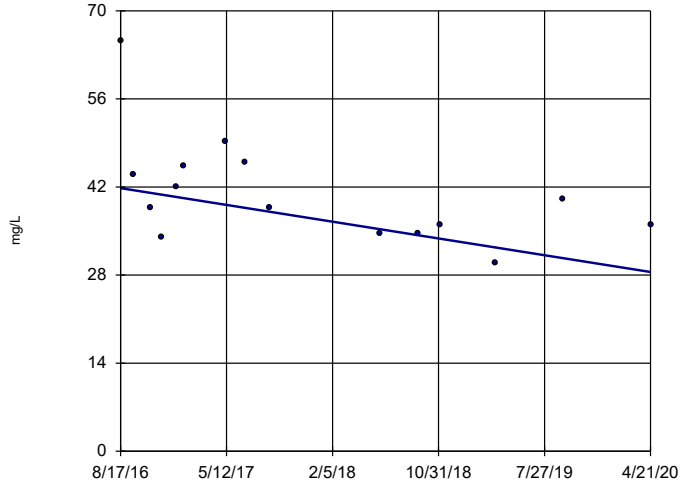
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 15

Slope = -3.625
units per year.

Mann-Kendall
statistic = -36
critical = -53

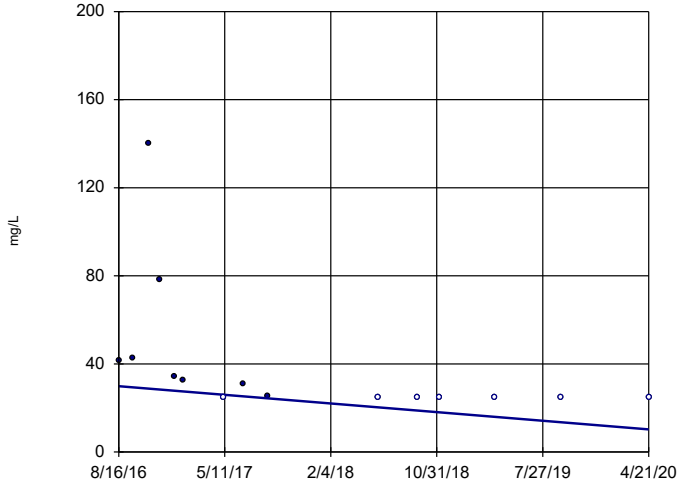
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 15

Slope = -5.341
units per year.

Mann-Kendall
statistic = -70
critical = -53

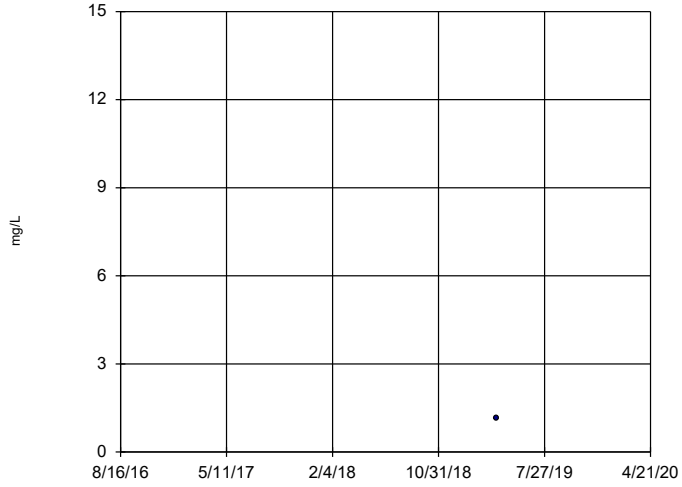
Decreasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 15

Slope = 0.9158
units per year.

Mann-Kendall
statistic = 16
critical = 53

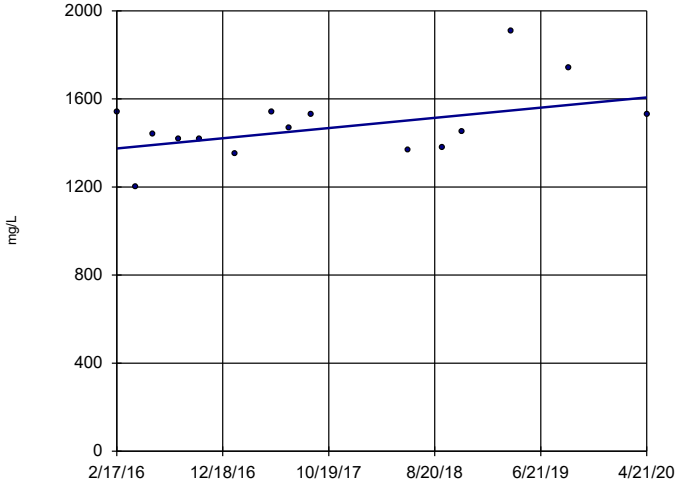
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 15

Slope = 55.54 units per year.

Mann-Kendall statistic = 28 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

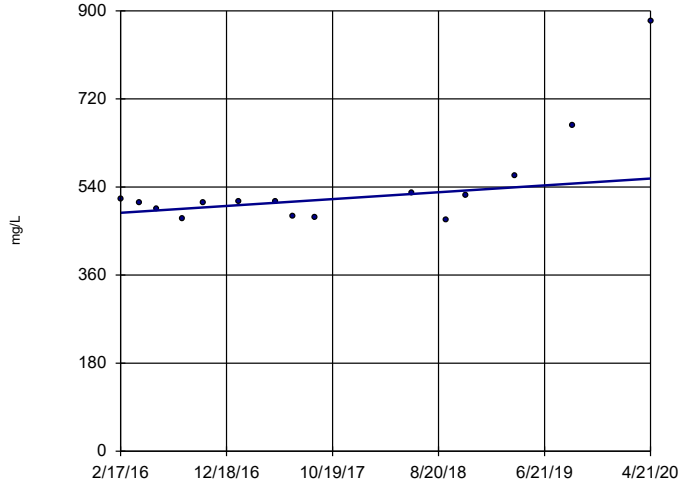
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 15

Slope = 16.8 units per year.

Mann-Kendall statistic = 37 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

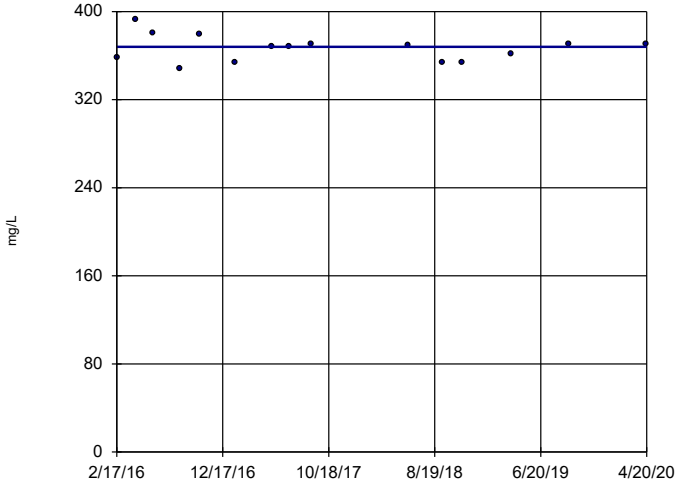
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-3



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

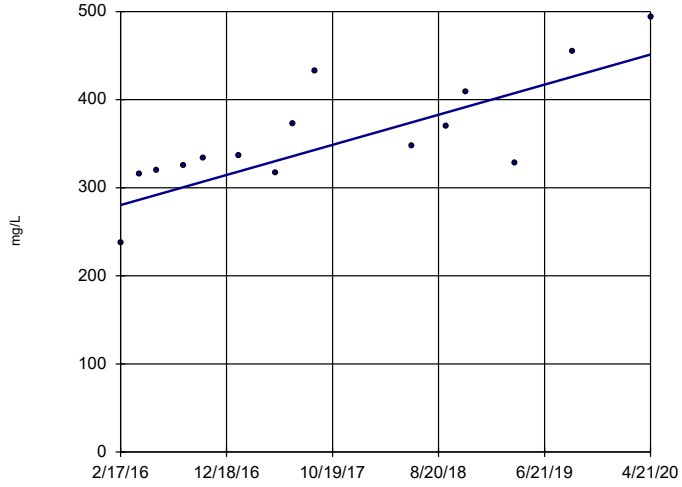
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 15

Slope = 40.93 units per year.

Mann-Kendall statistic = 73 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

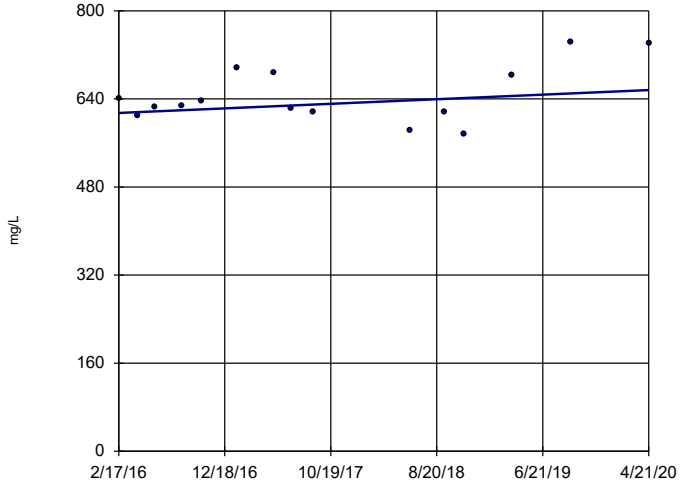
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 15

Slope = 9.91 units per year.

Mann-Kendall statistic = 8 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

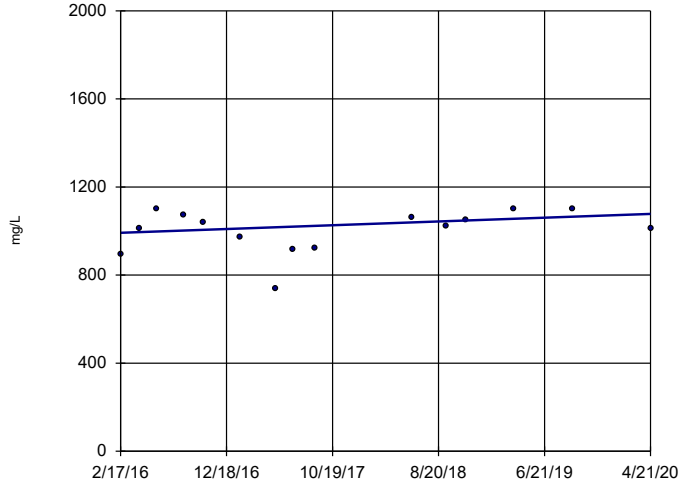
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 15

Slope = 20.6 units per year.

Mann-Kendall statistic = 21 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

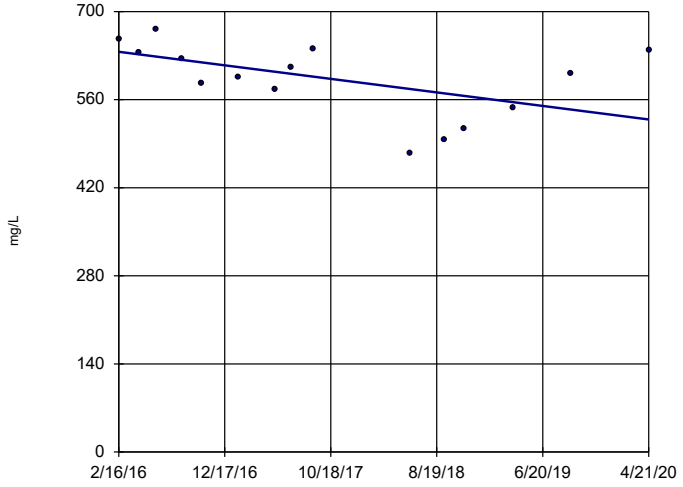
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 15

Slope = -25.73 units per year.

Mann-Kendall statistic = -33 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

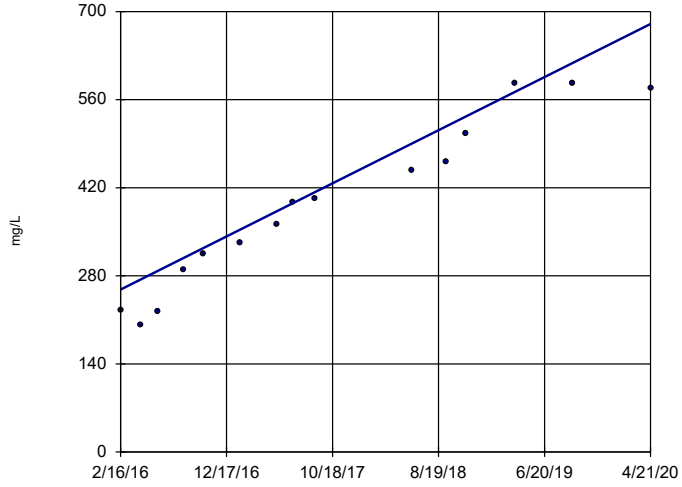
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 15

Slope = 100.9 units per year.

Mann-Kendall statistic = 96 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

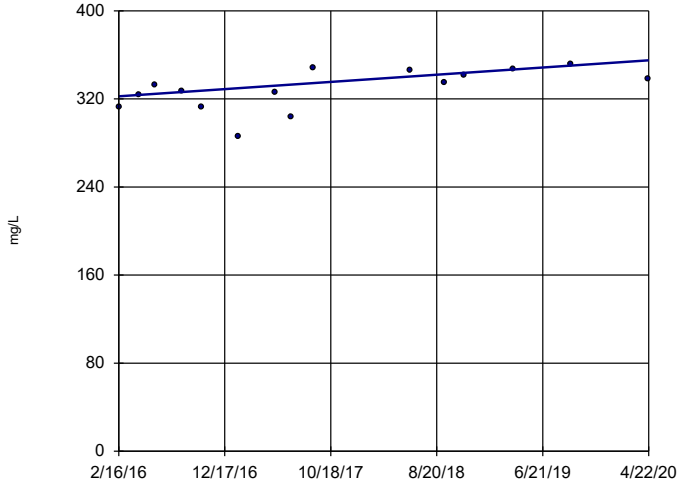
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 15

Slope = 7.821 units per year.

Mann-Kendall statistic = 48 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

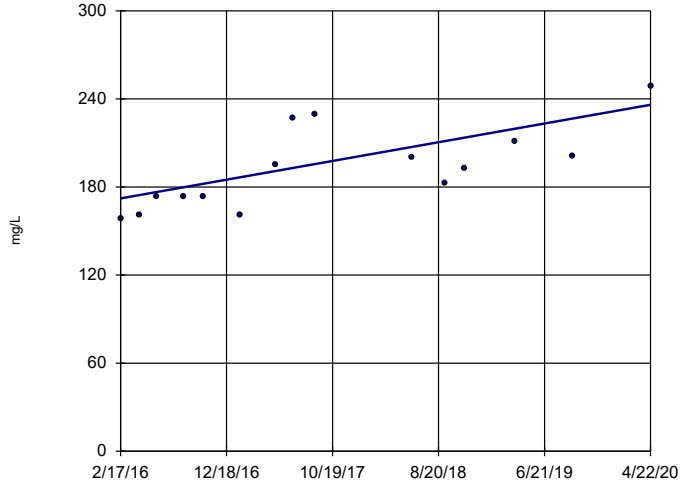
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-11



n = 15

Slope = 15.24 units per year.

Mann-Kendall statistic = 65 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

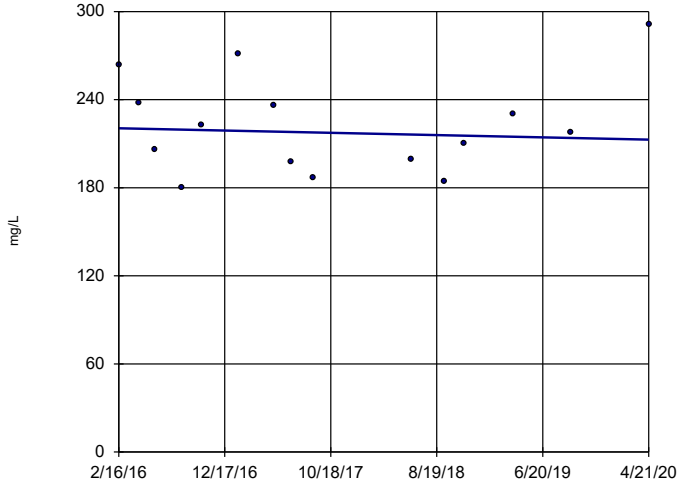
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 15

Slope = -1.867 units per year.

Mann-Kendall statistic = -3 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

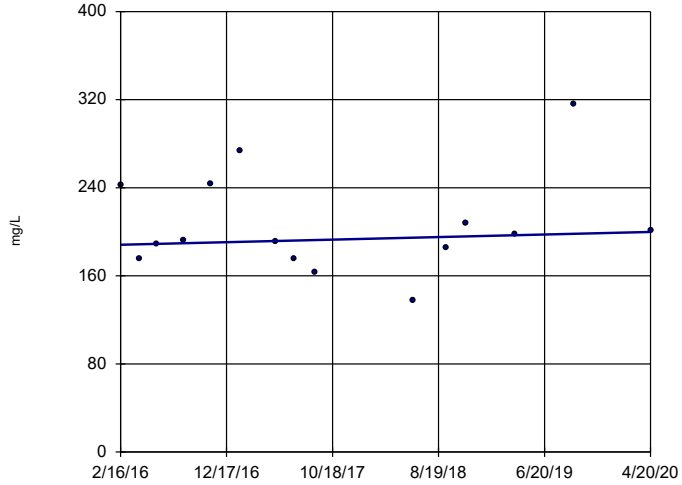
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 15

Slope = 2.801 units per year.

Mann-Kendall statistic = 8 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

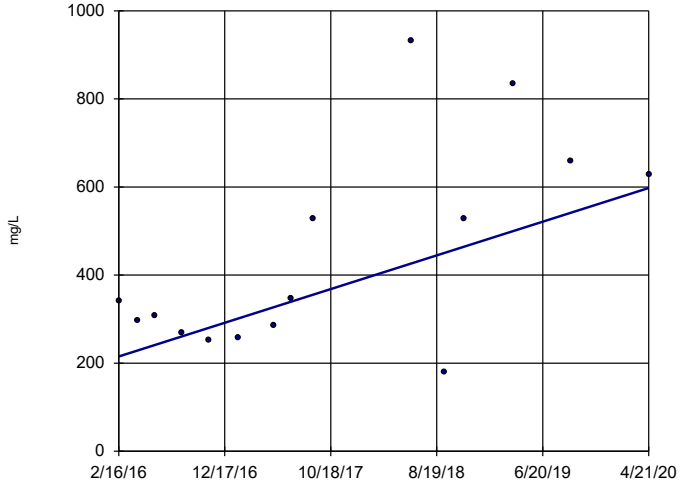
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 15

Slope = 91.54 units per year.

Mann-Kendall statistic = 38 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

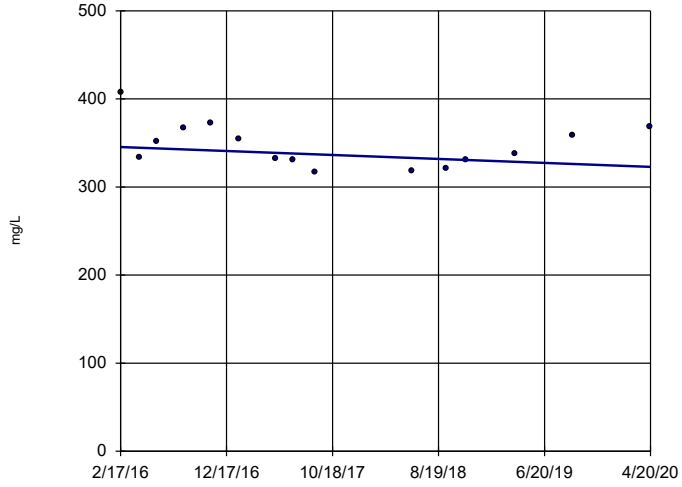
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 15

Slope = -5.38 units per year.

Mann-Kendall statistic = -18 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

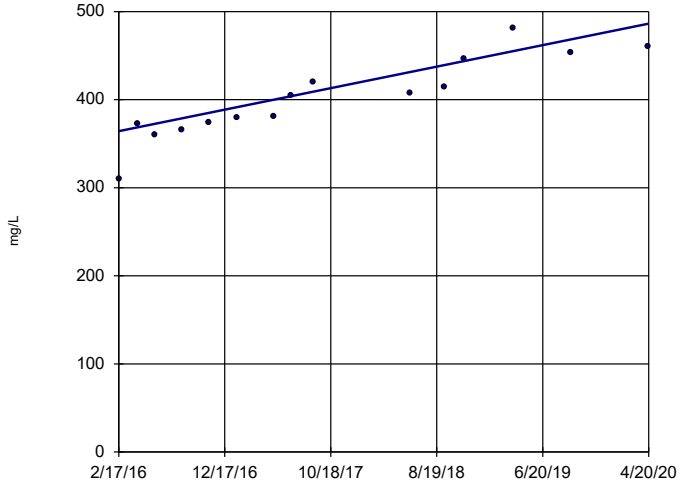
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 15

Slope = 29.22 units per year.

Mann-Kendall statistic = 93 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

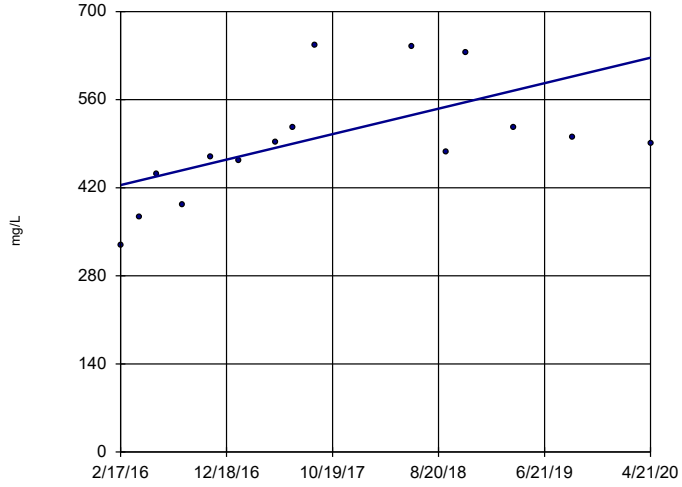
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 15

Slope = 48.46 units per year.

Mann-Kendall statistic = 56 critical = 53

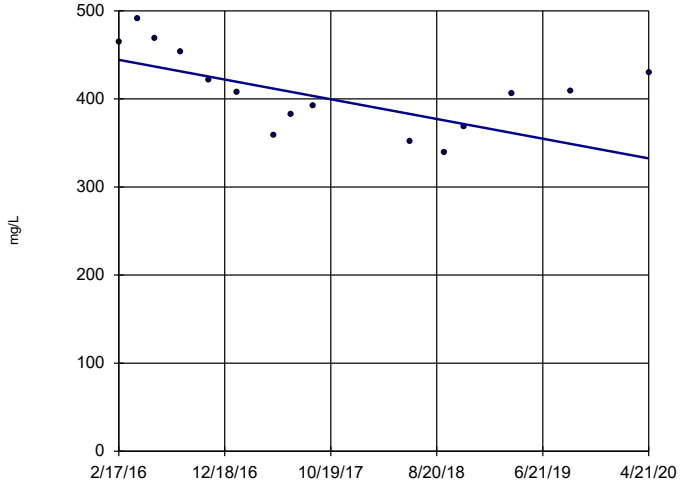
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-18



n = 15

Slope = -26.79 units per year.

Mann-Kendall statistic = -41
critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

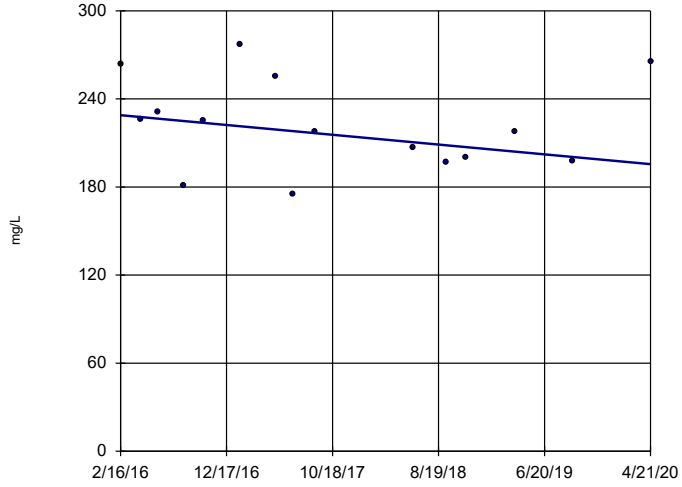
Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.5.15 Sanitas software licensed to Southern Company. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 15

Slope = -7.96 units per year.

Mann-Kendall statistic = -22
critical = -53

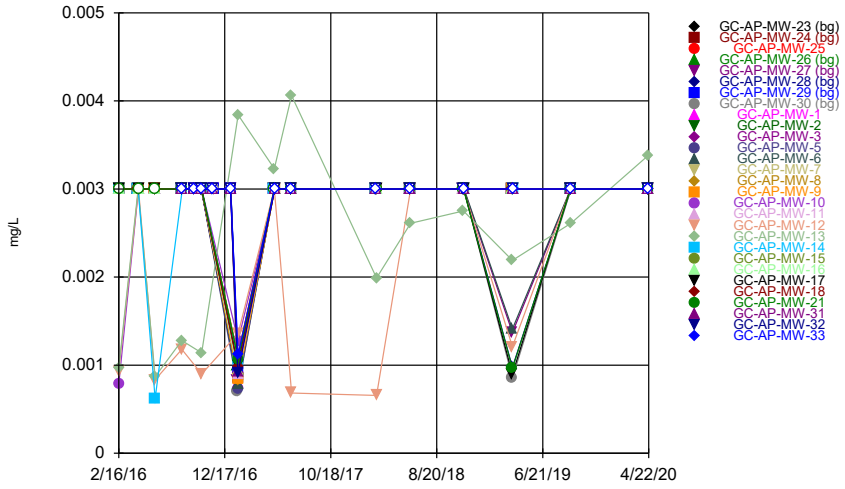
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 6/4/2020 3:32 PM View: Trend Test

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

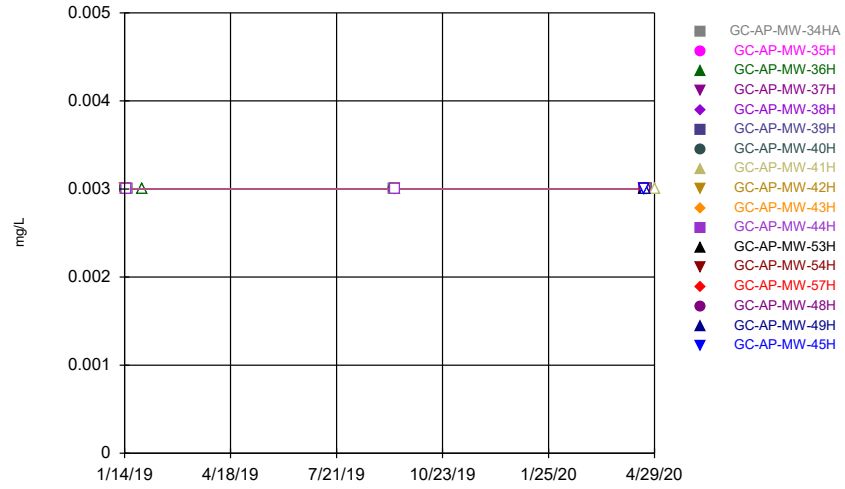
Time Series



Constituent: Antimony Analysis Run 7/13/2020 3:32 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

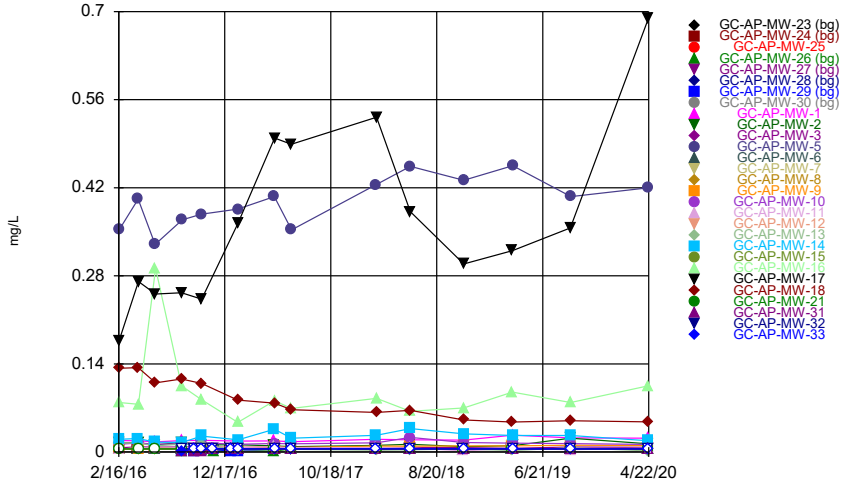
Time Series



Constituent: Antimony Analysis Run 7/13/2020 3:32 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

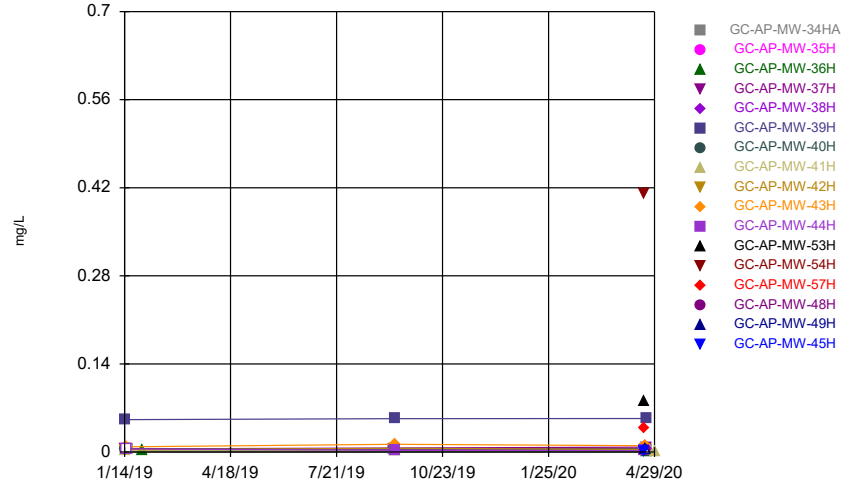
Time Series



Constituent: Arsenic Analysis Run 7/13/2020 3:33 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 7/13/2020 3:33 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/13/2020 3:38 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.003	<0.003	<0.003						<0.003
4/12/2016	<0.003	<0.003	<0.003						
4/13/2016									<0.003
5/31/2016									
6/1/2016	<0.003	<0.003	<0.003						<0.003
8/15/2016									<0.003
8/16/2016	<0.003	<0.003					<0.003	<0.003	
8/17/2016			<0.003	<0.003	<0.003	<0.003			
9/19/2016									
9/20/2016				<0.003	<0.003	<0.003	<0.003	<0.003	
10/11/2016	<0.003	<0.003	<0.003				<0.003	<0.003	<0.003
10/12/2016				<0.003	<0.003	<0.003			
11/14/2016									
11/15/2016				<0.003	<0.003	<0.003	<0.003	<0.003	
1/3/2017									
1/4/2017				<0.003	<0.003	<0.003	<0.003	<0.003	
1/23/2017				0.001 (J)	0.00083 (J)			0.000701 (J)	
1/24/2017	0.000886 (J)	0.000858 (J)	0.00111 (J)			0.00096 (J)			0.000799 (J)
1/25/2017									
1/26/2017							0.00092 (J)		
5/9/2017	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/10/2017		<0.003							
6/27/2017	<0.003			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/28/2017		<0.003	<0.003						
2/27/2018	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/28/2018			<0.003						
6/4/2018									<0.003
6/5/2018	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	
6/6/2018			<0.003						
11/5/2018									
11/6/2018			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/7/2018	<0.003	<0.003							
3/26/2019	<0.003	<0.003		<0.003	0.00137 (J)	0.000975 (J)	<0.003	0.000854 (J)	
3/27/2019			<0.003						<0.003
9/9/2019									
9/10/2019	<0.003	<0.003	<0.003						<0.003
9/11/2019				<0.003	<0.003	<0.003	<0.003	<0.003	
4/20/2020									
4/21/2020	<0.003			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/22/2020		<0.003	<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.003	<0.003	0.000786 (J)	
2/17/2016	<0.003	<0.003	<0.003	<0.003	<0.003				<0.003
4/12/2016		<0.003	<0.003	<0.003					
4/13/2016	<0.003				<0.003	<0.003	<0.003	<0.003	<0.003
5/31/2016			<0.003	<0.003	<0.003			<0.003	<0.003
6/1/2016	<0.003	<0.003				<0.003	<0.003		
8/15/2016	<0.003	<0.003							
8/16/2016								<0.003	<0.003
8/17/2016			<0.003	<0.003	<0.003	<0.003	<0.003		
9/19/2016									
9/20/2016									
10/11/2016	<0.003	<0.003	<0.003	<0.003					
10/12/2016					<0.003	<0.003	<0.003	<0.003	<0.003
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	0.00084 (J)	0.000906 (J)	0.000728 (J)	0.000792 (J)					
1/25/2017					0.000839 (J)	0.000833 (J)	0.000847 (J)	0.00128 (J)	0.000896 (J)
1/26/2017									
5/9/2017	<0.003	<0.003	<0.003						<0.003
5/10/2017				<0.003	<0.003	<0.003	<0.003	<0.003	
6/27/2017									
6/28/2017	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/27/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/28/2018									
6/4/2018	<0.003	<0.003							
6/5/2018			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2018									
11/5/2018									<0.003
11/6/2018	<0.003	<0.003	<0.003						
11/7/2018				<0.003	<0.003	<0.003	<0.003	<0.003	
3/26/2019				0.00141 (J)	<0.003	<0.003	<0.003		
3/27/2019	<0.003	<0.003	<0.003					<0.003	<0.003
9/9/2019	<0.003	<0.003							
9/10/2019				<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2019			<0.003						
4/20/2020		<0.003							
4/21/2020	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		
4/22/2020								<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	0.000933 (J)	0.000972 (J)	<0.003					<0.003	
2/17/2016				<0.003	<0.003	<0.003	<0.003		
4/12/2016		<0.003	<0.003	<0.003			<0.003		
4/13/2016	<0.003				<0.003	<0.003		<0.003	
5/31/2016	0.000834 (J)	0.000869 (J)	0.00062 (J)	<0.003					
6/1/2016					<0.003	<0.003	<0.003	<0.003	
8/15/2016					<0.003	<0.003	<0.003		
8/16/2016	0.00118 (J)	0.00128 (J)		<0.003				<0.003	<0.003
8/17/2016			<0.003						
9/19/2016									<0.003
9/20/2016									
10/11/2016				<0.003					<0.003
10/12/2016	0.000899 (J)	0.00114 (J)	<0.003		<0.003	<0.003	<0.003	<0.003	
11/14/2016									<0.003
11/15/2016									
1/3/2017									<0.003
1/4/2017									
1/23/2017									
1/24/2017				0.00111 (J)	0.000935 (J)	0.000997 (J)	0.000984 (J)		0.000928 (J)
1/25/2017	0.00136 (J)	0.00384	0.00106 (J)					0.00107 (J)	
1/26/2017									
5/9/2017	<0.003	0.00323	<0.003					<0.003	
5/10/2017				<0.003	<0.003	<0.003	<0.003		<0.003
6/27/2017				<0.003	<0.003	<0.003	<0.003		<0.003
6/28/2017	0.000683 (J)	0.00406	<0.003					<0.003	
2/27/2018			<0.003						<0.003
2/28/2018	0.000656 (J)	0.00199 (J)		<0.003	<0.003	<0.003	<0.003	<0.003	
6/4/2018									
6/5/2018				<0.003	<0.003	<0.003	<0.003		<0.003
6/6/2018	<0.003	0.00261 (J)	<0.003					<0.003	
11/5/2018	<0.003	0.00275 (J)						<0.003	
11/6/2018				<0.003	<0.003	<0.003	<0.003		<0.003
11/7/2018			<0.003						
3/26/2019	0.00121 (J)	0.00219 (J)		<0.003	<0.003	0.000897 (J)	<0.003	0.000964 (J)	
3/27/2019			<0.003						<0.003
9/9/2019						<0.003	<0.003		
9/10/2019	<0.003		<0.003	<0.003	<0.003			<0.003	
9/11/2019		0.00261 (J)							<0.003
4/20/2020		0.00338		<0.003	<0.003				
4/21/2020	<0.003		<0.003			<0.003	<0.003	<0.003	
4/22/2020									<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.003	<0.003
8/17/2016		
9/19/2016	<0.003	<0.003
9/20/2016		
10/11/2016	<0.003	<0.003
10/12/2016		
11/14/2016	<0.003	<0.003
11/15/2016		
1/3/2017	<0.003	<0.003
1/4/2017		
1/23/2017		
1/24/2017	0.00091 (J)	
1/25/2017		0.00112 (J)
1/26/2017		
5/9/2017		
5/10/2017	<0.003	<0.003
6/27/2017	<0.003	<0.003
6/28/2017		
2/27/2018	<0.003	<0.003
2/28/2018		
6/4/2018		
6/5/2018	<0.003	<0.003
6/6/2018		
11/5/2018	<0.003	
11/6/2018		<0.003
11/7/2018		
3/26/2019		
3/27/2019	<0.003	<0.003
9/9/2019		
9/10/2019		
9/11/2019	<0.003	<0.003
4/20/2020		
4/21/2020		
4/22/2020	<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					<0.003				
1/15/2019				<0.003		<0.003	<0.003	<0.003	<0.003
1/16/2019		<0.003							
1/17/2019	<0.003								
1/30/2019			<0.003						
9/10/2019	<0.003						<0.003		
9/11/2019		<0.003	<0.003		<0.003	<0.003		<0.003	<0.003
4/20/2020							<0.003		
4/21/2020		<0.003							<0.003
4/22/2020	<0.003		<0.003	<0.003	<0.003	<0.003			
4/29/2020								<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	<0.003	<0.003						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	<0.003	<0.003						
4/20/2020		<0.003	<0.003	<0.003	<0.003			<0.003
4/21/2020	<0.003					<0.003	<0.003	
4/22/2020								
4/29/2020								

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.005	<0.005	<0.005						0.0181
4/12/2016	<0.005	<0.005	<0.005						
4/13/2016									0.0178
5/31/2016									
6/1/2016	<0.005	<0.005	<0.005						0.016
8/15/2016									0.0182
8/16/2016	<0.005	<0.005					0.00199 (J)	<0.005	
8/17/2016			<0.005	0.0017 (J)	<0.005	<0.005			
9/19/2016									
9/20/2016				0.00283 (J)	<0.005	<0.005	0.00155 (J)	<0.005	
10/11/2016	<0.005	<0.005	<0.005				0.00231 (J)	<0.005	0.0186
10/12/2016				0.00218 (J)	<0.005	<0.005			
11/14/2016									
11/15/2016				0.00124 (J)	<0.005	<0.005	0.0044 (J)	<0.005	
1/3/2017									
1/4/2017				0.0028 (J)	<0.005	<0.005	0.00123 (J)	<0.005	
1/23/2017				0.00257 (J)	<0.005			<0.005	
1/24/2017	<0.005	<0.005	<0.005			<0.005			0.0173
1/25/2017									
1/26/2017							0.00169 (J)		
5/9/2017	<0.005		<0.005	0.00138 (J)	<0.005	<0.005	<0.005	<0.005	0.0176
5/10/2017		<0.005							
6/27/2017	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	0.0165
6/28/2017		<0.005	<0.005						
2/27/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	0.0201
2/28/2018			<0.005						
6/4/2018									0.0195
6/5/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
6/6/2018			<0.005						
11/5/2018									
11/6/2018			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0189
11/7/2018	<0.005	<0.005							
3/26/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
3/27/2019			<0.005						0.0267
9/9/2019									
9/10/2019	<0.005	<0.005	<0.005						0.0226
9/11/2019				<0.005	<0.005	<0.005	<0.005	<0.005	
4/20/2020									
4/21/2020	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	0.0219
4/22/2020		<0.005	<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.005	0.00507	0.0123	
2/17/2016	0.0142	0.00668	0.353	<0.005	<0.005				0.00437 (J)
4/12/2016		0.00827	0.402	<0.005					
4/13/2016	0.0145				<0.005	<0.005	0.00556	0.0143	0.00695
5/31/2016			0.33	<0.005	<0.005			0.0125	0.0063
6/1/2016	0.0112	0.00768				<0.005	0.00625		
8/15/2016	0.0154	0.00798							
8/16/2016								0.0128	0.0068
8/17/2016			0.369	<0.005	<0.005	<0.005	0.00648		
9/19/2016									
9/20/2016									
10/11/2016	0.0113	0.008	0.378	<0.005					
10/12/2016					<0.005	<0.005	0.00772	0.0145	0.00709
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	0.0115	0.00722	0.386	<0.005					
1/25/2017					<0.005	<0.005	0.00728	0.0122	0.00718
1/26/2017									
5/9/2017	0.00989	0.00766	0.406						0.00819
5/10/2017				<0.005	<0.005	<0.005	0.00818	0.0135	
6/27/2017									
6/28/2017	0.00848	0.00745	0.353	<0.005	<0.005	<0.005	0.00718	0.0131	0.00664
2/27/2018	0.0106	0.00699	0.425	<0.005	<0.005	<0.005	0.00946	0.0146	0.00733
2/28/2018									
6/4/2018	0.0124	0.00731							
6/5/2018			0.454	<0.005	<0.005	<0.005	0.00921	0.0233	0.00637
6/6/2018									
11/5/2018									0.00195 (J)
11/6/2018	0.0085	0.00685	0.432						
11/7/2018				<0.005	<0.005	<0.005	0.0098	0.0152	
3/26/2019				<0.005	<0.005	<0.005	0.00969		
3/27/2019	0.0101	0.00596	0.455					0.014	0.00573
9/9/2019	0.022	0.00806							
9/10/2019				<0.005	<0.005	<0.005	0.0108	0.0132	0.00378 (J)
9/11/2019			0.406						
4/20/2020		0.00751							
4/21/2020	0.013		0.42	<0.005	<0.005	<0.005	0.0102		
4/22/2020								0.0121	0.00616

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	<0.005	0.0141	0.0202					<0.005	
2/17/2016				<0.005	0.0788	0.177	0.133		
4/12/2016		0.0144	0.0214	<0.005			0.134		
4/13/2016	<0.005				0.0759	0.271		<0.005	
5/31/2016	<0.005	0.00984	0.0156	<0.005					
6/1/2016					0.292	0.251	0.11	<0.005	
8/15/2016					0.105	0.253	0.116		
8/16/2016	<0.005	0.0126		<0.005				<0.005	0.00185 (J)
8/17/2016			0.0153						
9/19/2016									0.00121 (J)
9/20/2016									
10/11/2016				<0.005					0.00111 (J)
10/12/2016	<0.005	0.0117	0.0254		0.0831	0.243	0.109	<0.005	
11/14/2016									<0.005
11/15/2016									
1/3/2017									<0.005
1/4/2017									
1/23/2017									
1/24/2017				<0.005	0.0472	0.363	0.0825		<0.005
1/25/2017	<0.005	0.00316 (J)	0.0194					<0.005	
1/26/2017									
5/9/2017	<0.005	0.00393 (J)	0.0361					<0.005	
5/10/2017				<0.005	0.0814	0.499	0.0776		<0.005
6/27/2017				<0.005	0.0693	0.489	0.0672		<0.005
6/28/2017	<0.005	0.00406 (J)	0.022					<0.005	
2/27/2018			0.0265						<0.005
2/28/2018	<0.005	0.00278 (J)		<0.005	0.0852	0.532	0.063	<0.005	
6/4/2018									
6/5/2018				<0.005	0.0648	0.382	0.0661		<0.005
6/6/2018	<0.005	0.00352 (J)	0.0372					<0.005	
11/5/2018	<0.005	0.00497 (J)						<0.005	
11/6/2018				<0.005	0.0701	0.299	0.0509		<0.005
11/7/2018			0.0289						
3/26/2019	<0.005	0.00251 (J)		<0.005	0.0952	0.32	0.0477	<0.005	
3/27/2019			0.0264						<0.005
9/9/2019						0.356	0.0498		
9/10/2019	<0.005		0.0263	<0.005	0.0786			<0.005	
9/11/2019		0.00664							<0.005
4/20/2020		0.00181 (J)		<0.005	0.105				
4/21/2020	<0.005		0.0178			0.689	0.0478	<0.005	
4/22/2020									<0.005

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Constituent: Arsenic (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.005	0.00122 (J)
8/17/2016		
9/19/2016	<0.005	<0.005
9/20/2016		
10/11/2016	<0.005	<0.005
10/12/2016		
11/14/2016	<0.005	<0.005
11/15/2016		
1/3/2017	<0.005	<0.005
1/4/2017		
1/23/2017		
1/24/2017	<0.005	
1/25/2017		<0.005
1/26/2017		
5/9/2017		
5/10/2017	<0.005	<0.005
6/27/2017	<0.005	<0.005
6/28/2017		
2/27/2018	<0.005	<0.005
2/28/2018		
6/4/2018		
6/5/2018	<0.005	<0.005
6/6/2018		
11/5/2018	<0.005	
11/6/2018		<0.005
11/7/2018		
3/26/2019		
3/27/2019	<0.005	<0.005
9/9/2019		
9/10/2019		
9/11/2019	<0.005	<0.005
4/20/2020		
4/21/2020		
4/22/2020	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					<0.005				
1/15/2019				<0.005		0.0514	<0.005	0.002 (J)	0.00372 (J)
1/16/2019		<0.005							
1/17/2019	<0.005								
1/30/2019			0.0034 (J)						
9/10/2019	<0.005						<0.005		
9/11/2019		<0.005	0.00222 (J)		<0.005	0.053		0.00208 (J)	0.00583
4/20/2020							<0.005		
4/21/2020		<0.005							0.00417 (J)
4/22/2020	<0.005		0.00168 (J)	0.00768	<0.005	0.0533			
4/29/2020								0.00182 (J)	

Time Series

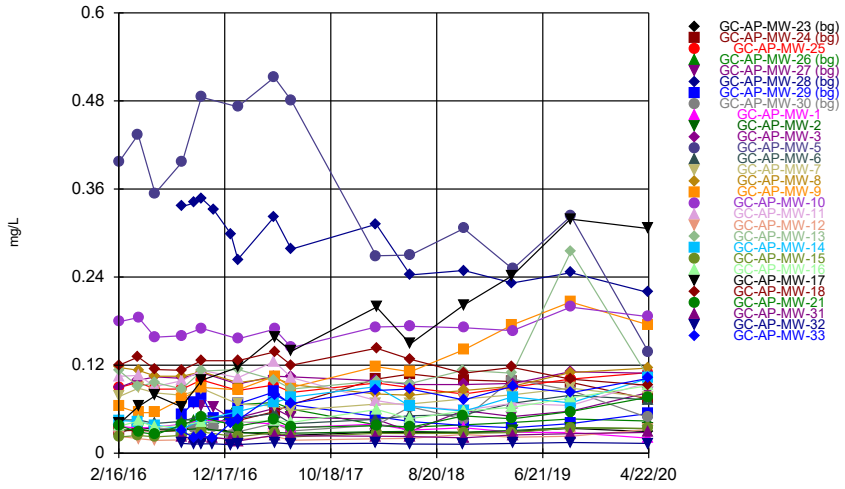
Constituent: Arsenic (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	0.00816	<0.005						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	0.0124	0.00269 (J)						
4/20/2020		0.00215 (J)	0.0806	0.41	0.0375			0.00153 (J)
4/21/2020	0.0101					0.0021 (J)	<0.005	
4/22/2020								
4/29/2020								

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Time Series

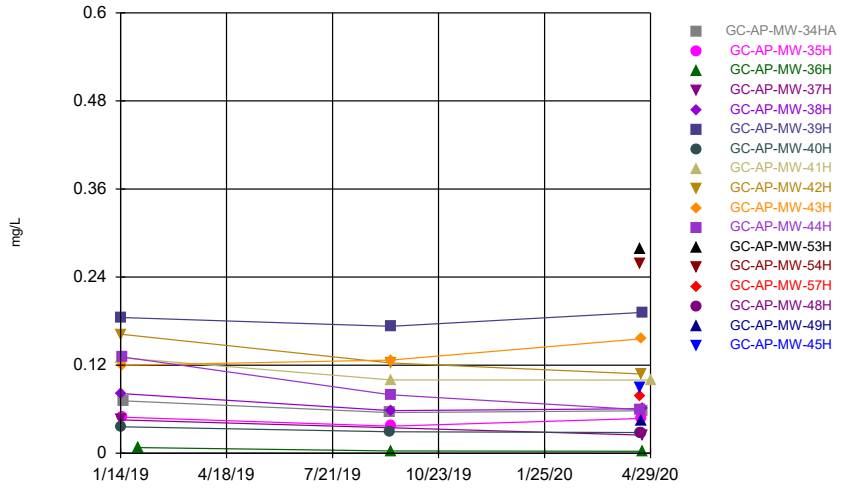


Constituent: Barium Analysis Run 7/13/2020 3:33 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Time Series

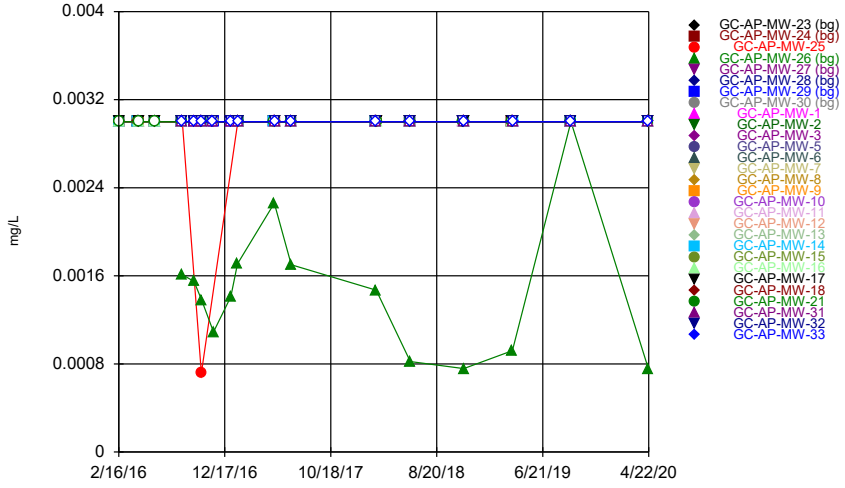


Constituent: Barium Analysis Run 7/13/2020 3:33 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series

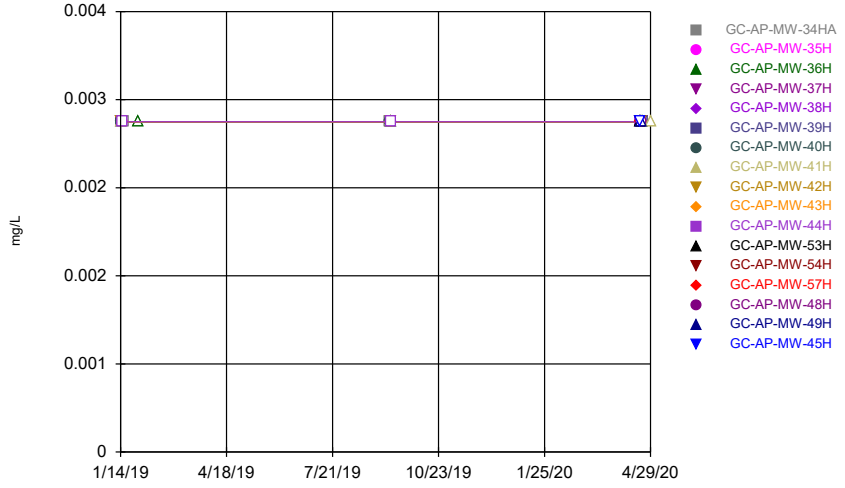


Constituent: Beryllium Analysis Run 7/13/2020 3:33 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 7/13/2020 3:33 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Barium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	0.0285	0.0305	0.0895						0.0364
4/12/2016	0.035	0.0312	0.0966						
4/13/2016									0.0344
5/31/2016									
6/1/2016	0.0328	0.0298	0.0872						0.0353
8/15/2016									0.0395
8/16/2016	0.033	0.0308					0.0527	0.0376	
8/17/2016			0.0875	0.0476	0.0803	0.336			
9/19/2016									
9/20/2016				0.0436	0.0679	0.341	0.0698	0.0348	
10/11/2016	0.0352	0.042	0.1				0.0799	0.0396	0.0455
10/12/2016				0.0397	0.0644	0.347			
11/14/2016									
11/15/2016				0.0369	0.0628	0.332	0.0479	0.0359	
1/3/2017									
1/4/2017				0.0518	0.0477	0.299	0.0513	0.0238	
1/23/2017				0.0662	0.0482			0.029	
1/24/2017	0.0286	0.0446	0.0856			0.264			0.0428
1/25/2017									
1/26/2017							0.0674		
5/9/2017	0.0257		0.093	0.0691	0.0611	0.322	0.0836	0.0409	0.0399
5/10/2017		0.0568							
6/27/2017	0.0246			0.0603	0.0492	0.278	0.0661	0.0303	0.0348
6/28/2017		0.0663	0.0829						
2/27/2018	0.0287	0.101		0.0386	0.0463	0.312	0.05	0.0383	0.0398
2/28/2018			0.0958						
6/4/2018									0.0314
6/5/2018	0.0279	0.108		0.0356	0.0298	0.243	0.0433	0.0633	
6/6/2018			0.0892						
11/5/2018									
11/6/2018			0.0807	0.0387	0.0582	0.249	0.0379	0.0463	0.0348
11/7/2018	0.0281	0.1							
3/26/2019	0.0295	0.0978		0.0419	0.0499	0.232	0.0348	0.101	
3/27/2019			0.0901						0.0286
9/9/2019									
9/10/2019	0.0338	0.0967	0.101						0.0283
9/11/2019				0.0468	0.0574	0.246	0.0404	0.0855	
4/20/2020									
4/21/2020	0.0296			0.0439	0.0827	0.219	0.0542	0.0485	0.0206
4/22/2020		0.0738	0.11						

Time Series

Constituent: Barium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						0.117	0.0637	0.179	
2/17/2016	0.0311	0.0896	0.397	0.0455	0.0772				0.105
4/12/2016		0.0994	0.434	0.0455					
4/13/2016	0.0334				0.0886	0.113	0.0552	0.185	0.106
5/31/2016			0.354	0.0407	0.0823			0.158	0.0907
6/1/2016	0.029	0.104				0.105	0.0555		
8/15/2016	0.0317	0.102							
8/16/2016								0.16	0.0989
8/17/2016			0.397	0.0434	0.0789	0.105	0.0745		
9/19/2016									
9/20/2016									
10/11/2016	0.0339	0.11	0.485	0.0514					
10/12/2016					0.0883	0.111	0.0897	0.17	0.113
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	0.0276	0.0942	0.472	0.0476					
1/25/2017					0.067	0.0963	0.0864	0.156	0.103
1/26/2017									
5/9/2017	0.0285	0.105	0.512						0.125
5/10/2017				0.0543	0.0644	0.103	0.105	0.169	
6/27/2017									
6/28/2017	0.0273	0.104	0.48	0.0402	0.0582	0.0935	0.0897	0.144	0.103
2/27/2018	0.0292	0.0989	0.269	0.0463	0.0669	0.0808	0.118	0.172	0.0718
2/28/2018									
6/4/2018	0.0298	0.0936							
6/5/2018			0.27	0.051	0.0672	0.0789	0.111	0.173	0.0643
6/6/2018									
11/5/2018									0.0588
11/6/2018	0.0286	0.0936	0.306						
11/7/2018				0.0527	0.0739	0.0855	0.141	0.171	
3/26/2019				0.0682	0.0796	0.0911	0.175		
3/27/2019	0.0311	0.0951	0.251					0.167	0.0678
9/9/2019	0.035	0.111							
9/10/2019				0.0789	0.0887	0.11	0.206	0.199	0.0651
9/11/2019			0.323						
4/20/2020		0.109							
4/21/2020	0.0335		0.138	0.0728	0.0762	0.116	0.175		
4/22/2020								0.186	0.0967

Time Series

Constituent: Barium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	0.0231	0.113	0.0447					0.0379	
2/17/2016				0.022	0.0368	0.0402	0.12		
4/12/2016		0.0912	0.043	0.0242			0.131		
4/13/2016	0.02				0.044	0.0637		0.0291	
5/31/2016	0.0175	0.0963	0.0383	0.0224					
6/1/2016					0.0357	0.0786	0.114	0.0254	
8/15/2016					0.0377	0.0634	0.113		
8/16/2016	0.0182	0.0878		0.0243				0.0385	0.0226
8/17/2016			0.0332						
9/19/2016									0.0202
9/20/2016									
10/11/2016				0.0291					0.0219
10/12/2016	0.0221	0.112	0.0454		0.0431	0.0995	0.126	0.0486	
11/14/2016									0.0215
11/15/2016									
1/3/2017									0.019
1/4/2017									
1/23/2017									
1/24/2017				0.0223	0.0418	0.117	0.126		0.0167
1/25/2017	0.0187	0.114	0.0567					0.0371	
1/26/2017									
5/9/2017	0.0232	0.1	0.069					0.0454	
5/10/2017				0.0281	0.0449	0.158	0.138		0.0246
6/27/2017				0.0223	0.042	0.139	0.12		0.0238
6/28/2017	0.0178	0.0874	0.0764					0.0352	
2/27/2018			0.0908						0.0231
2/28/2018	0.0197	0.0984		0.0271	0.0595	0.199	0.143	0.0376	
6/4/2018									
6/5/2018				0.0269	0.0471	0.149	0.128		0.0228
6/6/2018	0.0204	0.0951	0.064					0.0355	
11/5/2018	0.0255	0.113						0.0509	
11/6/2018				0.0271	0.0574	0.202	0.109		0.0211
11/7/2018			0.0575						
3/26/2019	0.0218	0.109		0.0282	0.0626	0.242	0.117	0.047	
3/27/2019			0.0768						0.025
9/9/2019						0.319	0.101		
9/10/2019	0.0233		0.0685	0.0348	0.0754			0.0568	
9/11/2019		0.275							0.0267
4/20/2020		0.104		0.0338	0.0921				
4/21/2020	0.0325		0.102			0.306	0.0926	0.0763	
4/22/2020									0.0285

Time Series

Constituent: Barium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	0.0134	0.0304
8/17/2016		
9/19/2016	0.0125	0.0215
9/20/2016		
10/11/2016	0.0128	0.0236
10/12/2016		
11/14/2016	0.0129	0.0206
11/15/2016		
1/3/2017	0.0116	0.0409
1/4/2017		
1/23/2017		
1/24/2017	0.0118	
1/25/2017		0.0455
1/26/2017		
5/9/2017		
5/10/2017	0.0142	0.0798
6/27/2017	0.0127	0.0679
6/28/2017		
2/27/2018	0.0135	0.0856
2/28/2018		
6/4/2018		
6/5/2018	0.0126	0.0875
6/6/2018		
11/5/2018	0.0123	
11/6/2018		0.0726
11/7/2018		
3/26/2019		
3/27/2019	0.0134	0.0912
9/9/2019		
9/10/2019		
9/11/2019	0.0147	0.0824
4/20/2020		
4/21/2020		
4/22/2020	0.0133	0.102

Time Series

Constituent: Barium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					0.0814				
1/15/2019				0.0454		0.185	0.0361	0.13	0.162
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	0.123
4/20/2020							0.0282		
4/21/2020		0.0473							0.108
4/22/2020	0.0578		0.0027 (J)	0.0248	0.0607	0.192			
4/29/2020								0.0998	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	0.12	0.131						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	0.127	0.0797						
4/20/2020		0.0594	0.278	0.259	0.0771			0.0898
4/21/2020	0.156					0.028	0.0437	
4/22/2020								
4/29/2020								

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.003	<0.003	<0.003						<0.003
4/12/2016	<0.003	<0.003	<0.003						
4/13/2016									<0.003
5/31/2016									
6/1/2016	<0.003	<0.003	<0.003						<0.003
8/15/2016									<0.003
8/16/2016	<0.003	<0.003					<0.003	<0.003	
8/17/2016			<0.003	0.00161 (J)	<0.003	<0.003			
9/19/2016									
9/20/2016				0.00155 (J)	<0.003	<0.003	<0.003	<0.003	
10/11/2016	<0.003	<0.003	0.000715 (J)				<0.003	<0.003	<0.003
10/12/2016				0.00138 (J)	<0.003	<0.003			
11/14/2016									
11/15/2016				0.00109 (J)	<0.003	<0.003	<0.003	<0.003	
1/3/2017									
1/4/2017				0.00141 (J)	<0.003	<0.003	<0.003	<0.003	
1/23/2017				0.00171 (J)	<0.003			<0.003	
1/24/2017	<0.003	<0.003	<0.003			<0.003			<0.003
1/25/2017									
1/26/2017							<0.003		
5/9/2017	<0.003		<0.003	0.00226 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
5/10/2017		<0.003							
6/27/2017	<0.003			0.0017 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
6/28/2017		<0.003	<0.003						
2/27/2018	<0.003	<0.003		0.00147 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
2/28/2018			<0.003						
6/4/2018									<0.003
6/5/2018	<0.003	<0.003		0.000821 (J)	<0.003	<0.003	<0.003	<0.003	
6/6/2018			<0.003						
11/5/2018									
11/6/2018			<0.003	0.000757 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
11/7/2018	<0.003	<0.003							
3/26/2019	<0.003	<0.003		0.00092 (J)	<0.003	<0.003	<0.003	<0.003	
3/27/2019			<0.003						<0.003
9/9/2019									
9/10/2019	<0.003	<0.003	<0.003						<0.003
9/11/2019				<0.003	<0.003	<0.003	<0.003	<0.003	
4/20/2020									
4/21/2020	<0.003			0.000756 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
4/22/2020		<0.003	<0.003						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.003	<0.003	<0.003	
2/17/2016	<0.003	<0.003	<0.003	<0.003	<0.003				<0.003
4/12/2016		<0.003	<0.003	<0.003					
4/13/2016	<0.003				<0.003	<0.003	<0.003	<0.003	<0.003
5/31/2016			<0.003	<0.003	<0.003			<0.003	<0.003
6/1/2016	<0.003	<0.003				<0.003	<0.003		
8/15/2016	<0.003	<0.003							
8/16/2016								<0.003	<0.003
8/17/2016			<0.003	<0.003	<0.003	<0.003	<0.003		
9/19/2016									
9/20/2016									
10/11/2016	<0.003	<0.003	<0.003	<0.003					
10/12/2016					<0.003	<0.003	<0.003	<0.003	<0.003
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<0.003	<0.003	<0.003	<0.003					
1/25/2017					<0.003	<0.003	<0.003	<0.003	<0.003
1/26/2017									
5/9/2017	<0.003	<0.003	<0.003						<0.003
5/10/2017				<0.003	<0.003	<0.003	<0.003	<0.003	
6/27/2017									
6/28/2017	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/27/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/28/2018									
6/4/2018	<0.003	<0.003							
6/5/2018			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2018									
11/5/2018									<0.003
11/6/2018	<0.003	<0.003	<0.003						
11/7/2018				<0.003	<0.003	<0.003	<0.003	<0.003	
3/26/2019				<0.003	<0.003	<0.003	<0.003		
3/27/2019	<0.003	<0.003	<0.003					<0.003	<0.003
9/9/2019	<0.003	<0.003							
9/10/2019				<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2019			<0.003						
4/20/2020		<0.003							
4/21/2020	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		
4/22/2020								<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	<0.003	<0.003	<0.003					<0.003	
2/17/2016				<0.003	<0.003	<0.003	<0.003		
4/12/2016		<0.003	<0.003	<0.003			<0.003		
4/13/2016	<0.003				<0.003	<0.003		<0.003	
5/31/2016	<0.003	<0.003	<0.003	<0.003					
6/1/2016					<0.003	<0.003	<0.003	<0.003	
8/15/2016					<0.003	<0.003	<0.003		
8/16/2016	<0.003	<0.003		<0.003				<0.003	<0.003
8/17/2016			<0.003						
9/19/2016									<0.003
9/20/2016									
10/11/2016				<0.003					<0.003
10/12/2016	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	
11/14/2016									<0.003
11/15/2016									
1/3/2017									<0.003
1/4/2017									
1/23/2017									
1/24/2017				<0.003	<0.003	<0.003	<0.003		<0.003
1/25/2017	<0.003	<0.003	<0.003					<0.003	
1/26/2017									
5/9/2017	<0.003	<0.003	<0.003					<0.003	
5/10/2017				<0.003	<0.003	<0.003	<0.003		<0.003
6/27/2017				<0.003	<0.003	<0.003	<0.003		<0.003
6/28/2017	<0.003	<0.003	<0.003					<0.003	
2/27/2018			<0.003						<0.003
2/28/2018	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	
6/4/2018									
6/5/2018				<0.003	<0.003	<0.003	<0.003		<0.003
6/6/2018	<0.003	<0.003	<0.003					<0.003	
11/5/2018	<0.003	<0.003						<0.003	
11/6/2018				<0.003	<0.003	<0.003	<0.003		<0.003
11/7/2018			<0.003						
3/26/2019	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	
3/27/2019			<0.003						<0.003
9/9/2019						<0.003	<0.003		
9/10/2019	<0.003		<0.003	<0.003	<0.003			<0.003	
9/11/2019		<0.003							<0.003
4/20/2020		<0.003		<0.003	<0.003				
4/21/2020	<0.003		<0.003			<0.003	<0.003	<0.003	
4/22/2020									<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.003	<0.003
8/17/2016		
9/19/2016	<0.003	<0.003
9/20/2016		
10/11/2016	<0.003	<0.003
10/12/2016		
11/14/2016	<0.003	<0.003
11/15/2016		
1/3/2017	<0.003	<0.003
1/4/2017		
1/23/2017		
1/24/2017	<0.003	
1/25/2017		<0.003
1/26/2017		
5/9/2017		
5/10/2017	<0.003	<0.003
6/27/2017	<0.003	<0.003
6/28/2017		
2/27/2018	<0.003	<0.003
2/28/2018		
6/4/2018		
6/5/2018	<0.003	<0.003
6/6/2018		
11/5/2018	<0.003	
11/6/2018		<0.003
11/7/2018		
3/26/2019		
3/27/2019	<0.003	<0.003
9/9/2019		
9/10/2019		
9/11/2019	<0.003	<0.003
4/20/2020		
4/21/2020		
4/22/2020	<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					<0.003				
1/15/2019				<0.003		<0.003	<0.003	<0.003	<0.003
1/16/2019		<0.003							
1/17/2019	<0.003								
1/30/2019			<0.003						
9/10/2019	<0.003						<0.003		
9/11/2019		<0.003	<0.003		<0.003	<0.003		<0.003	<0.003
4/20/2020							<0.003		
4/21/2020		<0.003							<0.003
4/22/2020	<0.003		<0.003	<0.003	<0.003	<0.003			
4/29/2020								<0.003	

Time Series

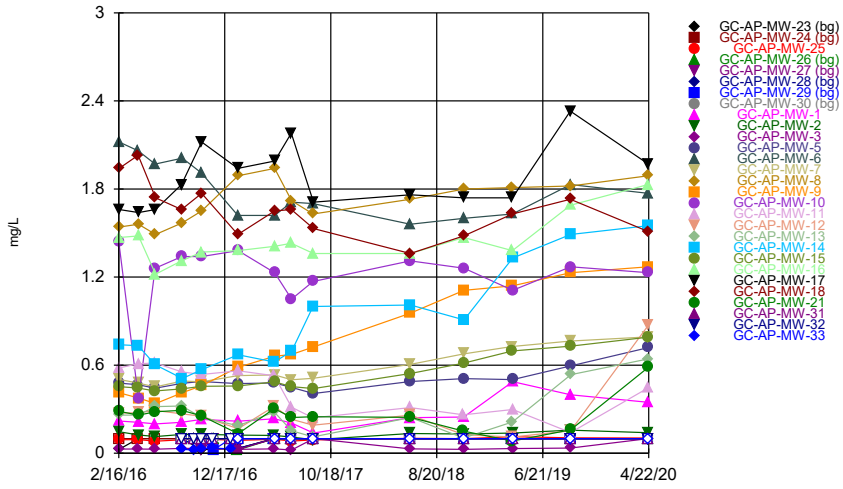
Constituent: Beryllium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	<0.003	<0.003						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	<0.003	<0.003						
4/20/2020		<0.003	<0.003	<0.003	<0.003			<0.003
4/21/2020	<0.003					<0.003	<0.003	
4/22/2020								
4/29/2020								

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

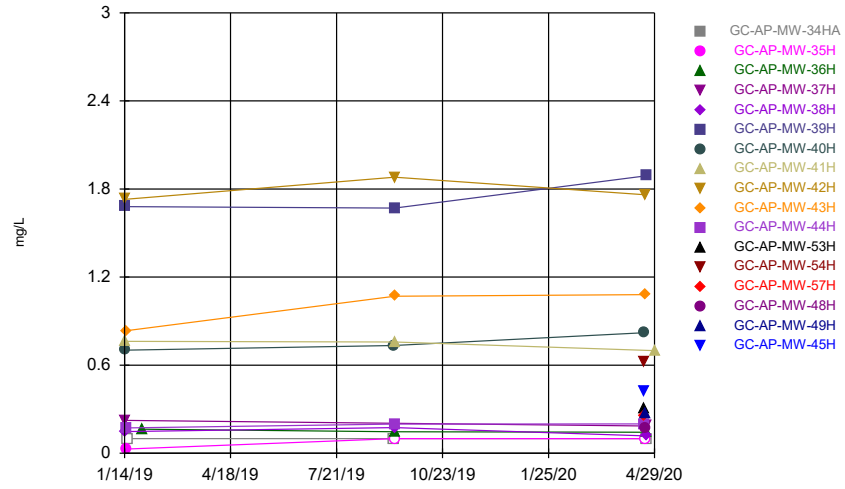
Time Series



Constituent: Boron Analysis Run 7/13/2020 3:33 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

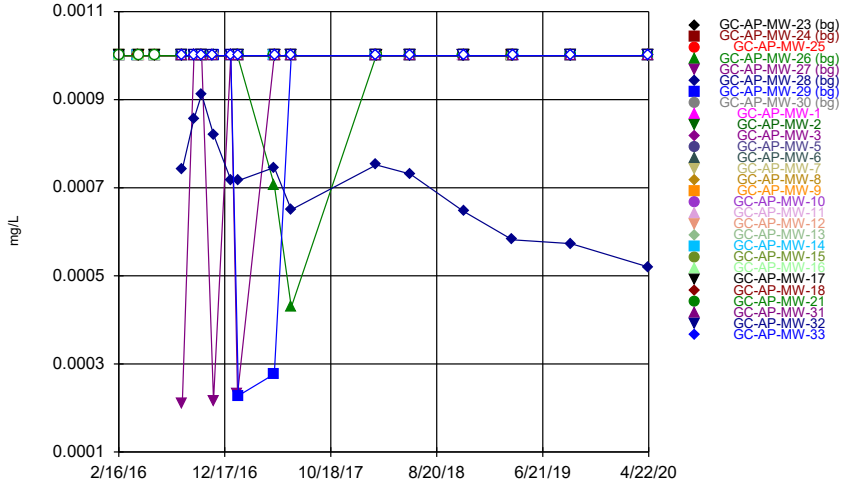
Time Series



Constituent: Boron Analysis Run 7/13/2020 3:33 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

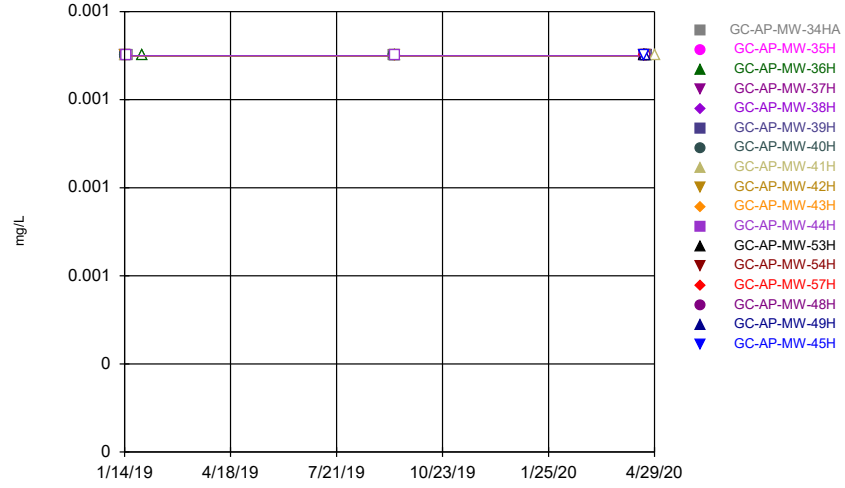
Time Series



Constituent: Cadmium Analysis Run 7/13/2020 3:34 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 7/13/2020 3:34 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	0.0271 (J)	<0.1	0.0922 (J)						0.219
4/12/2016	<0.1	<0.1	0.0935 (J)						
4/13/2016									0.211
5/31/2016									
6/1/2016	<0.1	<0.1	0.0826 (J)						0.2
8/15/2016									0.211
8/16/2016	<0.1	<0.1					<0.1	<0.1	
8/17/2016			0.092 (J)	<0.1	<0.1	<0.1			
9/19/2016									
9/20/2016				<0.1	<0.1	<0.1	<0.1	<0.1	
10/11/2016	0.024 (J)	<0.1	0.0976 (J)				<0.1	<0.1	0.23
10/12/2016				<0.1	0.02 (J)	<0.1			
11/14/2016									
11/15/2016				<0.1	<0.1	<0.1	0.0229 (J)	<0.1	
1/3/2017									
1/4/2017				<0.1	<0.1	<0.1	<0.1	<0.1	
1/23/2017				0.0217 (J)	0.0287 (J)			<0.1	
1/24/2017	0.0333 (J)	<0.1	0.0877 (J)			0.0331 (J)			0.218
1/25/2017									
1/26/2017							<0.1		
5/9/2017	<0.1		0.0953 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	0.235
5/10/2017		<0.1							
6/27/2017	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	0.206
6/28/2017		<0.1	0.0835 (J)						
8/29/2017	<0.1	<0.1	0.0914 (J)	<0.1	<0.1				
8/30/2017						<0.1	<0.1	<0.1	0.138
6/4/2018									0.242
6/5/2018	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	
6/6/2018			0.102						
11/5/2018									
11/6/2018			0.0995 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	0.247
11/7/2018	<0.1	<0.1							
3/26/2019	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	
3/27/2019			0.113						0.488
9/9/2019									
9/10/2019	<0.1	<0.1	0.105						0.398
9/11/2019				<0.1	<0.1	<0.1	<0.1	<0.1	
4/20/2020									
4/21/2020	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	0.347
4/22/2020		<0.1	0.104						

Time Series

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						1.54	0.412	1.44	
2/17/2016	0.146	0.0288 (J)	0.478	2.12	0.503				0.581
4/12/2016		0.0293 (J)	0.467	2.06					
4/13/2016	0.125				0.478	1.56	0.376	0.373	0.61
5/31/2016			0.443	1.97	0.452			1.26	0.615
6/1/2016	0.114	0.0279 (J)				1.49	0.338		
8/15/2016	0.128	0.0332 (J)							
8/16/2016								1.34	0.554
8/17/2016			0.477	2.01	0.492	1.57	0.412		
9/19/2016									
9/20/2016									
10/11/2016	0.129	0.0328 (J)	0.489	1.91					
10/12/2016					0.487	1.65	0.46	1.34	0.537
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	0.124	0.0262 (J)	0.475	1.62					
1/25/2017					0.529	1.89	0.586	1.38	0.562
1/26/2017									
5/9/2017	0.121	0.0298 (J)	0.479						0.528
5/10/2017				1.62	0.533	1.94	0.661	1.23	
6/27/2017									
6/28/2017	0.111	0.0226 (J)	0.448	1.71	0.501	1.72	0.673	1.05	0.313
8/29/2017				1.7	0.51	1.63	0.723	1.17	0.241
8/30/2017	0.0915 (J)	<0.1	0.407						
6/4/2018	0.134	0.0296 (J)							
6/5/2018			0.489	1.56	0.605	1.73	0.954	1.31	0.311
6/6/2018									
11/5/2018									0.262
11/6/2018	0.131	0.0268 (J)	0.508						
11/7/2018				1.6	0.677	1.8	1.11	1.26	
3/26/2019				1.63	0.727	1.81	1.14		
3/27/2019	0.138	0.0316 (J)	0.502					1.11	0.298
9/9/2019	0.157	0.035 (J)							
9/10/2019				1.83	0.764	1.82	1.23	1.27	0.141
9/11/2019			0.595						
4/20/2020		<0.1							
4/21/2020	0.14		0.72	1.77	0.793	1.89	1.27		
4/22/2020								1.23	0.447

Time Series

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	0.273	0.26	0.739					0.286	
2/17/2016				0.454	1.47	1.66	1.94		
4/12/2016		0.26	0.733	0.444			2.03		
4/13/2016	0.276				1.48	1.64		0.26	
5/31/2016	0.291	0.318	0.603	0.424					
6/1/2016					1.22	1.66	1.74	0.283	
8/15/2016					1.31	1.83	1.66		
8/16/2016	0.268	0.322		0.438				0.292	<0.1
8/17/2016			0.509						
9/19/2016									<0.1
9/20/2016									
10/11/2016				0.456					<0.1
10/12/2016	0.252	0.244	0.569		1.37	2.12	1.77	0.254	
11/14/2016									<0.1
11/15/2016									
1/3/2017									<0.1
1/4/2017									
1/23/2017									
1/24/2017				0.458	1.38	1.94	1.49		0.0282 (J)
1/25/2017	0.167	0.188	0.671					0.133	
1/26/2017									
5/9/2017	0.32	0.281	0.622					0.304	
5/10/2017				0.486	1.41	1.99	1.65		<0.1
6/27/2017				0.454	1.43	2.18	1.66		<0.1
6/28/2017	0.231	0.153	0.695					0.243	
8/29/2017	0.191	0.112	1					0.249	
8/30/2017				0.441	1.36	1.71	1.53		<0.1
6/4/2018									
6/5/2018				0.543	1.36	1.76	1.36		<0.1
6/6/2018	0.26	0.244	1.01					0.245	
11/5/2018	0.127	0.104						0.151	
11/6/2018				0.614	1.47	1.74	1.48		<0.1
11/7/2018			0.908						
3/26/2019	0.111	0.213		0.697	1.38	1.74	1.63	0.0834 (J)	
3/27/2019			1.33						<0.1
9/9/2019						2.33	1.73		
9/10/2019	0.153		1.49	0.73	1.69			0.16	
9/11/2019		0.535							<0.1
4/20/2020		0.642		0.791	1.83				
4/21/2020	0.872		1.55			1.97	1.51	0.586	
4/22/2020									<0.1

Time Series

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.1	0.0268 (J)
8/17/2016		
9/19/2016	<0.1	0.0225 (J)
9/20/2016		
10/11/2016	<0.1	0.0304 (J)
10/12/2016		
11/14/2016	<0.1	0.0355 (J)
11/15/2016		
1/3/2017	<0.1	0.0304 (J)
1/4/2017		
1/23/2017		
1/24/2017	<0.1	
1/25/2017		<0.1
1/26/2017		
5/9/2017		
5/10/2017	<0.1	<0.1
6/27/2017	<0.1	<0.1
6/28/2017		
8/29/2017		
8/30/2017	<0.1	<0.1
6/4/2018		
6/5/2018	<0.1	<0.1
6/6/2018		
11/5/2018	<0.1	
11/6/2018		<0.1
11/7/2018		
3/26/2019		
3/27/2019	<0.1	<0.1
9/9/2019		
9/10/2019		
9/11/2019	<0.1	<0.1
4/20/2020		
4/21/2020		
4/22/2020	<0.1	<0.1

Time Series

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					0.148				
1/15/2019				0.224		1.68	0.702	0.762	1.73
1/16/2019		0.0284 (J)							
1/17/2019	<0.1								
1/30/2019			0.164						
9/10/2019	<0.1						0.734		
9/11/2019		<0.1	0.147		0.175	1.67		0.758	1.88
4/20/2020							0.821		
4/21/2020		<0.1							1.76
4/22/2020	<0.1		0.143	0.186	0.118	1.89			
4/29/2020								0.699	

Time Series

Constituent: Boron (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	0.835	0.173						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	1.07	0.199						
4/20/2020		0.2	0.309	0.626	0.252			0.426
4/21/2020	1.08					0.172	0.272	
4/22/2020								
4/29/2020								

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.001	<0.001	<0.001						<0.001
4/12/2016	<0.001	<0.001	<0.001						
4/13/2016									<0.001
5/31/2016									
6/1/2016	<0.001	<0.001	<0.001						<0.001
8/15/2016									<0.001
8/16/2016	<0.001	<0.001					<0.001	<0.001	
8/17/2016			<0.001	<0.001	0.000211 (J)	0.000742 (J)			
9/19/2016									
9/20/2016				<0.001	<0.001	0.000857 (J)	<0.001	<0.001	
10/11/2016	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
10/12/2016				<0.001	<0.001	0.000912 (J)			
11/14/2016									
11/15/2016				<0.001	0.000216 (J)	0.000821 (J)	<0.001	<0.001	
1/3/2017									
1/4/2017				<0.001	<0.001	0.000718 (J)	<0.001	<0.001	
1/23/2017				<0.001	0.000231 (J)			<0.001	
1/24/2017	<0.001	<0.001	<0.001			0.000716 (J)			<0.001
1/25/2017									
1/26/2017							0.000228 (J)		
5/9/2017	<0.001		<0.001	0.000706 (J)	<0.001	0.000746 (J)	0.000277 (J)	<0.001	<0.001
5/10/2017		<0.001							
6/27/2017	<0.001			0.000429 (J)	<0.001	0.00065 (J)	<0.001	<0.001	<0.001
6/28/2017		<0.001	<0.001						
2/27/2018	<0.001	<0.001		<0.001	<0.001	0.000752 (J)	<0.001	<0.001	<0.001
2/28/2018			<0.001						
6/4/2018									<0.001
6/5/2018	<0.001	<0.001		<0.001	<0.001	0.000731 (J)	<0.001	<0.001	
6/6/2018			<0.001						
11/5/2018									
11/6/2018			<0.001	<0.001	<0.001	0.000646 (J)	<0.001	<0.001	<0.001
11/7/2018	<0.001	<0.001							
3/26/2019	<0.001	<0.001		<0.001	<0.001	0.000582 (J)	<0.001	<0.001	
3/27/2019			<0.001						<0.001
9/9/2019									
9/10/2019	<0.001	<0.001	<0.001						<0.001
9/11/2019				<0.001	<0.001	0.000573 (J)	<0.001	<0.001	
4/20/2020									
4/21/2020	<0.001			<0.001	<0.001	0.00052 (J)	<0.001	<0.001	<0.001
4/22/2020		<0.001	<0.001						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.001	<0.001	<0.001	
2/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001				<0.001
4/12/2016		<0.001	<0.001	<0.001					
4/13/2016	<0.001				<0.001	<0.001	<0.001	<0.001	<0.001
5/31/2016			<0.001	<0.001	<0.001			<0.001	<0.001
6/1/2016	<0.001	<0.001				<0.001	<0.001		
8/15/2016	<0.001	<0.001							
8/16/2016								<0.001	<0.001
8/17/2016			<0.001	<0.001	<0.001	<0.001	<0.001		
9/19/2016									
9/20/2016									
10/11/2016	<0.001	<0.001	<0.001	<0.001					
10/12/2016					<0.001	<0.001	<0.001	<0.001	<0.001
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<0.001	<0.001	<0.001	<0.001					
1/25/2017					<0.001	<0.001	<0.001	<0.001	<0.001
1/26/2017									
5/9/2017	<0.001	<0.001	<0.001						<0.001
5/10/2017				<0.001	<0.001	<0.001	<0.001	<0.001	
6/27/2017									
6/28/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/27/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/28/2018									
6/4/2018	<0.001	<0.001							
6/5/2018			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/6/2018									
11/5/2018									<0.001
11/6/2018	<0.001	<0.001	<0.001						
11/7/2018				<0.001	<0.001	<0.001	<0.001	<0.001	
3/26/2019				<0.001	<0.001	<0.001	<0.001		
3/27/2019	<0.001	<0.001	<0.001					<0.001	<0.001
9/9/2019	<0.001	<0.001							
9/10/2019				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/11/2019			<0.001						
4/20/2020		<0.001							
4/21/2020	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001		
4/22/2020								<0.001	<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	<0.001	<0.001	<0.001					<0.001	
2/17/2016				<0.001	<0.001	<0.001	<0.001		
4/12/2016		<0.001	<0.001	<0.001			<0.001		
4/13/2016	<0.001				<0.001	<0.001		<0.001	
5/31/2016	<0.001	<0.001	<0.001	<0.001					
6/1/2016					<0.001	<0.001	<0.001	<0.001	
8/15/2016					<0.001	<0.001	<0.001		
8/16/2016	<0.001	<0.001		<0.001				<0.001	<0.001
8/17/2016			<0.001						
9/19/2016									<0.001
9/20/2016									
10/11/2016				<0.001					<0.001
10/12/2016	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	
11/14/2016									<0.001
11/15/2016									
1/3/2017									<0.001
1/4/2017									
1/23/2017									
1/24/2017				<0.001	<0.001	<0.001	<0.001		<0.001
1/25/2017	<0.001	<0.001	<0.001					<0.001	
1/26/2017									
5/9/2017	<0.001	<0.001	<0.001					<0.001	
5/10/2017				<0.001	<0.001	<0.001	<0.001		<0.001
6/27/2017				<0.001	<0.001	<0.001	<0.001		<0.001
6/28/2017	<0.001	<0.001	<0.001					<0.001	
2/27/2018			<0.001						<0.001
2/28/2018	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	
6/4/2018									
6/5/2018				<0.001	<0.001	<0.001	<0.001		<0.001
6/6/2018	<0.001	<0.001	<0.001					<0.001	
11/5/2018	<0.001	<0.001						<0.001	
11/6/2018				<0.001	<0.001	<0.001	<0.001		<0.001
11/7/2018			<0.001						
3/26/2019	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	
3/27/2019			<0.001						<0.001
9/9/2019						<0.001	<0.001		
9/10/2019	<0.001		<0.001	<0.001	<0.001			<0.001	
9/11/2019		<0.001							<0.001
4/20/2020		<0.001		<0.001	<0.001				
4/21/2020	<0.001		<0.001			<0.001	<0.001	<0.001	
4/22/2020									<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.001	<0.001
8/17/2016		
9/19/2016	<0.001	<0.001
9/20/2016		
10/11/2016	<0.001	<0.001
10/12/2016		
11/14/2016	<0.001	<0.001
11/15/2016		
1/3/2017	<0.001	<0.001
1/4/2017		
1/23/2017		
1/24/2017	<0.001	
1/25/2017		<0.001
1/26/2017		
5/9/2017		
5/10/2017	<0.001	<0.001
6/27/2017	<0.001	<0.001
6/28/2017		
2/27/2018	<0.001	<0.001
2/28/2018		
6/4/2018		
6/5/2018	<0.001	<0.001
6/6/2018		
11/5/2018	<0.001	
11/6/2018		<0.001
11/7/2018		
3/26/2019		
3/27/2019	<0.001	<0.001
9/9/2019		
9/10/2019		
9/11/2019	<0.001	<0.001
4/20/2020		
4/21/2020		
4/22/2020	<0.001	<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					<0.001				
1/15/2019				<0.001		<0.001	<0.001	<0.001	<0.001
1/16/2019		<0.001							
1/17/2019	<0.001								
1/30/2019			<0.001						
9/10/2019	<0.001						<0.001		
9/11/2019		<0.001	<0.001		<0.001	<0.001		<0.001	<0.001
4/20/2020							<0.001		
4/21/2020		<0.001							<0.001
4/22/2020	<0.001		<0.001	<0.001	<0.001	<0.001			
4/29/2020								<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	<0.001	<0.001						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	<0.001	<0.001						
4/20/2020		<0.001	<0.001	<0.001	<0.001			<0.001
4/21/2020	<0.001					<0.001	<0.001	
4/22/2020								
4/29/2020								

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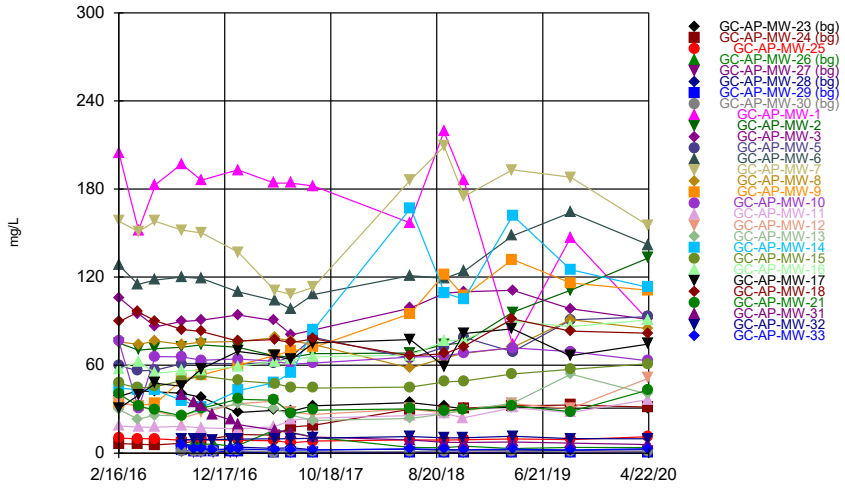
Time Series



Constituent: Calcium Analysis Run 7/13/2020 3:34 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

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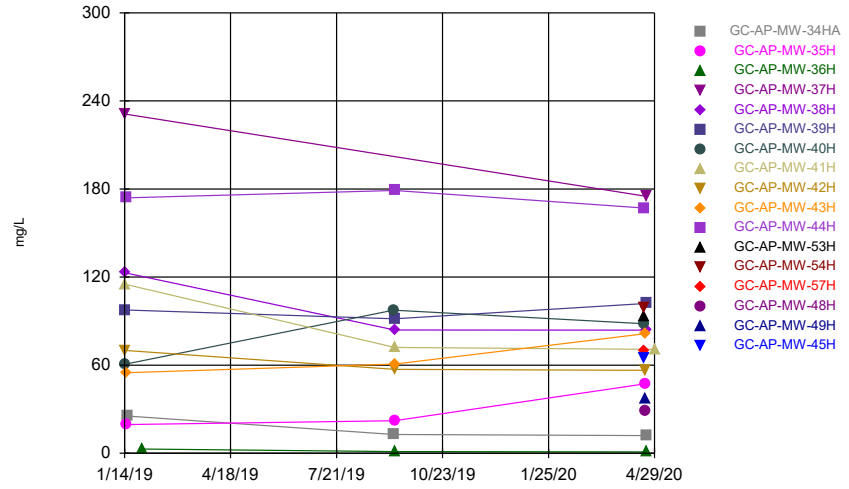
Time Series



Constituent: Calcium Analysis Run 7/13/2020 3:34 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

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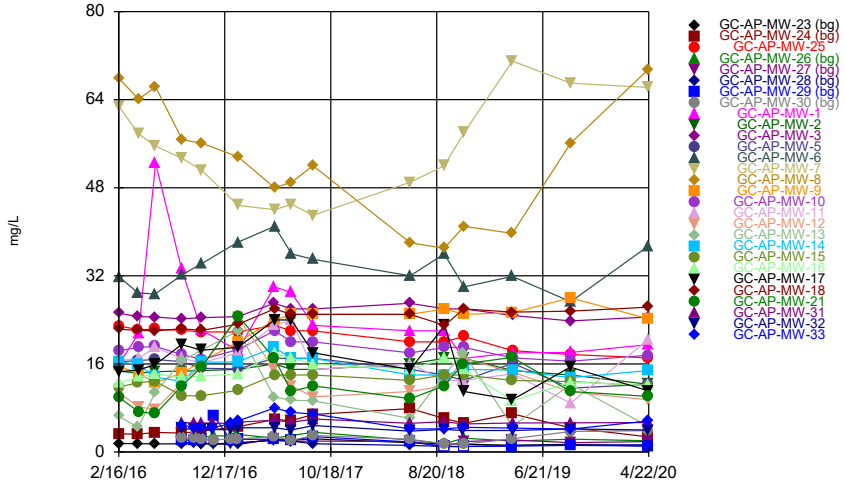
Hollow symbols indicate censored values.

Time Series



Constituent: Chloride Analysis Run 7/13/2020 3:34 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

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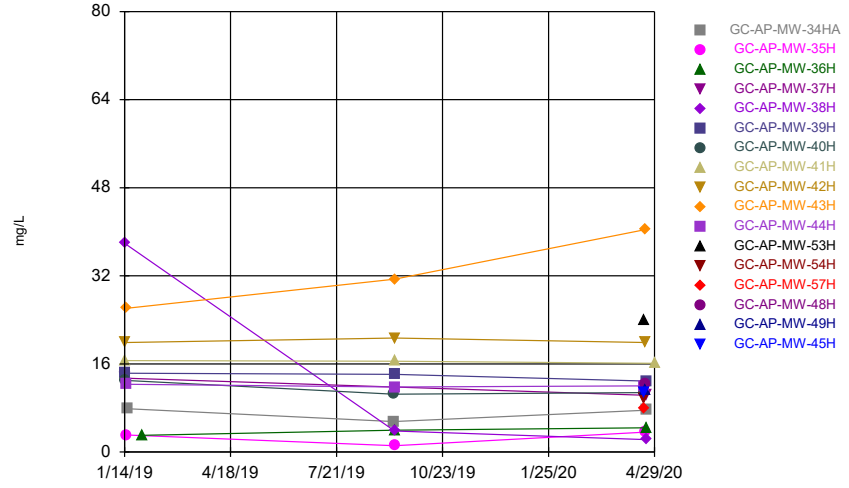
Time Series



Constituent: Chloride Analysis Run 7/13/2020 3:34 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	38.7	6.54	10.2						204
4/12/2016	42.7	6.15	10						
4/13/2016									152
5/31/2016									
6/1/2016	41.8	5.7	9.87						183
8/15/2016									197
8/16/2016	40.9	6.77					2.02	1.24	
8/17/2016			8.88	5.88	1.1	7.74			
9/19/2016									
9/20/2016				5.95	0.771	2.43	1.22	1.11	
10/11/2016	38.1	8.84	9.22				1.48	1.22	186
10/12/2016				6.1	0.711	2.46			
11/14/2016									
11/15/2016				6.28	0.641	2.28	1.36	1.34	
1/3/2017									
1/4/2017				4.97	0.797	2.7	1.11	2.39	
1/23/2017				5.17	0.655			1.83	
1/24/2017	27.7	12.8	8.72			4.19			193
1/25/2017									
1/26/2017							1.03		
5/9/2017	29.3		8.56	15.7	0.538	3.28	0.289 (J)	0.823	184
5/10/2017		12.4							
6/27/2017	28.6			14.2	0.413 (J)	3.76	0.292 (J)	0.956	184
6/28/2017		17.9	7.16						
8/29/2017	32.3	19	8.32	11.1	0.504				
8/30/2017						2.31	0.336 (J)	1.04	182
6/4/2018									157
6/5/2018	34.5	30		3.93	0.339 (J)	2.76	0.2 (J)	1.18	
6/6/2018			9.05						
9/10/2018									219
9/11/2018	32	28.7		3.76	0.776	2.04	0.171 (J)	1.5	
9/12/2018			8.98						
11/5/2018									
11/6/2018			9.21	4.81	0.746	2	0.193 (J)	1.64	186
11/7/2018	30.3	30.7							
3/26/2019	31.3	32.3		3.18	0.526	2.13	0.223 (J)	1.33	
3/27/2019			9.77						73.8
9/9/2019									
9/10/2019	30.7	32.8	9.28						147
9/11/2019				3.98	0.638	1.98	0.158 (J)	0.925	
4/20/2020									
4/21/2020	30.8			3.83	1.15	2.41	0.287 (J)	0.864	90.5
4/22/2020		31.4	11.3						

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						75.9	33.9	76.3	
2/17/2016	75	106	59.8	128	158				18.6
4/12/2016		95.2	56.1	115					
4/13/2016	70.2				151	74.1	32.5	30.5	17.8
5/31/2016			56.6	118	158			65.9	17.7
6/1/2016	71.2	86.1				76.4	33.9		
8/15/2016	72.2	89.7							
8/16/2016								65.6	18.4
8/17/2016			61	120	152	74.2	50.3		
9/19/2016									
9/20/2016									
10/11/2016	73.8	90.6	61.3	119					
10/12/2016					150	75.7	53.3	63.4	17.3
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	72.2	94.2	61	110					
1/25/2017					137	76.1	59.9	64.2	16.6
1/26/2017									
5/9/2017	66.4	90.3	61.7						18
5/10/2017				104	111	78.6	66.5	62.6	
6/27/2017									
6/28/2017	65.4	80.7	66.1	98	108	76.4	69.8	60.8	22.6
8/29/2017				108	113	74.1	72	61.4	23.9
8/30/2017	67.8	84	78.9						
6/4/2018	68.3	98.8							
6/5/2018			64.8	121	186	58	95.1	65.5	25.7
6/6/2018									
9/10/2018	73.9								27.2
9/11/2018			72.2	119	209	64.9	122	66.1	
9/12/2018		109							
11/5/2018									24.1
11/6/2018	75.1	110	78.9						
11/7/2018				124	175	68.1	107	68.5	
3/26/2019				148	193	72	132		
3/27/2019	96.1	111	69.1					71.8	31
9/9/2019	111	98.5							
9/10/2019				164	188	91	116	69.3	27.7
9/11/2019			90.8						
4/20/2020		91.2							
4/21/2020	133		93	142	155	84.8	111		
4/22/2020								62.9	36.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	34.6	29.8	44.4					40.4	
2/17/2016				47.7	57	30.7	89.6		
4/12/2016		23.3	43.2	44.4			96.2		
4/13/2016	32.2				62.5	39.5		32.2	
5/31/2016	28.8	25.9	43	45.3					
6/1/2016					54.4	47.7	90.2	29.3	
8/15/2016					56.2	45.6	84.4		
8/16/2016	24	25.5		49.4				25.4	39.5
8/17/2016			35.9						
9/19/2016									34.5
9/20/2016									
10/11/2016				52.7					32.4
10/12/2016	27.8	29.5	31.1		56.6	57.6	82.9	30.7	
11/14/2016									26.5
11/15/2016									
1/3/2017									22.6
1/4/2017									
1/23/2017									
1/24/2017				49.4	59.1	69.4	76.4		19.5
1/25/2017	33.7	33.6	42.7					36.8	
1/26/2017									
5/9/2017	35.5	30.4	48.1					36.1	
5/10/2017				47.4	62.5	66.2	77.4		15.7
6/27/2017				44.9	63.6	63.8	75.4		13.8
6/28/2017	28	26	55					26.9	
8/29/2017	26.4	22.3	83.6					29.4	
8/30/2017				44.4	65.7	75.1	78		11.1
6/4/2018									
6/5/2018				45.1	66.8	77.4	66.3		9.12
6/6/2018	30.1	23.7	167					30.2	
9/10/2018								28.8	
9/11/2018	27.4	26.8		48.5					7.5
9/12/2018			109		76.3	58.9	67.8		
11/5/2018	28.8	29.4						29.7	
11/6/2018				49.2	77.4	81.6	72.7		7.39
11/7/2018			105						
3/26/2019	33.7	34.1		54	90	84.7	91.5	32.4	
3/27/2019			162						7.65
9/9/2019						66.4	83.2		
9/10/2019	30.5		125	57.2	86.3			28.4	
9/11/2019		53.9							6.96
4/20/2020		40.3		61	90.8				
4/21/2020	51		113			74.4	81.8	43.1	
4/22/2020									5.92

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	9.33	5.54
8/17/2016		
9/19/2016	9.26	3.01
9/20/2016		
10/11/2016	9.31	2.74
10/12/2016		
11/14/2016	9.17	2.47
11/15/2016		
1/3/2017	9.66	2.94
1/4/2017		
1/23/2017		
1/24/2017	9.67	
1/25/2017		2.91
1/26/2017		
5/9/2017		
5/10/2017	9.81	2.27
6/27/2017	9.88	2.2
6/28/2017		
8/29/2017		
8/30/2017	10.3	2.26
6/4/2018		
6/5/2018	11.4	2.97
6/6/2018		
9/10/2018		
9/11/2018	10.5	2.6
9/12/2018		
11/5/2018	10.5	
11/6/2018		2.42
11/7/2018		
3/26/2019		
3/27/2019	11.6	2.75
9/9/2019		
9/10/2019		
9/11/2019	9.95	2.17
4/20/2020		
4/21/2020		
4/22/2020	9.87	3.15

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					123				
1/15/2019				231		97.6	60.7	115	70
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	57.2
4/20/2020							88.2		
4/21/2020		47.3							56.5
4/22/2020	12		0.941	175	83.9	102			
4/29/2020								70.8	

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	54.9	174						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	60.7	179						
4/20/2020		167	93.1	98.8	69.5			64.9
4/21/2020	81.4					28.9	36.8	
4/22/2020								
4/29/2020								

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	1.54	3.3	22.9						16
4/12/2016	1.51	3.25	22.2						
4/13/2016									21.5
5/31/2016									
6/1/2016	1.46	3.55	22.3						52.5
8/15/2016									33.3
8/16/2016	1.5	3.45					2.21	2.54	
8/17/2016			22.1	2.44	1.78	1.77			
9/19/2016									
9/20/2016				2.54	1.61	1.56	2.12	2.51	
10/11/2016	1.52	3.78	21.8				2.24	2.34	22.2
10/12/2016				2.67	1.51	1.54			
11/14/2016									
11/15/2016				2.94	1.5	1.53	6.65	2.1	
1/3/2017									
1/4/2017				2.92	1.53	1.58	2.15	2.44	
1/23/2017				3.21	1.62			2.37	
1/24/2017	1.38	4.61	21.8			1.71			18.4
1/25/2017									
1/26/2017							2.31		
5/9/2017	2.4		23	2.5	2.2	2.1	2.3	2.8	30
5/10/2017		5.9							
6/27/2017	2.1			3	1.9 (J)	2	2.1	2.1	29
6/28/2017		5.7	22						
8/29/2017	2.4	6.8	22	3.6	2				
8/30/2017						1.5 (J)	2.8	3	23
6/4/2018									22
6/5/2018	1.7 (J)	7.9		2.2	1.9 (J)	1.2 (J)	1.8 (J)	2.3	
6/6/2018			20						
9/10/2018									22
9/11/2018	1.5 (J)	6.1		1.5 (J)	<2	<2	<2	1.5 (J)	
9/12/2018			20						
11/5/2018									
11/6/2018			21	2.5	1.9 (J)	<2	<2	1.4 (J)	17
11/7/2018	1.4 (J)	5.2							
3/26/2019	1.23	6.92		2	2.18	1.2	1.07	2.42	
3/27/2019			18.4						18
9/9/2019									
9/10/2019	1.38	4.39	17.7						18.1
9/11/2019				2.34	1.7	1.26	1.19	3.72	
4/20/2020									
4/21/2020	1.08			2.04	1.9	1.32	1.09	3.89	19.5
4/22/2020		2.75	17.1						

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						67.9	15.6	18.4	
2/17/2016	14.7	25.2	16.4	31.8	62.7				16.6
4/12/2016		24.6	16.6	28.9					
4/13/2016	14.3				57.8	64.1	14.3	19	17
5/31/2016			16.8	28.7	55.6			19.2	19
6/1/2016	14.6	24.5				66.3	12.6		
8/15/2016	14.7	24.2							
8/16/2016								17.7	17
8/17/2016			16.4	32.2	53.3	56.7	14.4		
9/19/2016									
9/20/2016									
10/11/2016	14.8	24.4	15.2	34.2					
10/12/2016					51.2	56.1	16.4	16.8	16.2
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	15	24.6	15.1	38.1					
1/25/2017					44.8	53.6	20	18.6	18
1/26/2017									
5/9/2017	16	27	17						23
5/10/2017				41	44	48	24	22	
6/27/2017									
6/28/2017	15	26	17	36	45	49	25	20	24
8/29/2017				35	43	52	25	20	15
8/30/2017	15	26	17						
6/4/2018	16	27							
6/5/2018			15	32	49	38	25	18	16
6/6/2018									
9/10/2018	17								13
9/11/2018			14	36	52	37	26	19	
9/12/2018		26							
11/5/2018									13
11/6/2018	17	26	13						
11/7/2018				30	58	41	25	19	
3/26/2019				31.9	71	39.7	25.3		
3/27/2019	14.8	24.8	16.1					17.1	14.2
9/9/2019	14	23.8							
9/10/2019				27.3	67	56.1	28	16.5	8.88
9/11/2019			11.6						
4/20/2020		24.5							
4/21/2020	12.3		12.3	37.4	66.2	69.5	24.2		
4/22/2020								17.6	20.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	10.8	6.52	16.4					9.95	
2/17/2016				11.8	12.5	14.6	22.3		
4/12/2016		4.47	15.9	12.6			22.1		
4/13/2016	8.2				13.6	14.9		7.33	
5/31/2016	7.74	10.8	13.6	12.9					
6/1/2016					14.2	15.9	22	6.97	
8/15/2016					13.6	19.5	22.4		
8/16/2016	12.5	16.6		10.2				12	5.32
8/17/2016			12.8						
9/19/2016									5.29
9/20/2016									
10/11/2016				10.2					5.26
10/12/2016	15.7	18.5	16.3		13.8	18.5	22.1	15.4	
11/14/2016									5.28
11/15/2016									
1/3/2017									5.18
1/4/2017									
1/23/2017									
1/24/2017				11.2	14.2	19	23.2		5.41
1/25/2017	24.4	22	16.4					24.7	
1/26/2017									
5/9/2017	15	10	19					17	
5/10/2017				14	18	24	26		5.8
6/27/2017				14	17	24	25		5.4
6/28/2017	12	9.4	17					11	
8/29/2017	10	9.3	17					12	
8/30/2017				14	16	18	25		6
6/4/2018									
6/5/2018				13	15	15	25		5.2
6/6/2018	11	6.1	14					9.7	
9/10/2018								12	
9/11/2018	12	14		14					5.5
9/12/2018			14		17	23	23		
11/5/2018	17	18						16	
11/6/2018				14	15	11	26		5.1
11/7/2018			15						
3/26/2019	14.5	4.7		13	9.27	9.52	25.4	17.2	
3/27/2019			14.9						5.26
9/9/2019						15.4	25.6		
9/10/2019	10.9		13.5	12.8	12.7			11	
9/11/2019		12.3							5.31
4/20/2020		4.7		12	12.1				
4/21/2020	9.49		14.8			11.1	26.3	10.1	
4/22/2020									5.37

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	4.24	4.88
8/17/2016		
9/19/2016	4.13	4.45
9/20/2016		
10/11/2016	4.07	4.36
10/12/2016		
11/14/2016	4.08	4.42
11/15/2016		
1/3/2017	4.06	5.18
1/4/2017		
1/23/2017		
1/24/2017	4.4	
1/25/2017		5.66
1/26/2017		
5/9/2017		
5/10/2017	4.4	8
6/27/2017	4	7.2
6/28/2017		
8/29/2017		
8/30/2017	4.8	6.9
6/4/2018		
6/5/2018	3.8	4.2
6/6/2018		
9/10/2018		
9/11/2018	4.1	4.2
9/12/2018		
11/5/2018	3.9	
11/6/2018		4.5
11/7/2018		
3/26/2019		
3/27/2019	3.9	4.33
9/9/2019		
9/10/2019		
9/11/2019	4.21	4.16
4/20/2020		
4/21/2020		
4/22/2020	4	5.66

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					37.9				
1/15/2019				13.4		14.3	13	16.6	19.9
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	20.7
4/20/2020							10.8		
4/21/2020		3.62							19.9
4/22/2020	7.6		4.4	10.3	2.25	12.9			
4/29/2020								16.1	

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	26.1	12.3						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	31.4	11.8						
4/20/2020		12	23.9	9.74	7.88			10.9
4/21/2020	40.4					12.3	11.3	
4/22/2020								
4/29/2020								

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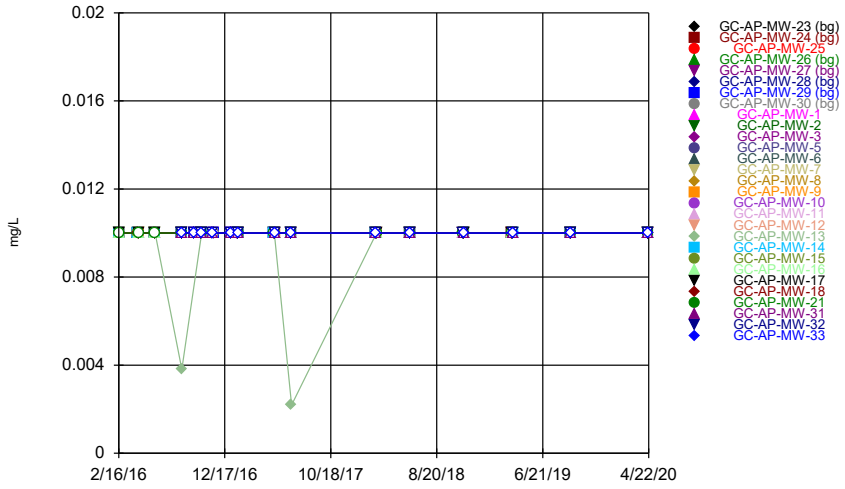
Hollow symbols indicate censored values.

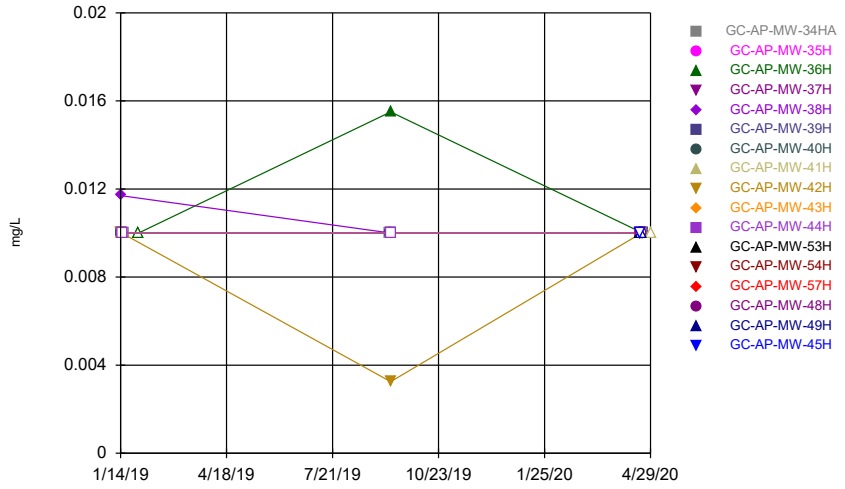
Time Series



Constituent: Chromium Analysis Run 7/13/2020 3:34 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

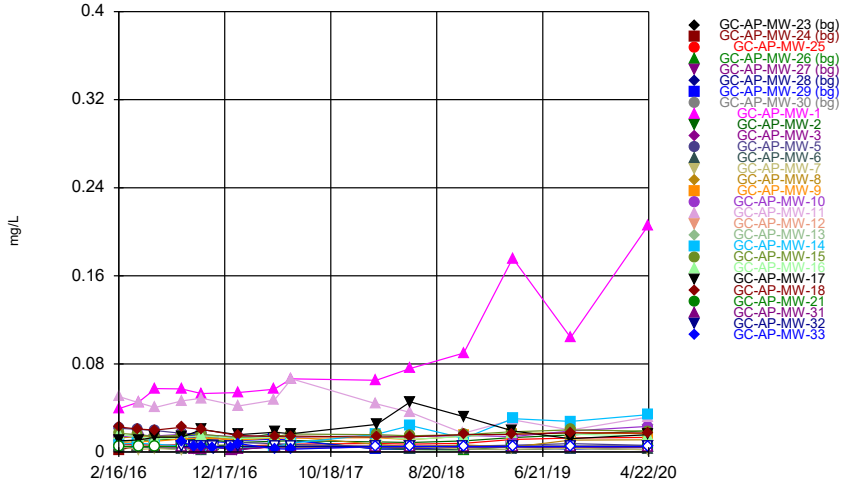
Time Series



Constituent: Chromium Analysis Run 7/13/2020 3:34 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 7/13/2020 3:34 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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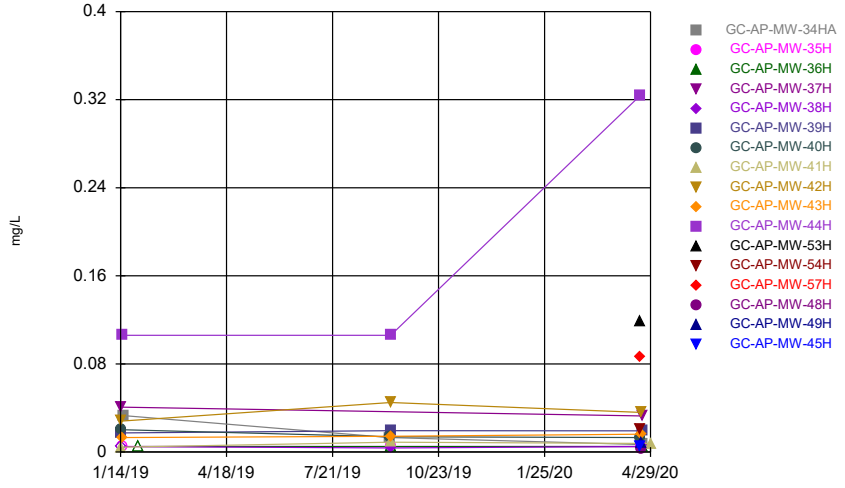
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 7/13/2020 3:35 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.01	<0.01	<0.01						<0.01
4/12/2016	<0.01	<0.01	<0.01						
4/13/2016									<0.01
5/31/2016									
6/1/2016	<0.01	<0.01	<0.01						<0.01
8/15/2016									<0.01
8/16/2016	<0.01	<0.01					<0.01	<0.01	
8/17/2016			<0.01	<0.01	<0.01	<0.01			
9/19/2016									
9/20/2016				<0.01	<0.01	<0.01	<0.01	<0.01	
10/11/2016	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01
10/12/2016				<0.01	<0.01	<0.01			
11/14/2016									
11/15/2016				<0.01	<0.01	<0.01	<0.01	<0.01	
1/3/2017									
1/4/2017				<0.01	<0.01	<0.01	<0.01	<0.01	
1/23/2017				<0.01	<0.01			<0.01	
1/24/2017	<0.01	<0.01	<0.01			<0.01			<0.01
1/25/2017									
1/26/2017							<0.01		
5/9/2017	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
5/10/2017		<0.01							
6/27/2017	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6/28/2017		<0.01	<0.01						
2/27/2018	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/28/2018			<0.01						
6/4/2018									<0.01
6/5/2018	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
6/6/2018			<0.01						
11/5/2018									
11/6/2018			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/7/2018	<0.01	<0.01							
3/26/2019	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
3/27/2019			<0.01						<0.01
9/9/2019									
9/10/2019	<0.01	<0.01	<0.01						<0.01
9/11/2019				<0.01	<0.01	<0.01	<0.01	<0.01	
4/20/2020									
4/21/2020	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/22/2020		<0.01	<0.01						

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.01	<0.01	<0.01	
2/17/2016	<0.01	<0.01	<0.01	<0.01	<0.01				<0.01
4/12/2016		<0.01	<0.01	<0.01					
4/13/2016	<0.01				<0.01	<0.01	<0.01	<0.01	<0.01
5/31/2016			<0.01	<0.01	<0.01			<0.01	<0.01
6/1/2016	<0.01	<0.01				<0.01	<0.01		
8/15/2016	<0.01	<0.01							
8/16/2016								<0.01	<0.01
8/17/2016			<0.01	<0.01	<0.01	<0.01	<0.01		
9/19/2016									
9/20/2016									
10/11/2016	<0.01	<0.01	<0.01	<0.01					
10/12/2016					<0.01	<0.01	<0.01	<0.01	<0.01
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<0.01	<0.01	<0.01	<0.01					
1/25/2017					<0.01	<0.01	<0.01	<0.01	<0.01
1/26/2017									
5/9/2017	<0.01	<0.01	<0.01						<0.01
5/10/2017				<0.01	<0.01	<0.01	<0.01	<0.01	
6/27/2017									
6/28/2017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/27/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/28/2018									
6/4/2018	<0.01	<0.01							
6/5/2018			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6/6/2018									
11/5/2018									<0.01
11/6/2018	<0.01	<0.01	<0.01						
11/7/2018				<0.01	<0.01	<0.01	<0.01	<0.01	
3/26/2019				<0.01	<0.01	<0.01	<0.01		
3/27/2019	<0.01	<0.01	<0.01					<0.01	<0.01
9/9/2019	<0.01	<0.01							
9/10/2019				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/11/2019			<0.01						
4/20/2020		<0.01							
4/21/2020	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01		
4/22/2020								<0.01	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	<0.01	<0.01	<0.01					<0.01	
2/17/2016				<0.01	<0.01	<0.01	<0.01		
4/12/2016		<0.01	<0.01	<0.01			<0.01		
4/13/2016	<0.01				<0.01	<0.01		<0.01	
5/31/2016	<0.01	<0.01	<0.01	<0.01					
6/1/2016					<0.01	<0.01	<0.01	<0.01	
8/15/2016					<0.01	<0.01	<0.01		
8/16/2016	<0.01	0.00381 (J)		<0.01				<0.01	<0.01
8/17/2016			<0.01						
9/19/2016									<0.01
9/20/2016									
10/11/2016				<0.01					<0.01
10/12/2016	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	
11/14/2016									<0.01
11/15/2016									
1/3/2017									<0.01
1/4/2017									
1/23/2017									
1/24/2017				<0.01	<0.01	<0.01	<0.01		<0.01
1/25/2017	<0.01	<0.01	<0.01					<0.01	
1/26/2017									
5/9/2017	<0.01	<0.01	<0.01					<0.01	
5/10/2017				<0.01	<0.01	<0.01	<0.01		<0.01
6/27/2017				<0.01	<0.01	<0.01	<0.01		<0.01
6/28/2017	<0.01	0.00219 (J)	<0.01					<0.01	
2/27/2018			<0.01						<0.01
2/28/2018	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
6/4/2018									
6/5/2018				<0.01	<0.01	<0.01	<0.01		<0.01
6/6/2018	<0.01	<0.01	<0.01					<0.01	
11/5/2018	<0.01	<0.01						<0.01	
11/6/2018				<0.01	<0.01	<0.01	<0.01		<0.01
11/7/2018			<0.01						
3/26/2019	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
3/27/2019			<0.01						<0.01
9/9/2019						<0.01	<0.01		
9/10/2019	<0.01		<0.01	<0.01	<0.01			<0.01	
9/11/2019		<0.01							<0.01
4/20/2020		<0.01		<0.01	<0.01				
4/21/2020	<0.01		<0.01			<0.01	<0.01	<0.01	
4/22/2020									<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.01	<0.01
8/17/2016		
9/19/2016	<0.01	<0.01
9/20/2016		
10/11/2016	<0.01	<0.01
10/12/2016		
11/14/2016	<0.01	<0.01
11/15/2016		
1/3/2017	<0.01	<0.01
1/4/2017		
1/23/2017		
1/24/2017	<0.01	
1/25/2017		<0.01
1/26/2017		
5/9/2017		
5/10/2017	<0.01	<0.01
6/27/2017	<0.01	<0.01
6/28/2017		
2/27/2018	<0.01	<0.01
2/28/2018		
6/4/2018		
6/5/2018	<0.01	<0.01
6/6/2018		
11/5/2018	<0.01	
11/6/2018		<0.01
11/7/2018		
3/26/2019		
3/27/2019	<0.01	<0.01
9/9/2019		
9/10/2019		
9/11/2019	<0.01	<0.01
4/20/2020		
4/21/2020		
4/22/2020	<0.01	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					0.0117				
1/15/2019				<0.01		<0.01	<0.01	<0.01	<0.01
1/16/2019		<0.01							
1/17/2019	<0.01								
1/30/2019			<0.01						
9/10/2019	<0.01						<0.01		
9/11/2019		<0.01	0.0155		<0.01	<0.01		<0.01	0.00325 (J)
4/20/2020							<0.01		
4/21/2020		<0.01							<0.01
4/22/2020	<0.01		<0.01	<0.01	<0.01	<0.01			
4/29/2020								<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	<0.01	<0.01						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	<0.01	<0.01						
4/20/2020		<0.01	<0.01	<0.01	<0.01			<0.01
4/21/2020	<0.01					<0.01	<0.01	
4/22/2020								
4/29/2020								

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.005	0.00219 (J)	0.00683 (J)						0.0395
4/12/2016	<0.005	<0.005	0.00656 (J)						
4/13/2016									0.0452
5/31/2016									
6/1/2016	<0.005	<0.005	0.00637 (J)						0.0576
8/15/2016									0.0573
8/16/2016	<0.005	<0.005					0.0122	0.00548 (J)	
8/17/2016			0.00659 (J)	0.0167	0.00692 (J)	0.00599 (J)			
9/19/2016									
9/20/2016				0.0122	0.00232 (J)	0.00466 (J)	0.012	0.0026 (J)	
10/11/2016	<0.005	<0.005	0.00687 (J)				0.0135	0.00214 (J)	0.0531
10/12/2016				0.00839 (J)	<0.005	0.00394 (J)			
11/14/2016									
11/15/2016				0.00562 (J)	<0.005	0.00296 (J)	0.00938 (J)	<0.005	
1/3/2017									
1/4/2017				0.00655 (J)	<0.005	0.00448 (J)	0.00859 (J)	<0.005	
1/23/2017				0.0116	0.00203 (J)			<0.005	
1/24/2017	<0.005	<0.005	0.00522 (J)			0.00259 (J)			0.0539
1/25/2017									
1/26/2017							0.0104		
5/9/2017	<0.005		0.00646 (J)	0.0167	<0.005	<0.005	0.0119	<0.005	0.057
5/10/2017		<0.005							
6/27/2017	<0.005			0.0109	<0.005	<0.005	0.0106	<0.005	0.0664
6/28/2017		<0.005	0.00721 (J)						
2/27/2018	<0.005	<0.005		0.00278 (J)	<0.005	<0.005	0.0027 (J)	<0.005	0.0652
2/28/2018			0.00771 (J)						
6/4/2018									0.0758
6/5/2018	<0.005	<0.005		0.00223 (J)	<0.005	<0.005	0.00317 (J)	<0.005	
6/6/2018			0.00712 (J)						
11/5/2018									
11/6/2018			0.00791	0.00202 (J)	<0.005	<0.005	0.00367 (J)	<0.005	0.0898
11/7/2018	<0.005	<0.005							
3/26/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
3/27/2019			0.0114						0.176
9/9/2019									
9/10/2019	<0.005	<0.005	0.0127						0.104
9/11/2019				<0.005	<0.005	<0.005	0.00265 (J)	<0.005	
4/20/2020									
4/21/2020	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	0.206
4/22/2020		<0.005	0.0133						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						0.0129	0.00869 (J)	0.0135	
2/17/2016	0.00989 (J)	0.00507 (J)	0.0216	<0.005	<0.005				0.0504
4/12/2016		0.0047 (J)	0.0205	<0.005					
4/13/2016	0.0106				0.00218 (J)	0.0139	0.00936 (J)	0.0155	0.0448
5/31/2016			0.0196	0.00389 (J)	0.00328 (J)			0.0146	0.0405
6/1/2016	0.011	0.00372 (J)				0.0139	0.00976 (J)		
8/15/2016	0.0117	0.0039 (J)							
8/16/2016								0.016	0.0464
8/17/2016			0.0169	0.00234 (J)	0.00217 (J)	0.0138	0.012		
9/19/2016									
9/20/2016									
10/11/2016	0.0117	0.00415 (J)	0.0157	0.00202 (J)					
10/12/2016					0.00225 (J)	0.0138	0.0127	0.0154	0.0489
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	0.00863 (J)	0.00383 (J)	0.00858 (J)	<0.005					
1/25/2017					<0.005	0.0115	0.0109	0.0139	0.0417
1/26/2017									
5/9/2017	0.00975 (J)	0.00396 (J)	0.00755 (J)						0.0471
5/10/2017				<0.005	<0.005	0.0125	0.0129	0.0144	
6/27/2017									
6/28/2017	0.0102	0.00336 (J)	0.0069 (J)	<0.005	<0.005	0.0137	0.0125	0.0134	0.0664
2/27/2018	0.00924 (J)	0.00442 (J)	0.00471 (J)	<0.005	<0.005	0.00698 (J)	0.013	0.0148	0.0438
2/28/2018									
6/4/2018	0.00866 (J)	0.0038 (J)							
6/5/2018			0.00481 (J)	0.00237 (J)	<0.005	0.00478 (J)	0.0113	0.0139	0.036
6/6/2018									
11/5/2018									0.0171
11/6/2018	0.0101	0.00439 (J)	0.00545						
11/7/2018				0.00258 (J)	0.00277 (J)	0.00651	0.0145	0.015	
3/26/2019				0.00223 (J)	0.0024 (J)	0.00445 (J)	0.0167		
3/27/2019	0.0131	0.00463 (J)	0.00614					0.014	0.0292
9/9/2019	0.0154	0.00413 (J)							
9/10/2019				0.00306 (J)	0.0034 (J)	0.0108	0.0177	0.0191	0.02
9/11/2019			0.00767						
4/20/2020		0.00396 (J)							
4/21/2020	0.0194		0.00601	0.00228 (J)	0.00206 (J)	0.0111	0.0166		
4/22/2020								0.0233	0.0319

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	<0.005	<0.005	0.00732 (J)					<0.005	
2/17/2016				0.0169	0.016	0.0101	0.0227		
4/12/2016		<0.005	0.00785 (J)	0.0158			0.0209		
4/13/2016	<0.005				0.0139	0.0109		<0.005	
5/31/2016	<0.005	<0.005	0.00712 (J)	0.014					
6/1/2016					0.0117	0.0134	0.02	<0.005	
8/15/2016					0.0133	0.0134	0.0225		
8/16/2016	<0.005	<0.005		0.0153				<0.005	<0.005
8/17/2016			0.00545 (J)						
9/19/2016									0.00242 (J)
9/20/2016									
10/11/2016				0.0162					0.0024 (J)
10/12/2016	<0.005	<0.005	0.00497 (J)		0.0147	0.0204	0.0206	<0.005	
11/14/2016									<0.005
11/15/2016									
1/3/2017									0.00217 (J)
1/4/2017									
1/23/2017									
1/24/2017				0.0132	0.0122	0.0157	0.015		0.00239 (J)
1/25/2017	<0.005	<0.005	0.00454 (J)					<0.005	
1/26/2017									
5/9/2017	<0.005	<0.005	0.00488 (J)					<0.005	
5/10/2017				0.014	0.0133	0.0179	0.0141		<0.005
6/27/2017				0.0163	0.0141	0.0166	0.0144		<0.005
6/28/2017	<0.005	<0.005	0.00805 (J)					<0.005	
2/27/2018			0.016						<0.005
2/28/2018	<0.005	<0.005		0.0157	0.014	0.0251	0.0136	<0.005	
6/4/2018									
6/5/2018				0.0148	0.0114	0.0456	0.0138		<0.005
6/6/2018	<0.005	<0.005	0.024					<0.005	
11/5/2018	<0.005	<0.005						<0.005	
11/6/2018				0.0158	0.0141	0.0321	0.0158		<0.005
11/7/2018			0.0124						
3/26/2019	<0.005	<0.005		0.0184	0.0177	0.0192	0.0161	<0.005	
3/27/2019			0.0303						<0.005
9/9/2019						0.0121	0.0174		
9/10/2019	<0.005		0.0278	0.0201	0.0162			<0.005	
9/11/2019		<0.005							<0.005
4/20/2020		<0.005		0.0189	0.0146				
4/21/2020	<0.005		0.0339			0.0158	0.0173	<0.005	
4/22/2020									<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.005	0.00923 (J)
8/17/2016		
9/19/2016	<0.005	0.00539 (J)
9/20/2016		
10/11/2016	<0.005	0.00506 (J)
10/12/2016		
11/14/2016	<0.005	0.00399 (J)
11/15/2016		
1/3/2017	<0.005	0.0037 (J)
1/4/2017		
1/23/2017		
1/24/2017	<0.005	
1/25/2017		0.0077 (J)
1/26/2017		
5/9/2017		
5/10/2017	<0.005	0.00291 (J)
6/27/2017	<0.005	0.00247 (J)
6/28/2017		
2/27/2018	<0.005	<0.005
2/28/2018		
6/4/2018		
6/5/2018	<0.005	<0.005
6/6/2018		
11/5/2018	<0.005	
11/6/2018		<0.005
11/7/2018		
3/26/2019		
3/27/2019	<0.005	<0.005
9/9/2019		
9/10/2019		
9/11/2019	<0.005	<0.005
4/20/2020		
4/21/2020		
4/22/2020	<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					<0.005				
1/15/2019				0.0407		0.0173	0.0203	0.0044 (J)	0.0281
1/16/2019		<0.005							
1/17/2019	0.033								
1/30/2019			<0.005						
9/10/2019	0.0131						0.0139		
9/11/2019		<0.005	<0.005		0.00363 (J)	0.0194		0.00897	0.0449
4/20/2020							0.0132		
4/21/2020		<0.005							0.0359
4/22/2020	0.00675		<0.005	0.0327	<0.005	0.0192			
4/29/2020								0.00777	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	0.0131	0.106						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	0.0143	0.106						
4/20/2020		0.324	0.119	0.0203	0.0862			0.00451 (J)
4/21/2020	0.0162					0.00236 (J)	0.00799	
4/22/2020								
4/29/2020								

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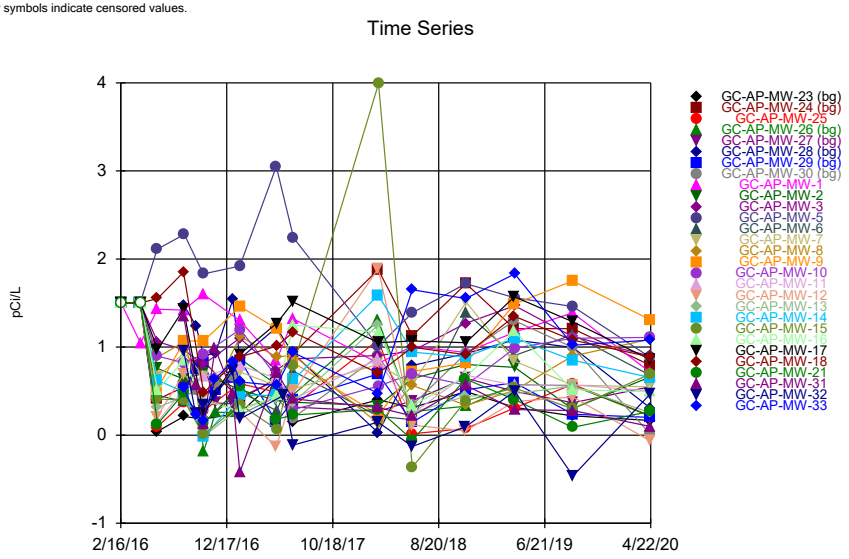
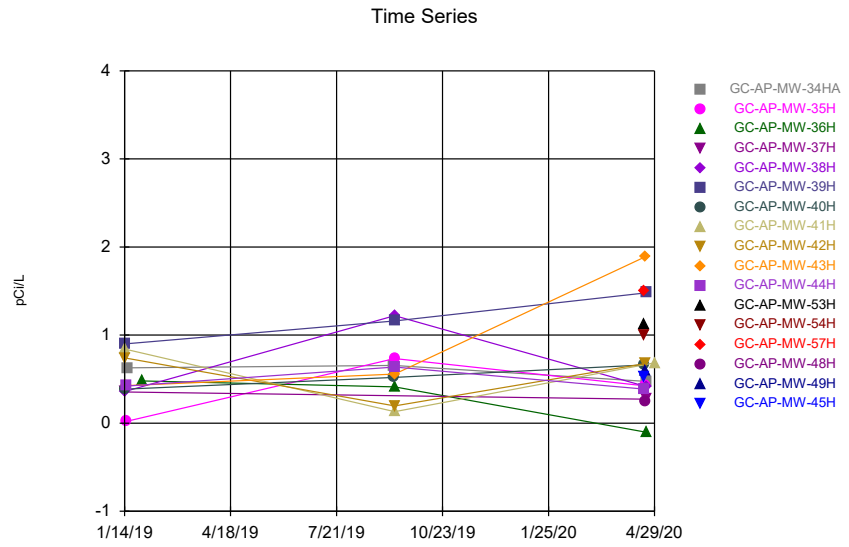
Hollow symbols indicate censored values.



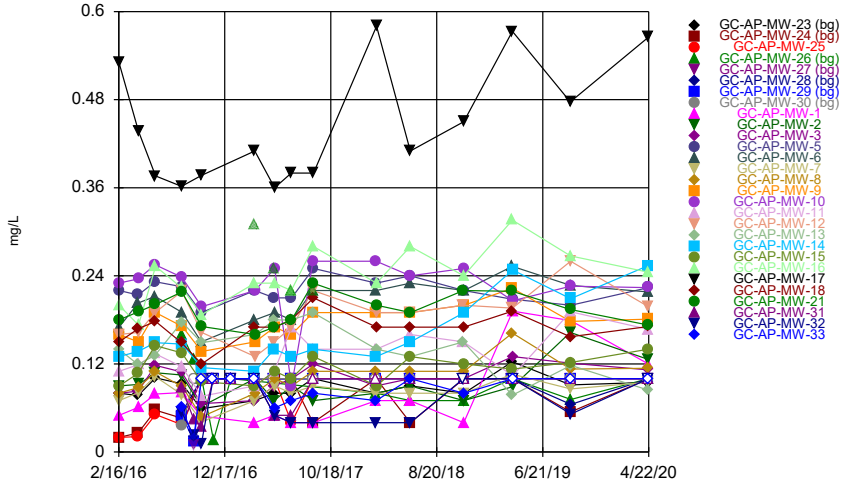
Constituent: Combined Radium 226 + 228 Analysis Run 7/13/2020 3:35 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG



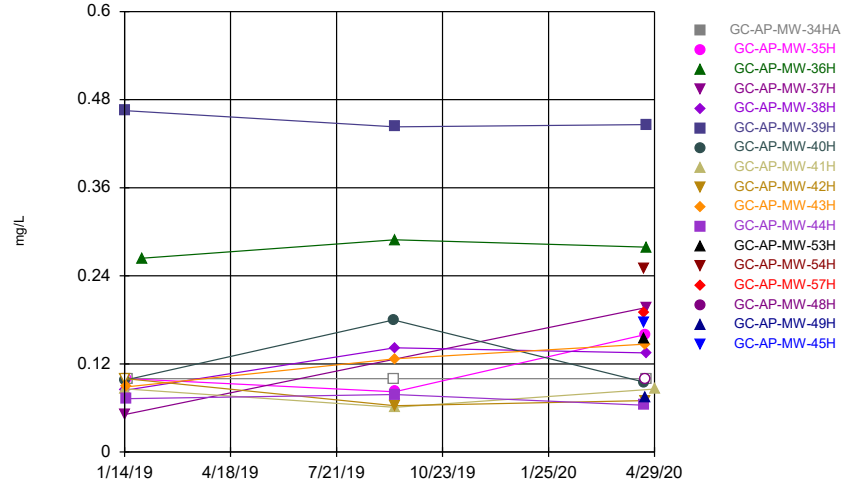
Constituent: Combined Radium 226 + 228 Analysis Run 7/13/2020 3:35 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 7/13/2020 3:35 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 7/13/2020 3:35 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<3	<3	<3						<3
4/12/2016	<3	<3	<3						
4/13/2016									1.0468 (U)
5/31/2016									
6/1/2016	0.044 (U)	0.407	0.1 (U)						1.43
8/15/2016									1.42
8/16/2016	0.213 (U)	0.547 (U)					0.522	0.434 (U)	
8/17/2016			0.372 (U)	0.66	0.386 (U)	1.47			
9/19/2016									
9/20/2016				0.582	0.794	1.24	0.746	0.51	
10/11/2016	0.184 (U)	0.845	0.277 (U)				0.819	0.166 (U)	1.6
10/12/2016				-0.183 (U)	0.81	0.899			
11/14/2016									
11/15/2016				0.262 (U)	0.366 (U)	0.933	0.516	0.589	
1/3/2017									
1/4/2017				0.255 (U)	0.356 (U)	1.54	0.648 (U)	0.659	
1/23/2017				0.871	0.429 (U)			0.227 (U)	
1/24/2017	0.251 (U)	0.403 (U)	0.585			0.868			1.3
1/25/2017									
1/26/2017							0.852		
5/9/2017	0.631		0.489	0.575	0.62	1.22	0.148 (U)	0.436 (U)	0.844
5/10/2017		0.645							
5/31/2017									
6/27/2017	0.145 (U)			0.459	0.319 (U)	0.925	0.393	0.197 (U)	1.32
6/28/2017		0.93	0.333						
2/27/2018	0.402 (U)	1.88	1.08	1.3	0.271 (U)	0.0271 (U)	0.695	0.896	
2/28/2018									0.815
6/4/2018									1.01
6/5/2018	0.313 (U)	1.13		0.269 (U)	0.391	0.792	0.145 (U)	0.342 (U)	
6/6/2018			0.016 (U)						
11/5/2018									
11/6/2018			0.0751 (U)	0.328 (U)	0.646	0.926	0.513 (U)	0.928	0.938
11/7/2018	0.496 (U)	1.72							
3/26/2019	0.315 (U)	1.21		0.571	0.498	1.08	0.598	1.3	
3/27/2019			0.309 (U)						1.17
9/9/2019									
9/10/2019	0.219 (U)	1.21	0.578						1.39
9/11/2019				0.561	0.368 (U)	0.995	0.237 (U)	0.995	
4/20/2020									
4/21/2020	0.166 (U)			0.215 (U)	0.55	0.307 (U)	0.201 (U)	0.00976 (U)	0.712
4/22/2020		0.791	0.218 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<3	<3	<3	
2/17/2016	<3	<3	<3	<3	<3				<3
4/12/2016		<3	<3	<3					
4/13/2016	<3				<3	<3	<3	<3	<3
5/31/2016			2.11	0.453 (U)	0.658			0.899	0.145 (U)
6/1/2016	0.758	1.06				0.884	0.532		
8/15/2016	0.638	0.972							
8/16/2016								0.82	0.521 (U)
8/17/2016			2.28	0.381 (U)	0.936	1.06	1.07		
9/19/2016									
9/20/2016									
10/11/2016	0.701	0.802	1.83	0.139 (U)					
10/12/2016					0.668	0.269 (U)	1.07	0.92	0.669 (U)
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	0.515 (U)	1.1	1.92	0.496					
1/25/2017					0.718	1.12	1.46	1.2	0.789
1/26/2017									
5/9/2017	0.393 (U)	0.74	3.05						0.647
5/10/2017				0.278 (U)	0.56	0.887	1.21	0.665	
5/31/2017									
6/27/2017									
6/28/2017	0.374	0.867	2.24	0.724	0.526	0.908	0.821	0.29 (U)	0.415
2/27/2018	0.334 (U)	0.905	1.01	0.214 (U)	0.803				0.864
2/28/2018						0.131 (U)	0.232 (U)	0.558	
6/4/2018	0.64	0.954							
6/5/2018			1.39	0.176 (U)	0.577	0.564	0.722	0.698	0.244 (U)
6/6/2018									
11/5/2018									0.682
11/6/2018	0.803	1.27	1.72						
11/7/2018				1.39	1.51	0.34 (U)	0.82	0.568	
3/26/2019				0.904	0.841	0.507	1.49		
3/27/2019	0.77	1.47	1.56					0.988	0.564
9/9/2019	0.3 (U)	1.12							
9/10/2019				1.14	0.569 (U)	0.898	1.75	1.1	0.57
9/11/2019			1.46						
4/20/2020		0.899							
4/21/2020	0.663 (U)		0.882	0.679 (U)	0.549 (U)	1.09	1.31		
4/22/2020								1.11	0.502 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	<3	<3	<3					<3	
2/17/2016				<3	<3	<3	<3		
4/12/2016		<3	<3	<3			<3		
4/13/2016	<3				<3	<3		<3	
5/31/2016	0.21 (U)	0.313 (U)	0.624	0.41 (U)					
6/1/2016					0.515	0.972	1.55	0.126 (U)	
8/15/2016					0.843	1.43	1.85		
8/16/2016	0.697	0.435 (U)		0.399 (U)				0.477	1.34
8/17/2016			0.49 (U)						
9/19/2016									0.561 (U)
9/20/2016									
10/11/2016				0.00389 (U)					0.118 (U)
10/12/2016	0.421 (U)	-0.0137 (U)	-0.0237 (U)		0.397 (U)	0.246 (U)	0.481	0.137 (U)	
11/14/2016									0.984
11/15/2016									
1/3/2017									0.473 (U)
1/4/2017									
1/23/2017									
1/24/2017				0.35 (U)	0.269 (U)	0.918	0.889		-0.422 (U)
1/25/2017	0.265 (U)	0.309 (U)	0.455 (U)					0.55	
1/26/2017									
5/9/2017	-0.132 (U)	0.42	0.451					0.182 (U)	
5/10/2017				0.0662 (U)	0.454	1.27	1.01		0.706
5/31/2017									
6/27/2017				0.793	1.25	1.51	1.17		0.412
6/28/2017	0.493	0.373	0.63					0.228 (U)	
2/27/2018	1.89	1.25	1.59				0.702	0.293 (U)	0.314 (U)
2/28/2018				3.99	1.17	1.05			
6/4/2018									
6/5/2018				-0.365 (U)	0.337 (U)	1.07	0.999		0.218 (U)
6/6/2018	0.114 (U)	0.258 (U)	0.943					-0.056 (U)	
11/5/2018	0.048 (U)	0.441 (U)						0.637	
11/6/2018				0.391 (U)	0.661	1.05	0.913		0.566 (U)
11/7/2018			0.888						
3/26/2019	0.381	0.471		0.535	1.18	1.57	1.35	0.405	
3/27/2019			1.1						0.29 (U)
9/9/2019						1.29	1.08		
9/10/2019	0.434 (U)		0.852	0.3 (U)	0.516 (U)			0.0889 (U)	
9/11/2019		0.557 (U)							0.28 (U)
4/20/2020		0.256 (U)		0.693	0.493 (U)				
4/21/2020	-0.0655 (U)		0.653			0.859	0.888	0.271 (U)	
4/22/2020									0.0983 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	0.951	0.534 (U)
8/17/2016		
9/19/2016	0.242 (U)	0.238 (U)
9/20/2016		
10/11/2016	0.34 (U)	0.158 (U)
10/12/2016		
11/14/2016	0.447 (U)	0.641
11/15/2016		
1/3/2017	0.729	0.834
1/4/2017		
1/23/2017		
1/24/2017	0.184 (U)	
1/25/2017		0.605
1/26/2017		
5/9/2017		
5/10/2017		0.563
5/31/2017	0.454	
6/27/2017	-0.111 (U)	0.937
6/28/2017		
2/27/2018	0.146 (U)	0.475
2/28/2018		
6/4/2018		
6/5/2018	-0.128 (U)	1.65
6/6/2018		
11/5/2018	0.0946 (U)	
11/6/2018		1.55
11/7/2018		
3/26/2019		
3/27/2019	0.5	1.83
9/9/2019		
9/10/2019		
9/11/2019	-0.464 (U)	1.02
4/20/2020		
4/21/2020		
4/22/2020	0.474 (U)	1.08

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					0.359 (U)				
1/15/2019				0.354 (U)		0.901	0.387 (U)	0.839	0.739
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)	0.195 (U)
4/20/2020							0.66		
4/21/2020		0.423 (U)							0.678
4/22/2020	0.473 (U)		-0.103 (U)	0.273 (U)	0.413 (U)	1.48			
4/29/2020								0.684	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	0.426 (U)	0.422 (U)						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	0.558 (U)	0.637 (U)						
4/20/2020		0.386 (U)	1.13	1	1.5			0.529
4/21/2020	1.89					0.251 (U)	0.594	
4/22/2020								
4/29/2020								

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	0.08 (J)	0.02 (J)	0.02 (J)						0.05 (J)
4/12/2016	0.077 (J)	0.026 (J)	0.021 (J)						
4/13/2016									0.061 (J)
5/31/2016									
6/1/2016	0.101 (J)	0.057 (J)	0.051 (J)						0.079 (J)
8/15/2016									0.081 (J)
8/16/2016	0.093 (J)	0.046 (J)					0.05 (J)	0.036 (J)	
8/17/2016			0.037 (J)	0.159 (J)	0.039 (J)	0.055 (J)			
9/19/2016									
9/20/2016				0.126 (J)	0.01 (o)	0.021 (o)	0.015 (J)	<0.1	
10/11/2016	0.059 (J)	<0.1	<0.1				<0.1	<0.1	0.049 (J)
10/12/2016				0.1 (J)	<0.1	<0.1			
11/14/2016									
11/15/2016				0.016 (J)	<0.1	<0.1	<0.1	<0.1	
1/3/2017									
1/4/2017				<0.1	<0.1	<0.1	<0.1	<0.1	
3/13/2017				0.31 (o)			<0.1		
3/14/2017	0.07 (J)	<0.1	<0.1		<0.1	<0.1		<0.1	0.04 (J)
3/15/2017									
5/9/2017	0.08 (J)		<0.1	0.25 (o)	<0.1	<0.1	<0.1	<0.1	0.05 (J)
5/10/2017		<0.1							
6/27/2017	0.08 (J)			0.22 (o)	<0.1	<0.1	<0.1	<0.1	0.04 (J)
6/28/2017		<0.1	0.04 (J)						
8/29/2017	0.1	0.04 (J)	<0.1	0.22 (o)	<0.1				
8/30/2017						<0.1	<0.1	<0.1	0.04 (J)
2/27/2018	0.08 (J)	<0.1		0.08 (J)	<0.1	<0.1	<0.1	<0.1	0.07 (J)
2/28/2018			<0.1						
6/4/2018									0.07 (J)
6/5/2018	0.09 (J)	0.04 (J)		0.07 (J)	<0.1	<0.1	<0.1	<0.1	
6/6/2018			<0.1						
11/5/2018									
11/6/2018			<0.1	0.07 (J)	<0.1	<0.1	<0.1	<0.1	0.04 (J)
11/7/2018	0.08 (J)	<0.1							
3/26/2019	0.123	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	
3/27/2019			<0.1						0.192
9/9/2019									
9/10/2019	0.0914 (J)	0.0545 (J)	<0.1						0.179
9/11/2019				0.0716 (J)	<0.1	0.0649 (J)	<0.1	<0.1	
4/20/2020									
4/21/2020	0.095 (J)			<0.1	<0.1	<0.1	<0.1	<0.1	0.12
4/22/2020		<0.1	<0.1						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						0.08 (J)	0.16 (J)	0.23 (J)	
2/17/2016	0.09 (J)	0.08 (J)	0.22 (J)	0.17 (J)	0.07 (J)				0.11 (J)
4/12/2016		0.083 (J)	0.214 (J)	0.203 (J)					
4/13/2016	0.092 (J)				0.081 (J)	0.088 (J)	0.15 (J)	0.236 (J)	0.119 (J)
5/31/2016			0.232 (J)	0.212 (J)	0.103 (J)			0.255 (J)	0.134 (J)
6/1/2016	0.108 (J)	0.118 (J)				0.109 (J)	0.19 (J)		
8/15/2016	0.105 (J)	0.109 (J)							
8/16/2016								0.238 (J)	0.116 (J)
8/17/2016			0.225 (J)	0.19 (J)	0.078 (J)	0.089 (J)	0.171 (J)		
9/19/2016									
9/20/2016									
10/11/2016	0.062 (J)	0.066 (J)	0.19 (J)	0.15 (J)					
10/12/2016					0.041 (J)	0.048 (J)	0.137 (J)	0.198 (J)	0.076 (J)
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	<0.1	0.07 (J)	0.22	0.18	0.07 (J)				0.09 (J)
3/15/2017						0.08 (J)	0.15	0.22	
5/9/2017	0.07 (J)	0.09 (J)	0.21						0.11
5/10/2017				0.19	0.09 (J)	0.1	0.17	0.25	
6/27/2017									
6/28/2017	0.09 (J)	0.1	0.21	0.18	0.08 (J)	0.09 (J)	0.16	0.09 (J)	0.17
8/29/2017				0.22	0.09 (J)	0.11	0.19	0.26	0.14
8/30/2017	0.07 (J)	0.12	0.25						
2/27/2018	0.08 (J)	0.09 (J)	0.23	0.22	0.08 (J)	0.11	0.19	0.26	0.14
2/28/2018									
6/4/2018	0.09 (J)	0.1							
6/5/2018			0.24	0.23	0.08 (J)	0.11	0.19	0.24	0.16
6/6/2018									
11/5/2018									0.15
11/6/2018	0.07 (J)	0.1	0.22						
11/7/2018				0.22	0.08 (J)	0.11	0.2	0.25	
3/26/2019				0.253	0.106	0.162	0.223		
3/27/2019	0.089 (J)	0.13	0.208					0.206	0.104
9/9/2019	0.163	0.121							
9/10/2019				0.227	0.086 (J)	0.113	0.178	0.226	0.191
9/11/2019			0.2						
4/20/2020		0.112							
4/21/2020	0.126		0.224	0.218	0.0951 (J)	0.114	0.181		
4/22/2020								0.224	0.167

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	0.16 (J)	0.14 (J)	0.13 (J)					0.18 (J)	
2/17/2016				0.09 (J)	0.2 (J)	0.53	0.15 (J)		
4/12/2016		0.119 (J)	0.137 (J)	0.107 (J)			0.168 (J)		
4/13/2016	0.163 (J)				0.173 (J)	0.437		0.191 (J)	
5/31/2016	0.19 (J)	0.132 (J)	0.149 (J)	0.145 (J)					
6/1/2016					0.253 (J)	0.376	0.178 (J)	0.201 (J)	
8/15/2016					0.224 (J)	0.362	0.149 (J)		
8/16/2016	0.219 (J)	0.177 (J)		0.135 (J)				0.218 (J)	0.087 (J)
8/17/2016			0.147 (J)						
9/19/2016									0.045 (J)
9/20/2016									
10/11/2016				0.096 (J)					0.034 (J)
10/12/2016	0.163 (J)	0.149 (J)	0.115 (J)		0.187 (J)	0.377	0.12 (J)	0.171 (J)	
11/14/2016									<0.1
11/15/2016									
1/3/2017									<0.1
1/4/2017									
3/13/2017									
3/14/2017			0.11	0.09 (J)	0.23	0.41	0.17		<0.1
3/15/2017	0.13	0.16						0.16	
5/9/2017	0.15	0.18	0.14					0.17	
5/10/2017				0.11	0.23	0.36	0.17		0.05 (J)
6/27/2017				0.1	0.22	0.38	0.18		0.05 (J)
6/28/2017	0.17	0.18	0.13					0.18	
8/29/2017	0.22	0.19	0.14					0.23	
8/30/2017				0.13	0.28	0.38	0.21		<0.1
2/27/2018			0.13						<0.1
2/28/2018	0.19	0.14		0.09 (J)	0.23	0.58	0.17	0.2	
6/4/2018									
6/5/2018				0.13	0.28	0.41	0.17		<0.1
6/6/2018	0.19	0.13	0.15					0.19	
11/5/2018	0.2	0.15						0.22	
11/6/2018				0.12	0.24	0.45	0.17		<0.1
11/7/2018			0.19						
3/26/2019	0.196	0.0775 (J)		0.113	0.316	0.573	0.192	0.219	
3/27/2019			0.248						<0.1
9/9/2019						0.477	0.157		
9/10/2019	0.26		0.209	0.122	0.267			0.194	
9/11/2019		0.118							<0.1
4/20/2020		0.0844 (J)		0.14	0.245				
4/21/2020	0.198		0.254			0.565	0.171	0.173	
4/22/2020									<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	0.054 (J)	0.061 (J)
8/17/2016		
9/19/2016	0.023 (J)	0.018 (J)
9/20/2016		
10/11/2016	0.011 (J)	<0.1
10/12/2016		
11/14/2016	<0.1	<0.1
11/15/2016		
1/3/2017	<0.1	<0.1
1/4/2017		
3/13/2017		
3/14/2017	<0.1	<0.1
3/15/2017		
5/9/2017		
5/10/2017	0.05 (J)	0.06 (J)
6/27/2017	0.04 (J)	0.07 (J)
6/28/2017		
8/29/2017		
8/30/2017	0.04 (J)	0.08 (J)
2/27/2018	0.04 (J)	0.07 (J)
2/28/2018		
6/4/2018		
6/5/2018	0.04 (J)	0.1
6/6/2018		
11/5/2018	<0.1	
11/6/2018		0.08 (J)
11/7/2018		
3/26/2019		
3/27/2019	<0.1	<0.1
9/9/2019		
9/10/2019		
9/11/2019	0.0518 (J)	<0.1
4/20/2020		
4/21/2020		
4/22/2020	<0.1	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					0.0841 (J)				
1/15/2019				0.0512 (J)		0.465	0.0981 (J)	0.0859 (J)	<0.1
1/16/2019		<0.1							
1/17/2019	<0.1								
1/30/2019			0.264						
9/10/2019	<0.1						0.18		
9/11/2019		0.082 (J)	0.289		0.142	0.443		0.0609 (J)	0.063 (J)
4/20/2020							0.0952 (J)		
4/21/2020		0.16							0.0701 (J)
4/22/2020	<0.1		0.279	0.197	0.135	0.446			
4/29/2020								0.0857 (J)	

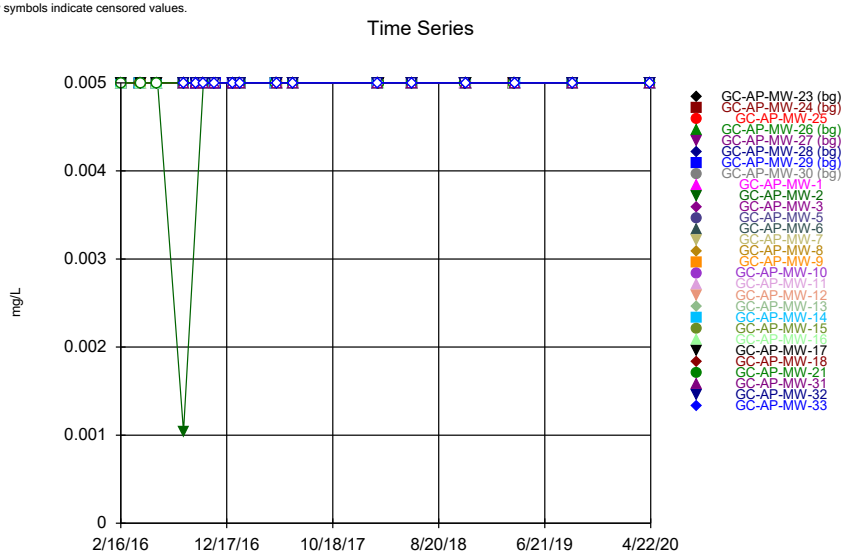
Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

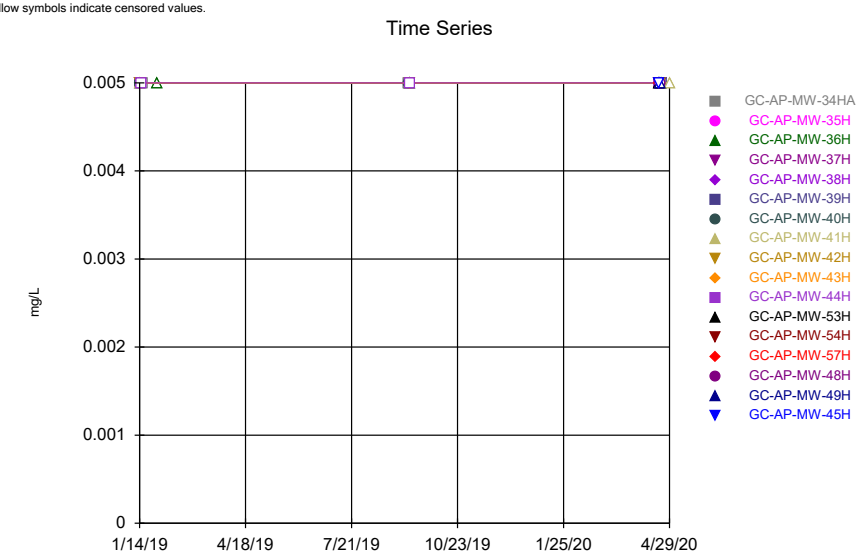
	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	0.0888 (J)	0.0727 (J)						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	0.127	0.0783 (J)						
4/20/2020		0.0638 (J)	0.154	0.25	0.189			0.176
4/21/2020	0.147					<0.1	0.075 (J)	
4/22/2020								
4/29/2020								

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



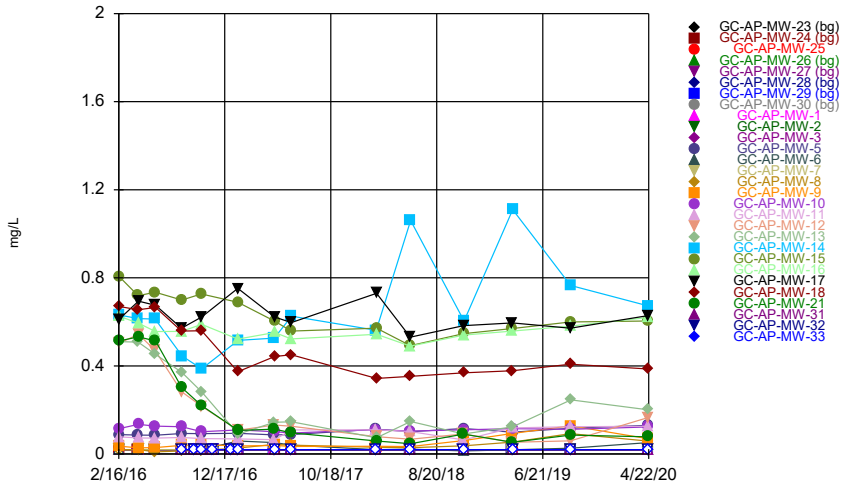
Constituent: Lead Analysis Run 7/13/2020 3:35 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



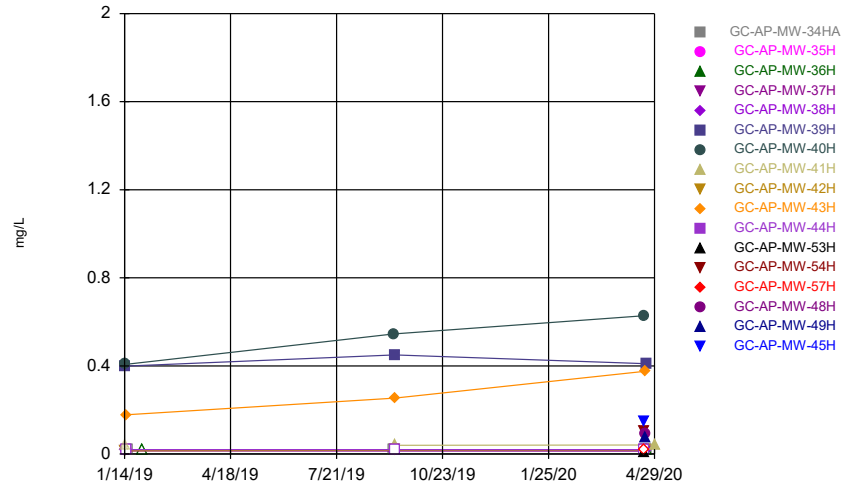
Constituent: Lead Analysis Run 7/13/2020 3:35 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 7/13/2020 3:35 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 7/13/2020 3:35 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Lead (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.005	<0.005	<0.005						<0.005
4/12/2016	<0.005	<0.005	<0.005						
4/13/2016									<0.005
5/31/2016									
6/1/2016	<0.005	<0.005	<0.005						<0.005
8/15/2016									<0.005
8/16/2016	<0.005	<0.005					<0.005	<0.005	
8/17/2016			<0.005	<0.005	<0.005	<0.005			
9/19/2016									
9/20/2016				<0.005	<0.005	<0.005	<0.005	<0.005	
10/11/2016	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005
10/12/2016				<0.005	<0.005	<0.005			
11/14/2016									
11/15/2016				<0.005	<0.005	<0.005	<0.005	<0.005	
1/3/2017									
1/4/2017				<0.005	<0.005	<0.005	<0.005	<0.005	
1/23/2017				<0.005	<0.005			<0.005	
1/24/2017	<0.005	<0.005	<0.005			<0.005			<0.005
1/25/2017									
1/26/2017							<0.005		
5/9/2017	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
5/10/2017		<0.005							
6/27/2017	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/28/2017		<0.005	<0.005						
2/27/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/28/2018			<0.005						
6/4/2018									<0.005
6/5/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
6/6/2018			<0.005						
11/5/2018									
11/6/2018			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/7/2018	<0.005	<0.005							
3/26/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
3/27/2019			<0.005						<0.005
9/9/2019									
9/10/2019	<0.005	<0.005	<0.005						<0.005
9/11/2019				<0.005	<0.005	<0.005	<0.005	<0.005	
4/20/2020									
4/21/2020	<0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/22/2020		<0.005	<0.005						

Time Series

Constituent: Lead (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.005	<0.005	<0.005	
2/17/2016	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005
4/12/2016		<0.005	<0.005	<0.005					
4/13/2016	<0.005				<0.005	<0.005	<0.005	<0.005	<0.005
5/31/2016			<0.005	<0.005	<0.005			<0.005	<0.005
6/1/2016	<0.005	<0.005				<0.005	<0.005		
8/15/2016	0.00104 (J)	<0.005							
8/16/2016								<0.005	<0.005
8/17/2016			<0.005	<0.005	<0.005	<0.005	<0.005		
9/19/2016									
9/20/2016									
10/11/2016	<0.005	<0.005	<0.005	<0.005					
10/12/2016					<0.005	<0.005	<0.005	<0.005	<0.005
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<0.005	<0.005	<0.005	<0.005					
1/25/2017					<0.005	<0.005	<0.005	<0.005	<0.005
1/26/2017									
5/9/2017	<0.005	<0.005	<0.005						<0.005
5/10/2017				<0.005	<0.005	<0.005	<0.005	<0.005	
6/27/2017									
6/28/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/27/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/28/2018									
6/4/2018	<0.005	<0.005							
6/5/2018			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/6/2018									
11/5/2018									<0.005
11/6/2018	<0.005	<0.005	<0.005						
11/7/2018				<0.005	<0.005	<0.005	<0.005	<0.005	
3/26/2019				<0.005	<0.005	<0.005	<0.005		
3/27/2019	<0.005	<0.005	<0.005					<0.005	<0.005
9/9/2019	<0.005	<0.005							
9/10/2019				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2019			<0.005						
4/20/2020		<0.005							
4/21/2020	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005		
4/22/2020								<0.005	<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	<0.005	<0.005	<0.005					<0.005	
2/17/2016				<0.005	<0.005	<0.005	<0.005		
4/12/2016		<0.005	<0.005	<0.005			<0.005		
4/13/2016	<0.005				<0.005	<0.005		<0.005	
5/31/2016	<0.005	<0.005	<0.005	<0.005					
6/1/2016					<0.005	<0.005	<0.005	<0.005	
8/15/2016					<0.005	<0.005	<0.005		
8/16/2016	<0.005	<0.005		<0.005				<0.005	<0.005
8/17/2016			<0.005						
9/19/2016									<0.005
9/20/2016									
10/11/2016				<0.005					<0.005
10/12/2016	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
11/14/2016									<0.005
11/15/2016									
1/3/2017									<0.005
1/4/2017									
1/23/2017									
1/24/2017				<0.005	<0.005	<0.005	<0.005		<0.005
1/25/2017	<0.005	<0.005	<0.005					<0.005	
1/26/2017									
5/9/2017	<0.005	<0.005	<0.005					<0.005	
5/10/2017				<0.005	<0.005	<0.005	<0.005		<0.005
6/27/2017				<0.005	<0.005	<0.005	<0.005		<0.005
6/28/2017	<0.005	<0.005	<0.005					<0.005	
2/27/2018			<0.005						<0.005
2/28/2018	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
6/4/2018									
6/5/2018				<0.005	<0.005	<0.005	<0.005		<0.005
6/6/2018	<0.005	<0.005	<0.005					<0.005	
11/5/2018	<0.005	<0.005						<0.005	
11/6/2018				<0.005	<0.005	<0.005	<0.005		<0.005
11/7/2018			<0.005						
3/26/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
3/27/2019			<0.005						<0.005
9/9/2019						<0.005	<0.005		
9/10/2019	<0.005		<0.005	<0.005	<0.005			<0.005	
9/11/2019		<0.005							<0.005
4/20/2020		<0.005		<0.005	<0.005				
4/21/2020	<0.005		<0.005			<0.005	<0.005	<0.005	
4/22/2020									<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.005	<0.005
8/17/2016		
9/19/2016	<0.005	<0.005
9/20/2016		
10/11/2016	<0.005	<0.005
10/12/2016		
11/14/2016	<0.005	<0.005
11/15/2016		
1/3/2017	<0.005	<0.005
1/4/2017		
1/23/2017		
1/24/2017	<0.005	
1/25/2017		<0.005
1/26/2017		
5/9/2017		
5/10/2017	<0.005	<0.005
6/27/2017	<0.005	<0.005
6/28/2017		
2/27/2018	<0.005	<0.005
2/28/2018		
6/4/2018		
6/5/2018	<0.005	<0.005
6/6/2018		
11/5/2018	<0.005	
11/6/2018		<0.005
11/7/2018		
3/26/2019		
3/27/2019	<0.005	<0.005
9/9/2019		
9/10/2019		
9/11/2019	<0.005	<0.005
4/20/2020		
4/21/2020		
4/22/2020	<0.005	<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					<0.005				
1/15/2019				<0.005		<0.005	<0.005	<0.005	<0.005
1/16/2019		<0.005							
1/17/2019	<0.005								
1/30/2019			<0.005						
9/10/2019	<0.005						<0.005		
9/11/2019		<0.005	<0.005		<0.005	<0.005		<0.005	<0.005
4/20/2020							<0.005		
4/21/2020		<0.005							<0.005
4/22/2020	<0.005		<0.005	<0.005	<0.005	<0.005			
4/29/2020								<0.005	

Time Series

Constituent: Lead (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	<0.005	<0.005						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	<0.005	<0.005						
4/20/2020		<0.005	<0.005	<0.005	<0.005			<0.005
4/21/2020	<0.005					<0.005	<0.005	
4/22/2020								
4/29/2020								

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.02	<0.02	<0.02						<0.02
4/12/2016	<0.02	<0.02	<0.02						
4/13/2016									<0.02
5/31/2016									
6/1/2016	<0.02	<0.02	<0.02						<0.02
8/15/2016									<0.02
8/16/2016	<0.02	<0.02					<0.02	<0.02	
8/17/2016			<0.02	<0.02	<0.02	<0.02			
9/19/2016									
9/20/2016				<0.02	<0.02	<0.02	<0.02	<0.02	
10/11/2016	<0.02	<0.02	<0.02				<0.02	<0.02	0.0194 (J)
10/12/2016				<0.02	<0.02	<0.02			
11/14/2016									
11/15/2016				<0.02	<0.02	<0.02	<0.02	<0.02	
1/3/2017									
1/4/2017				<0.02	<0.02	<0.02	<0.02	<0.02	
1/23/2017				<0.02	<0.02			<0.02	
1/24/2017	<0.02	<0.02	<0.02			<0.02			<0.02
1/25/2017									
1/26/2017							<0.02		
5/9/2017	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
5/10/2017		<0.02							
6/27/2017	<0.02			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
6/28/2017		<0.02	<0.02						
2/27/2018	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/28/2018			<0.02						
6/4/2018									<0.02
6/5/2018	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	
6/6/2018			<0.02						
11/5/2018									
11/6/2018			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
11/7/2018	<0.02	<0.02							
3/26/2019	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	
3/27/2019			<0.02						<0.02
9/9/2019									
9/10/2019	<0.02	<0.02	<0.02						<0.02
9/11/2019				<0.02	<0.02	<0.02	<0.02	<0.02	
4/20/2020									
4/21/2020	<0.02			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
4/22/2020		<0.02	<0.02						

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.02	0.0359 (J)	0.115	
2/17/2016	<0.02	<0.02	0.0883	<0.02	<0.02				0.0777
4/12/2016		<0.02	0.0862	<0.02					
4/13/2016	<0.02				<0.02	<0.02	0.0276 (J)	0.135	0.073
5/31/2016			0.085	<0.02	<0.02			0.127	0.0721
6/1/2016	<0.02	<0.02				0.0101 (J)	0.0296 (J)		
8/15/2016	<0.02	<0.02							
8/16/2016								0.124	0.075
8/17/2016			0.093	<0.02	<0.02	0.0143 (J)	0.0398 (J)		
9/19/2016									
9/20/2016									
10/11/2016	<0.02	<0.02	0.0928	<0.02					
10/12/2016					<0.02	0.0166 (J)	0.0433 (J)	0.101	0.0703
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<0.02	<0.02	0.094	0.0591					
1/25/2017					<0.02	0.0272 (J)	0.0366 (J)	0.109	0.0683
1/26/2017									
5/9/2017	<0.02	<0.02	0.0865						0.0646
5/10/2017				0.0519	<0.02	0.0436 (J)	0.039 (J)	0.101	
6/27/2017									
6/28/2017	<0.02	<0.02	0.0879	0.0403 (J)	<0.02	0.0401 (J)	0.0345 (J)	0.0954	0.109
2/27/2018	<0.02	<0.02	0.113	0.0201 (J)	<0.02	0.0309 (J)	0.0349 (J)	0.111	0.11
2/28/2018									
6/4/2018	<0.02	<0.02							
6/5/2018			0.101	0.0218 (J)	<0.02	0.0286 (J)	0.0338 (J)	0.104	0.102
6/6/2018									
11/5/2018									0.0641
11/6/2018	<0.02	<0.02	0.116						
11/7/2018				0.0141 (J)	<0.02	0.0371	0.0616	0.11	
3/26/2019				0.0192 (J)	<0.02	0.0537	0.0931		
3/27/2019	<0.02	<0.02	0.0988					0.115	0.119
9/9/2019	<0.02	<0.02							
9/10/2019				0.0267	<0.02	0.0928	0.128	0.112	0.124
9/11/2019			0.117						
4/20/2020		<0.02							
4/21/2020	<0.02		0.13	0.0518	<0.02	0.0582	0.0693		
4/22/2020								0.123	0.126

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	0.502	0.51	0.632					0.513	
2/17/2016				0.806	0.626	0.612	0.67		
4/12/2016		0.508	0.615	0.719			0.655		
4/13/2016	0.544				0.594	0.694		0.532	
5/31/2016	0.47	0.454	0.613	0.735					
6/1/2016					0.556	0.675	0.666	0.513	
8/15/2016					0.557	0.571	0.558		
8/16/2016	0.282	0.371		0.699				0.301	<0.02
8/17/2016			0.444						
9/19/2016									<0.02
9/20/2016									
10/11/2016				0.727					<0.02
10/12/2016	0.217	0.282	0.387		0.589	0.622	0.56	0.22	
11/14/2016									<0.02
11/15/2016									
1/3/2017									<0.02
1/4/2017									
1/23/2017									
1/24/2017				0.689	0.522	0.752	0.374		<0.02
1/25/2017	0.108	0.0904	0.516					0.107	
1/26/2017									
5/9/2017	0.132	0.144	0.526					0.113	
5/10/2017				0.603	0.552	0.622	0.443		<0.02
6/27/2017				0.558	0.523	0.597	0.451		<0.02
6/28/2017	0.126	0.146	0.626					0.0962	
2/27/2018			0.562						<0.02
2/28/2018	0.0786	0.0738		0.571	0.544	0.73	0.343	0.0594	
6/4/2018									
6/5/2018				0.492	0.49	0.531	0.353		<0.02
6/6/2018	0.067	0.148	1.06					0.0469 (J)	
11/5/2018	0.0912	0.0914						0.0902	
11/6/2018				0.547	0.54	0.583	0.369		<0.02
11/7/2018			0.604						
3/26/2019	0.0532	0.123		0.57	0.558	0.595	0.378	0.0531	
3/27/2019			1.11						<0.02
9/9/2019						0.571	0.408		
9/10/2019	0.0598		0.765	0.6	0.581			0.0862	
9/11/2019		0.246							<0.02
4/20/2020		0.201		0.604	0.62				
4/21/2020	0.166		0.672			0.629	0.386	0.0782	
4/22/2020									<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.02	<0.02
8/17/2016		
9/19/2016	<0.02	<0.02
9/20/2016		
10/11/2016	<0.02	<0.02
10/12/2016		
11/14/2016	<0.02	<0.02
11/15/2016		
1/3/2017	<0.02	<0.02
1/4/2017		
1/23/2017		
1/24/2017	<0.02	
1/25/2017		<0.02
1/26/2017		
5/9/2017		
5/10/2017	<0.02	<0.02
6/27/2017	<0.02	<0.02
6/28/2017		
2/27/2018	<0.02	<0.02
2/28/2018		
6/4/2018		
6/5/2018	<0.02	<0.02
6/6/2018		
11/5/2018	<0.02	
11/6/2018		<0.02
11/7/2018		
3/26/2019		
3/27/2019	<0.02	<0.02
9/9/2019		
9/10/2019		
9/11/2019	<0.02	<0.02
4/20/2020		
4/21/2020		
4/22/2020	<0.02	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					<0.02				
1/15/2019				0.0141 (J)		0.399	0.407	0.0411 (NONE)	0.0146 (J)
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	0.0169 (J)
4/20/2020							0.628		
4/21/2020		<0.02							0.0174 (J)
4/22/2020	<0.02		<0.02	0.0134 (J)	<0.02	0.41			
4/29/2020								0.041	

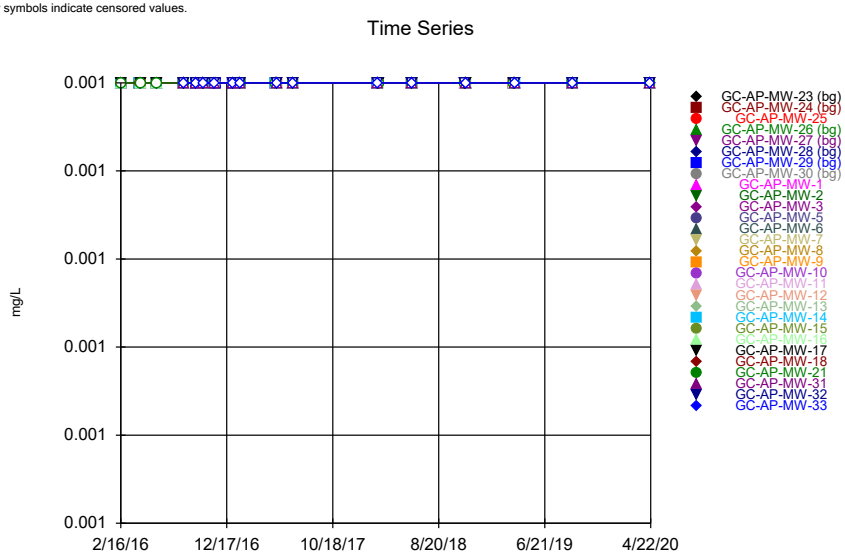
Time Series

Constituent: Lithium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

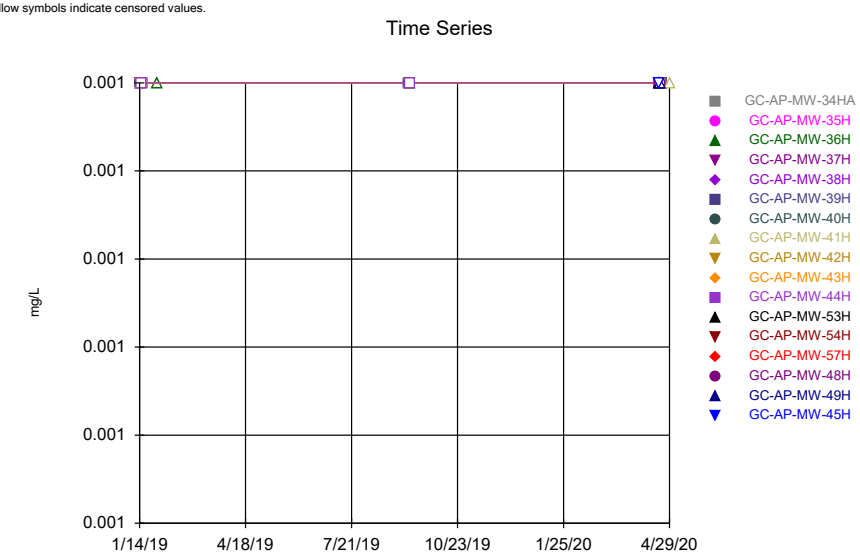
	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	0.178	<0.02						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	0.254	<0.02						
4/20/2020		<0.02	0.0107 (J)	0.101	<0.02			0.148
4/21/2020	0.376					0.0924	0.0733	
4/22/2020								
4/29/2020								

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



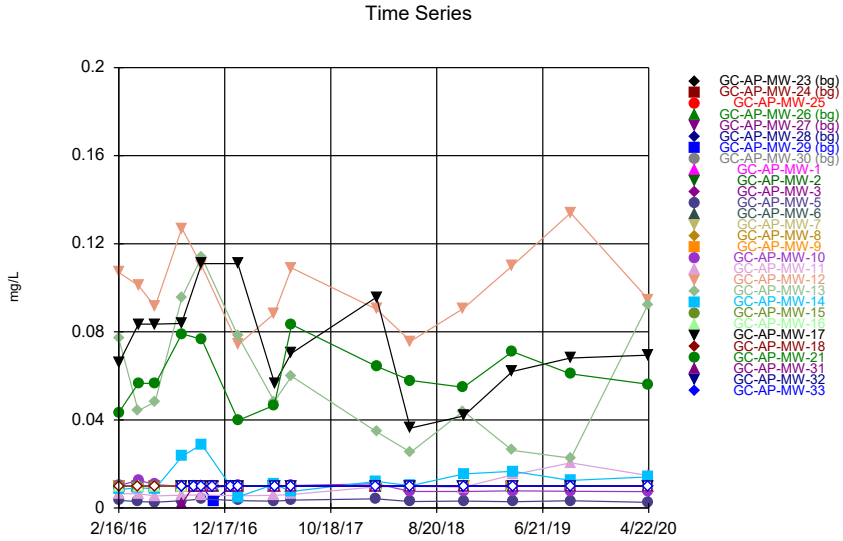
Constituent: Mercury Analysis Run 7/13/2020 3:36 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



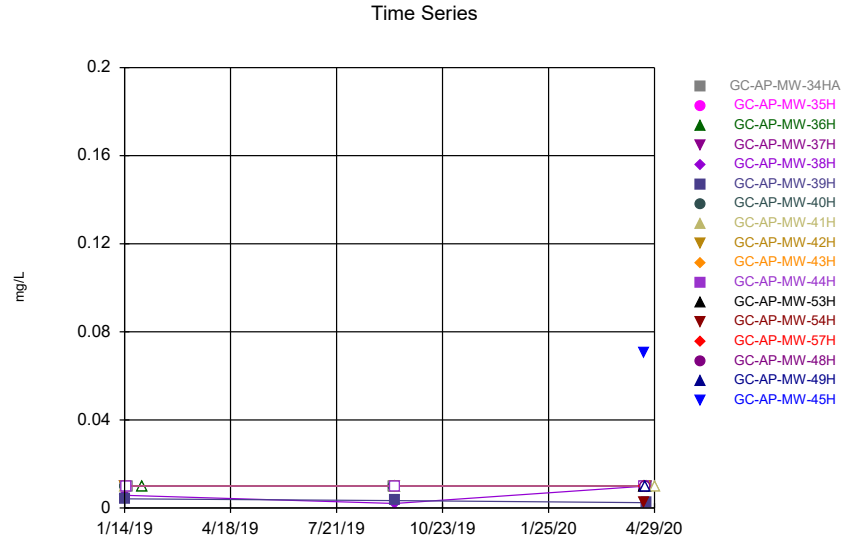
Constituent: Mercury Analysis Run 7/13/2020 3:36 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



Constituent: Molybdenum Analysis Run 7/13/2020 3:36 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.



Constituent: Molybdenum Analysis Run 7/13/2020 3:36 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
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
5/31/2016									
6/1/2016	<0.0005	<0.0005	<0.0005						<0.0005
8/15/2016									<0.0005
8/16/2016	<0.0005	<0.0005					<0.0005	<0.0005	
8/17/2016			<0.0005	<0.0005	<0.0005	<0.0005			
9/19/2016									
9/20/2016				<0.0005	<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	<0.0005			
11/14/2016									
11/15/2016				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1/3/2017									
1/4/2017				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1/23/2017				<0.0005	<0.0005			<0.0005	
1/24/2017	<0.0005	<0.0005	<0.0005			<0.0005			<0.0005
1/25/2017									
1/26/2017							<0.0005		
5/9/2017	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
5/10/2017		<0.0005							
6/27/2017	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/28/2017		<0.0005	<0.0005						
2/27/2018	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/28/2018			<0.0005						
6/4/2018									<0.0005
6/5/2018	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6/6/2018			<0.0005						
11/5/2018									
11/6/2018			<0.0005	<0.0005	<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	<0.0005	
3/27/2019			<0.0005						<0.0005
9/9/2019									
9/10/2019	<0.0005	<0.0005	<0.0005						<0.0005
9/11/2019				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
4/20/2020									
4/21/2020	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/22/2020		<0.0005	<0.0005						

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.0005	<0.0005	<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					
4/13/2016	<0.0005				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
5/31/2016			<0.0005	<0.0005	<0.0005			<0.0005	<0.0005
6/1/2016	<0.0005	<0.0005				<0.0005	<0.0005		
8/15/2016	<0.0005	<0.0005							
8/16/2016								<0.0005	<0.0005
8/17/2016			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
9/19/2016									
9/20/2016									
10/11/2016	<0.0005	<0.0005	<0.0005	<0.0005					
10/12/2016					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<0.0005	<0.0005	<0.0005	<0.0005					
1/25/2017					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/26/2017									
5/9/2017	<0.0005	<0.0005	<0.0005						<0.0005
5/10/2017				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6/27/2017									
6/28/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/27/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/28/2018									
6/4/2018	<0.0005	<0.0005							
6/5/2018			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/6/2018									
11/5/2018									<0.0005
11/6/2018	<0.0005	<0.0005	<0.0005						
11/7/2018				<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	<0.0005
9/9/2019	<0.0005	<0.0005							
9/10/2019				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/11/2019			<0.0005						
4/20/2020		<0.0005							
4/21/2020	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
4/22/2020								<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
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			<0.0005		
4/13/2016	<0.0005				<0.0005	<0.0005		<0.0005	
5/31/2016	<0.0005	<0.0005	<0.0005	<0.0005					
6/1/2016					<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				<0.0005	<0.0005
8/17/2016			<0.0005						
9/19/2016									<0.0005
9/20/2016									
10/11/2016				<0.0005					<0.0005
10/12/2016	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	
11/14/2016									<0.0005
11/15/2016									
1/3/2017									<0.0005
1/4/2017									
1/23/2017									
1/24/2017				<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
1/25/2017	<0.0005	<0.0005	<0.0005					<0.0005	
1/26/2017									
5/9/2017	<0.0005	<0.0005	<0.0005					<0.0005	
5/10/2017				<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
6/27/2017				<0.0005	<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
2/28/2018	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6/4/2018									
6/5/2018				<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
6/6/2018	<0.0005	<0.0005	<0.0005					<0.0005	
11/5/2018	<0.0005	<0.0005						<0.0005	
11/6/2018				<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
11/7/2018			<0.0005						
3/26/2019	<0.0005	<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		
9/10/2019	<0.0005		<0.0005	<0.0005	<0.0005			<0.0005	
9/11/2019		<0.0005							<0.0005
4/20/2020		<0.0005		<0.0005	<0.0005				
4/21/2020	<0.0005		<0.0005			<0.0005	<0.0005	<0.0005	
4/22/2020									<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.0005	<0.0005
8/17/2016		
9/19/2016	<0.0005	<0.0005
9/20/2016		
10/11/2016	<0.0005	<0.0005
10/12/2016		
11/14/2016	<0.0005	<0.0005
11/15/2016		
1/3/2017	<0.0005	<0.0005
1/4/2017		
1/23/2017		
1/24/2017	<0.0005	
1/25/2017		<0.0005
1/26/2017		
5/9/2017		
5/10/2017	<0.0005	<0.0005
6/27/2017	<0.0005	<0.0005
6/28/2017		
2/27/2018	<0.0005	<0.0005
2/28/2018		
6/4/2018		
6/5/2018	<0.0005	<0.0005
6/6/2018		
11/5/2018	<0.0005	
11/6/2018		<0.0005
11/7/2018		
3/26/2019		
3/27/2019	<0.0005	<0.0005
9/9/2019		
9/10/2019		
9/11/2019	<0.0005	<0.0005
4/20/2020		
4/21/2020		
4/22/2020	<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					<0.0005				
1/15/2019				<0.0005		<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	<0.0005
4/20/2020							<0.0005		
4/21/2020		<0.0005							<0.0005
4/22/2020	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005			
4/29/2020								<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	<0.0005	<0.0005						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	<0.0005	<0.0005						
4/20/2020		<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
4/21/2020	<0.0005					<0.0005	<0.0005	
4/22/2020								
4/29/2020								

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.01	<0.01	<0.01						<0.01
4/12/2016	<0.01	<0.01	<0.01						
4/13/2016									<0.01
5/31/2016									
6/1/2016	<0.01	<0.01	<0.01						<0.01
8/15/2016									<0.01
8/16/2016	<0.01	<0.01					<0.01	<0.01	
8/17/2016			<0.01	<0.01	<0.01	<0.01			
9/19/2016									
9/20/2016				<0.01	<0.01	<0.01	<0.01	<0.01	
10/11/2016	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01
10/12/2016				<0.01	<0.01	<0.01			
11/14/2016									
11/15/2016				<0.01	<0.01	<0.01	0.00308 (J)	<0.01	
1/3/2017									
1/4/2017				<0.01	<0.01	<0.01	<0.01	<0.01	
1/23/2017				<0.01	<0.01			<0.01	
1/24/2017	<0.01	<0.01	<0.01			<0.01			<0.01
1/25/2017									
1/26/2017							<0.01		
5/9/2017	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
5/10/2017		<0.01							
6/27/2017	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6/28/2017		<0.01	<0.01						
2/27/2018	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/28/2018			<0.01						
6/4/2018									<0.01
6/5/2018	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
6/6/2018			<0.01						
11/5/2018									
11/6/2018			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/7/2018	<0.01	<0.01							
3/26/2019	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	
3/27/2019			<0.01						<0.01
9/9/2019									
9/10/2019	<0.01	<0.01	<0.01						<0.01
9/11/2019				<0.01	<0.01	<0.01	<0.01	<0.01	
4/20/2020									
4/21/2020	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/22/2020		<0.01	<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.01	<0.01	0.0101	
2/17/2016	<0.01	<0.01	0.00347 (J)	<0.01	<0.01				0.00651 (J)
4/12/2016		<0.01	0.00297 (J)	<0.01					
4/13/2016	<0.01				<0.01	<0.01	<0.01	0.0127	0.00646 (J)
5/31/2016			0.00261 (J)	<0.01	<0.01			0.0106	0.00546 (J)
6/1/2016	<0.01	<0.01				<0.01	<0.01		
8/15/2016	<0.01	<0.01							
8/16/2016								0.00991 (J)	0.00582 (J)
8/17/2016			0.0033 (J)	<0.01	<0.01	<0.01	<0.01		
9/19/2016									
9/20/2016									
10/11/2016	<0.01	<0.01	0.0041 (J)	<0.01					
10/12/2016					<0.01	<0.01	<0.01	0.00919 (J)	0.00589 (J)
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<0.01	<0.01	0.00336 (J)	<0.01					
1/25/2017					<0.01	<0.01	<0.01	0.0101	0.00556 (J)
1/26/2017									
5/9/2017	<0.01	<0.01	0.0031 (J)						0.0058 (J)
5/10/2017				<0.01	<0.01	<0.01	<0.01	0.00984 (J)	
6/27/2017									
6/28/2017	<0.01	<0.01	0.00356 (J)	<0.01	<0.01	<0.01	<0.01	0.0102	0.00616 (J)
2/27/2018	<0.01	<0.01	0.0042 (J)	<0.01	<0.01	<0.01	<0.01	0.011	0.00962 (J)
2/28/2018									
6/4/2018	<0.01	<0.01							
6/5/2018			0.00293 (J)	<0.01	<0.01	<0.01	<0.01	0.00752 (J)	0.00984 (J)
6/6/2018									
11/5/2018									0.00944 (J)
11/6/2018	<0.01	<0.01	0.00318 (J)						
11/7/2018				<0.01	<0.01	<0.01	<0.01	0.00748 (J)	
3/26/2019				<0.01	<0.01	<0.01	<0.01		
3/27/2019	<0.01	<0.01	0.00284 (J)					0.00778 (J)	0.0151
9/9/2019	<0.01	<0.01							
9/10/2019				<0.01	<0.01	<0.01	<0.01	0.00757 (J)	0.0205
9/11/2019			0.00328 (J)						
4/20/2020		<0.01							
4/21/2020	<0.01		0.00255 (J)	<0.01	<0.01	<0.01	<0.01		
4/22/2020								0.00747 (J)	0.0147

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	0.107	0.0769	0.00839 (J)					0.0433	
2/17/2016				<0.01	<0.01	0.066	<0.01		
4/12/2016		0.0442	0.00918 (J)	<0.01			<0.01		
4/13/2016	0.101				<0.01	0.0835		0.0567	
5/31/2016	0.0915	0.0481	0.00877 (J)	<0.01					
6/1/2016					<0.01	0.0835	<0.01	0.0565	
8/15/2016					<0.01	0.0838	<0.01		
8/16/2016	0.127	0.0956		<0.01				0.0791	0.00201 (J)
8/17/2016			0.0236						
9/19/2016									<0.01
9/20/2016									
10/11/2016				<0.01					<0.01
10/12/2016	0.11	0.114	0.0289		<0.01	0.111	<0.01	0.0767	
11/14/2016									<0.01
11/15/2016									
1/3/2017									<0.01
1/4/2017									
1/23/2017									
1/24/2017				<0.01	<0.01	0.111	<0.01		<0.01
1/25/2017	0.0741	0.078	0.00501 (J)					0.0398	
1/26/2017									
5/9/2017	0.0883	0.0484	0.0108					0.0467	
5/10/2017				<0.01	<0.01	0.0566	<0.01		<0.01
6/27/2017				<0.01	<0.01	0.0702	<0.01		<0.01
6/28/2017	0.109	0.0598	0.00752 (J)					0.0833	
2/27/2018			0.0121						<0.01
2/28/2018	0.0903	0.0346		<0.01	<0.01	0.0957	<0.01	0.0643	
6/4/2018									
6/5/2018				<0.01	<0.01	0.0363	<0.01		<0.01
6/6/2018	0.0757	0.0253	0.0101					0.0579	
11/5/2018	0.0906	0.044						0.0548	
11/6/2018				<0.01	<0.01	0.0418	<0.01		<0.01
11/7/2018			0.0155						
3/26/2019	0.11	0.0262		<0.01	<0.01	0.062	<0.01	0.071	
3/27/2019			0.0167						<0.01
9/9/2019						0.0681	<0.01		
9/10/2019	0.134		0.0125	<0.01	<0.01			0.0609	
9/11/2019		0.0226							<0.01
4/20/2020		0.0924		<0.01	<0.01				
4/21/2020	0.0947		0.0141			0.0694	<0.01	0.0562	
4/22/2020									<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.01	<0.01
8/17/2016		
9/19/2016	<0.01	<0.01
9/20/2016		
10/11/2016	<0.01	<0.01
10/12/2016		
11/14/2016	<0.01	<0.01
11/15/2016		
1/3/2017	<0.01	<0.01
1/4/2017		
1/23/2017		
1/24/2017	<0.01	
1/25/2017		<0.01
1/26/2017		
5/9/2017		
5/10/2017	<0.01	<0.01
6/27/2017	<0.01	<0.01
6/28/2017		
2/27/2018	<0.01	<0.01
2/28/2018		
6/4/2018		
6/5/2018	<0.01	<0.01
6/6/2018		
11/5/2018	<0.01	
11/6/2018		<0.01
11/7/2018		
3/26/2019		
3/27/2019	<0.01	<0.01
9/9/2019		
9/10/2019		
9/11/2019	<0.01	<0.01
4/20/2020		
4/21/2020		
4/22/2020	<0.01	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					0.00574 (J)				
1/15/2019				<0.01		0.00419 (J)	<0.01	<0.01	<0.01
1/16/2019		<0.01							
1/17/2019	<0.01								
1/30/2019			<0.01						
9/10/2019	<0.01						<0.01		
9/11/2019		<0.01	<0.01		0.00203 (J)	0.00338 (J)		<0.01	<0.01
4/20/2020							<0.01		
4/21/2020		<0.01							<0.01
4/22/2020	<0.01		<0.01	<0.01	<0.01	0.00246 (J)			
4/29/2020								<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	<0.01	<0.01						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	<0.01	<0.01						
4/20/2020		<0.01	<0.01	0.00223 (J)	<0.01			0.0703
4/21/2020	<0.01					<0.01	<0.01	
4/22/2020								
4/29/2020								

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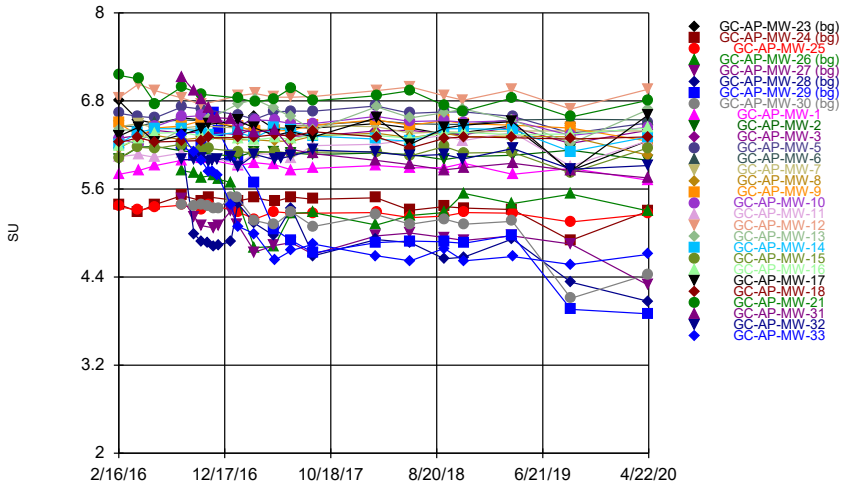
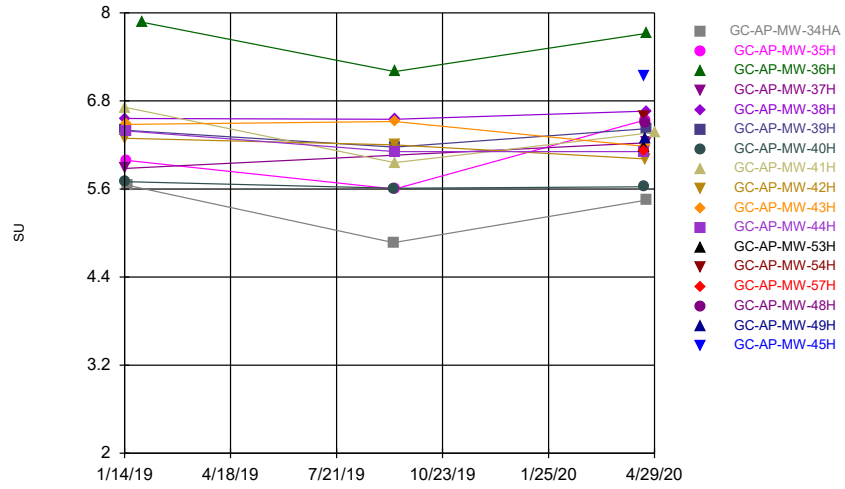
Time Series



Constituent: pH Analysis Run 7/13/2020 3:36 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

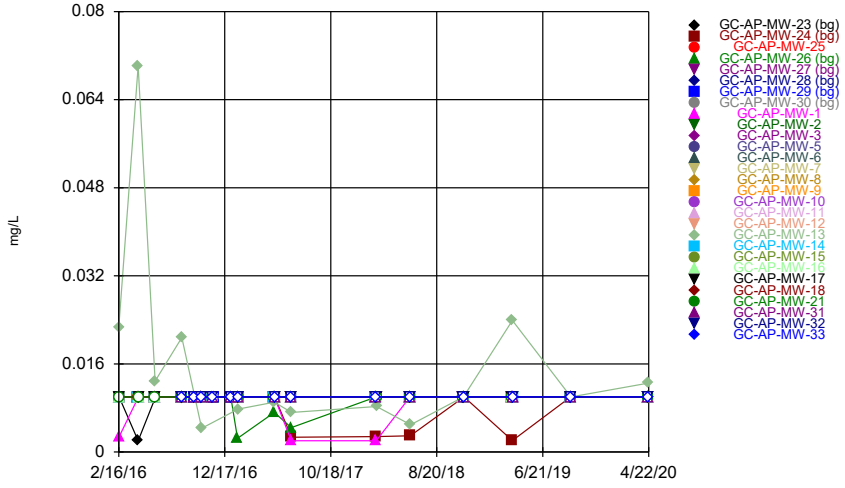
Time Series



Constituent: pH Analysis Run 7/13/2020 3:36 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 7/13/2020 3:36 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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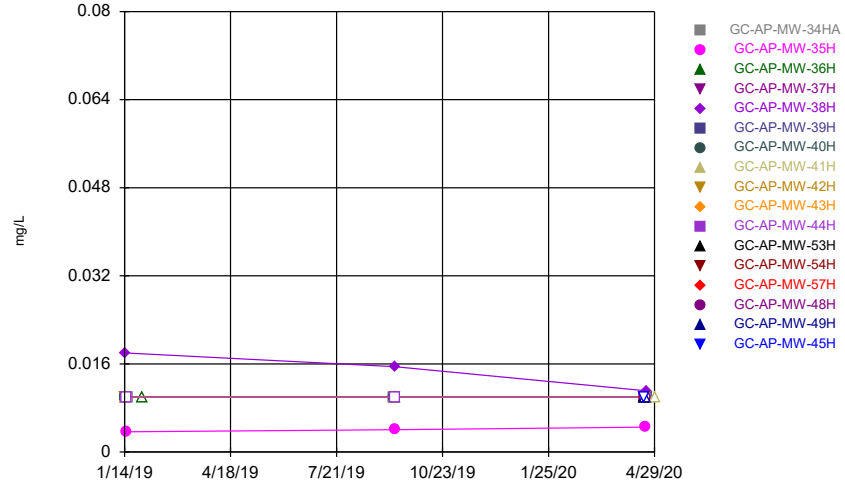
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 7/13/2020 3:36 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	6.8	5.39	5.36						5.8
4/12/2016	6.54	5.29	5.31						
4/13/2016									5.85
5/31/2016									
6/1/2016	6.49	5.39	5.35						5.92
8/15/2016									5.99
8/16/2016	6.57	5.51					6.21	5.39	
8/17/2016			5.38	5.85	5.47	6.15			
9/19/2016									
9/20/2016				5.82	5.22	4.99	6.05	5.37	
10/11/2016	6.54	5.44	5.31				6.2	5.39	6.02
10/12/2016				5.76	5.1	4.88			
10/31/2016						4.87	6.61	5.36	
11/1/2016									
11/2/2016	6.54	5.49	5.39						
11/14/2016									
11/15/2016				5.79	5.07	4.81	6.64	5.33	
11/28/2016									
11/29/2016				5.73	5.1	4.84	6.39	5.33	
1/3/2017									
1/4/2017				5.69	5.3	4.88	6.06	5.49	
1/23/2017				5.45	5.12			5.48	
1/24/2017	6.42	5.44	5.29			5.4			5.92
1/25/2017									
1/26/2017							6.02		
3/13/2017				4.8			5.68		
3/14/2017	6.59	5.48	5.19		4.74	5.13		5.17	5.96
3/15/2017									
5/9/2017	6.42		5.29	4.82	4.83	4.96	5.05	5.11	5.93
5/10/2017		5.43							
5/31/2017									
6/27/2017	6.44			5.27	4.87	5.34	4.9	5.29	5.86
6/28/2017		5.49	5.27						
8/29/2017	6.43	5.46	5.27	5.28	4.71				
8/30/2017						4.69	4.73	5.09	5.88
2/27/2018	6.49	5.48		5.11	4.96	4.91	4.87	5.25	5.92
2/28/2018			5.28						
6/4/2018									5.89
6/5/2018	6.43	5.31		5.24	5	4.87	4.89	5.12	
6/6/2018			5.21						
9/10/2018									5.89
9/11/2018	6.35	5.36		5.28	4.94	4.65	4.88	5.19	
9/12/2018			5.23						
11/5/2018									
11/6/2018			5.28	5.54	4.9	4.67	4.86	5.12	5.95
11/7/2018	6.37	5.34							
3/26/2019	6.46	5.32		5.4	4.96	4.92	4.97	5.16	
3/27/2019			5.27						5.8
9/9/2019									
9/10/2019	5.85	4.9	5.15						5.88
9/11/2019				5.53	4.85	4.33	3.96	4.11	

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
4/20/2020									
4/21/2020	6.26			5.3	4.29	4.07	3.9	4.44	5.72
4/22/2020		5.3	5.26						

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						6.16	6.5	6.29	
2/17/2016	6.01	6.29	6.63	6.46	6.45				6.04
4/12/2016		6.33	6.59	6.45					
4/13/2016	6.17				6.49	6.29	6.32	6.21	6.07
5/31/2016			6.57	6.51	6.43			6.45	6.03
6/1/2016	6.18	6.4				6.33	6.43		
8/15/2016	6.12	6.36							
8/16/2016								6.58	6.09
8/17/2016			6.72	6.54	6.43	6.27	6.46		
9/19/2016									
9/20/2016									
10/11/2016	6.09	6.38	6.69	6.53					
10/12/2016					6.46	6.3	6.53	6.6	6.06
10/31/2016									
11/1/2016									
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	6.04	6.34	6.61	6.44					
1/25/2017					6.43	6.27	6.45	6.47	5.94
1/26/2017									
3/13/2017									
3/14/2017	6.11	6.42	6.55	6.4	6.41				6.08
3/15/2017						6.27	6.39	6.54	
5/9/2017	6.1	6.35	6.65						6.07
5/10/2017				6.4	6.41	6.25	6.39	6.53	
5/31/2017									
6/27/2017									
6/28/2017	6.09	6.32	6.66	6.46	6.46	6.25	6.4	6.49	6.02
8/29/2017				6.47	6.46	6.32	6.47	6.49	6.19
8/30/2017	6.07	6.32	6.66						
2/27/2018	6.09	6.39	6.73	6.53	6.45	6.36	6.54	6.59	6.21
2/28/2018									
6/4/2018	6.07	6.4							
6/5/2018			6.63	6.49	6.36	6.3	6.47	6.52	6.27
6/6/2018									
9/10/2018	6								6.33
9/11/2018			6.65	6.48	6.38	6.36	6.53	6.53	
9/12/2018		6.35							
11/5/2018									6.26
11/6/2018	6.04	6.34	6.65						
11/7/2018				6.48	6.37	6.31	6.49	6.51	
3/26/2019				6.54	6.39	6.32	6.47		
3/27/2019	6.06	6.44	6.59					6.53	6.37
9/9/2019	6.13	6.22							
9/10/2019				6.55	6.39	6.31	6.43	6.33	5.91
9/11/2019			6.36						

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
4/20/2020		6.4							
4/21/2020	5.99		6.5	6.54	6.39	6.06	6.25		
4/22/2020								6.44	6.26

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	6.84	6.4	6.21					7.15	
2/17/2016				6.02	6.18	6.32	6.23		
4/12/2016		6.41	6.37	6.17			6.3		
4/13/2016	7.03				6.28	6.44		7.1	
5/31/2016	6.94	6.22	6.42	6.15					
6/1/2016					6.36	6.24	6.24	6.76	
8/15/2016					6.37	6.34	6.25		
8/16/2016	6.84	6.41		6.21				6.99	7.13
8/17/2016			6.42						
9/19/2016									6.94
9/20/2016									
10/11/2016				6.14					6.82
10/12/2016	6.75	6.42	6.38		6.32	6.42	6.26	6.89	
10/31/2016									
11/1/2016		6.55	6.33	6.15					6.71
11/2/2016					6.33	6.48	6.3		
11/14/2016									6.57
11/15/2016									
11/28/2016									6.57
11/29/2016									
1/3/2017									6.56
1/4/2017									
1/23/2017									
1/24/2017				6.11	6.29	6.53	6.3		6.41
1/25/2017	6.87	6.76	6.37					6.84	
1/26/2017									
3/13/2017									
3/14/2017			6.3	6.09	6.27	6.43	6.31		6.37
3/15/2017	6.9	6.82						6.78	
5/9/2017	6.85	6.7	6.43					6.83	
5/10/2017				6.11	6.3	6.33	6.34		6.41
5/31/2017									
6/27/2017				6.09	6.28	6.38	6.32		6.14
6/28/2017	6.85	6.58	6.4					6.98	
8/29/2017	6.86	6.4	6.32					6.8	
8/30/2017				6.1	6.34	6.31	6.38		6.08
2/27/2018			6.28						5.99
2/28/2018	6.94	6.72		6.11	6.33	6.57	6.31	6.87	
6/4/2018									
6/5/2018				6.05	6.29	6.21	6.16		5.93
6/6/2018	6.99	6.57	6.25					6.94	
9/10/2018								6.74	
9/11/2018	6.87	6.64		6.18					5.86
9/12/2018			6.42		6.36	6.43	6.29		
11/5/2018	6.81	6.69						6.66	
11/6/2018				6.09	6.37	6.47	6.31		5.89
11/7/2018			6.42						
3/26/2019	6.95	6.54		6.1	6.34	6.52	6.3	6.84	
3/27/2019			6.41						5.95
9/9/2019						5.84	6.28		
9/10/2019	6.69		6.11	5.82	6.35			6.58	
9/11/2019		6.22							5.85

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
4/20/2020		6.68		6.16	6.43				
4/21/2020	6.96		6.31			6.61	6.31	6.81	
4/22/2020									5.75

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	6	6.34
8/17/2016		
9/19/2016	6	6.11
9/20/2016		
10/11/2016	6.02	5.99
10/12/2016		
10/31/2016		
11/1/2016	5.97	5.84
11/2/2016		
11/14/2016	5.98	5.83
11/15/2016		
11/28/2016	6	5.79
11/29/2016		
1/3/2017	6.03	5.39
1/4/2017		
1/23/2017		
1/24/2017	5.9	
1/25/2017		5.09
1/26/2017		
3/13/2017		
3/14/2017	6.07	4.99
3/15/2017		
5/9/2017		
5/10/2017	6	4.63
5/31/2017	6.02	
6/27/2017	6.05	4.76
6/28/2017		
8/29/2017		
8/30/2017	6.13	4.85
2/27/2018	6.1	4.69
2/28/2018		
6/4/2018		
6/5/2018	6.05	4.62
6/6/2018		
9/10/2018		
9/11/2018	6.07	4.79
9/12/2018		
11/5/2018	6.01	
11/6/2018		4.62
11/7/2018		
3/26/2019		
3/27/2019	6.15	4.68
9/9/2019		
9/10/2019		
9/11/2019	5.87	4.57

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
4/20/2020		
4/21/2020		
4/22/2020	5.92	4.71

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					6.56				
1/15/2019				5.88		6.4	5.7	6.71	6.29
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	6.2
4/20/2020							5.63		
4/21/2020		6.54							6.01
4/22/2020	5.45		7.72	6.23	6.66	6.42			
4/29/2020								6.37	

Time Series

Constituent: pH (SU) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	6.48	6.39						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	6.52	6.11						
4/20/2020		6.11	6.17	6.58	6.12			7.14
4/21/2020	6.18					6.5	6.28	
4/22/2020								
4/29/2020								

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	<0.01	<0.01	<0.01						0.00277 (J)
4/12/2016	0.00205 (J)	<0.01	<0.01						
4/13/2016									<0.01
5/31/2016									
6/1/2016	<0.01	<0.01	<0.01						<0.01
8/15/2016									<0.01
8/16/2016	<0.01	<0.01					<0.01	<0.01	
8/17/2016			<0.01	<0.01	<0.01	<0.01			
9/19/2016									
9/20/2016				<0.01	<0.01	<0.01	<0.01	<0.01	
10/11/2016	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01
10/12/2016				<0.01	<0.01	<0.01			
11/14/2016									
11/15/2016				<0.01	<0.01	<0.01	<0.01	<0.01	
1/3/2017									
1/4/2017				<0.01	<0.01	<0.01	<0.01	<0.01	
1/23/2017				0.00247 (J)	<0.01			<0.01	
1/24/2017	<0.01	<0.01	<0.01			<0.01			<0.01
1/25/2017									
1/26/2017							<0.01		
5/9/2017	<0.01		<0.01	0.0072 (J)	<0.01	<0.01	<0.01	<0.01	<0.01
5/10/2017		<0.01							
6/27/2017	<0.01			0.00443 (J)	<0.01	<0.01	<0.01	<0.01	0.00206 (J)
6/28/2017		0.00268 (J)	<0.01						
2/27/2018	<0.01	0.00281 (J)		<0.01	<0.01	<0.01	<0.01	<0.01	0.00206 (J)
2/28/2018			<0.01						
6/4/2018									<0.01
6/5/2018	<0.01	0.00294 (J)		<0.01	<0.01	<0.01	<0.01	<0.01	
6/6/2018			<0.01						
11/5/2018									
11/6/2018			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/7/2018	<0.01	<0.01							
3/26/2019	<0.01	0.00208 (J)		<0.01	<0.01	<0.01	<0.01	<0.01	
3/27/2019			<0.01						<0.01
9/9/2019									
9/10/2019	<0.01	<0.01	<0.01						<0.01
9/11/2019				<0.01	<0.01	<0.01	<0.01	<0.01	
4/20/2020									
4/21/2020	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/22/2020		<0.01	<0.01						

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.01	<0.01	<0.01	
2/17/2016	<0.01	<0.01	<0.01	<0.01	<0.01				<0.01
4/12/2016		<0.01	<0.01	<0.01					
4/13/2016	<0.01				<0.01	<0.01	<0.01	<0.01	<0.01
5/31/2016			<0.01	<0.01	<0.01			<0.01	<0.01
6/1/2016	<0.01	<0.01				<0.01	<0.01		
8/15/2016	<0.01	<0.01							
8/16/2016								<0.01	<0.01
8/17/2016			<0.01	<0.01	<0.01	<0.01	<0.01		
9/19/2016									
9/20/2016									
10/11/2016	<0.01	<0.01	<0.01	<0.01					
10/12/2016					<0.01	<0.01	<0.01	<0.01	<0.01
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<0.01	<0.01	<0.01	<0.01					
1/25/2017					<0.01	<0.01	<0.01	<0.01	<0.01
1/26/2017									
5/9/2017	<0.01	<0.01	<0.01						<0.01
5/10/2017				<0.01	<0.01	<0.01	<0.01	<0.01	
6/27/2017									
6/28/2017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/27/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/28/2018									
6/4/2018	<0.01	<0.01							
6/5/2018			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6/6/2018									
11/5/2018									<0.01
11/6/2018	<0.01	<0.01	<0.01						
11/7/2018				<0.01	<0.01	<0.01	<0.01	<0.01	
3/26/2019				<0.01	<0.01	<0.01	<0.01		
3/27/2019	<0.01	<0.01	<0.01					<0.01	<0.01
9/9/2019	<0.01	<0.01							
9/10/2019				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/11/2019			<0.01						
4/20/2020		<0.01							
4/21/2020	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01		
4/22/2020								<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	<0.01	0.0227	<0.01					<0.01	
2/17/2016				<0.01	<0.01	<0.01	<0.01		
4/12/2016		0.0701	<0.01	<0.01			<0.01		
4/13/2016	<0.01				<0.01	<0.01		<0.01	
5/31/2016	<0.01	0.0129	<0.01	<0.01					
6/1/2016					<0.01	<0.01	<0.01	<0.01	
8/15/2016					<0.01	<0.01	<0.01		
8/16/2016	<0.01	0.0208		<0.01				<0.01	<0.01
8/17/2016			<0.01						
9/19/2016									<0.01
9/20/2016									
10/11/2016				<0.01					<0.01
10/12/2016	<0.01	0.00431 (J)	<0.01		<0.01	<0.01	<0.01	<0.01	
11/14/2016									<0.01
11/15/2016									
1/3/2017									<0.01
1/4/2017									
1/23/2017									
1/24/2017				<0.01	<0.01	<0.01	<0.01		<0.01
1/25/2017	<0.01	0.00779 (J)	<0.01					<0.01	
1/26/2017									
5/9/2017	<0.01	0.00905 (J)	<0.01					<0.01	
5/10/2017				<0.01	<0.01	<0.01	<0.01		<0.01
6/27/2017				<0.01	<0.01	<0.01	<0.01		<0.01
6/28/2017	<0.01	0.0072 (J)	<0.01					<0.01	
2/27/2018			<0.01						<0.01
2/28/2018	<0.01	0.00826 (J)		<0.01	<0.01	<0.01	<0.01	<0.01	
6/4/2018									
6/5/2018				<0.01	<0.01	<0.01	<0.01		<0.01
6/6/2018	<0.01	0.00496 (J)	<0.01					<0.01	
11/5/2018	<0.01	<0.01						<0.01	
11/6/2018				<0.01	<0.01	<0.01	<0.01		<0.01
11/7/2018			<0.01						
3/26/2019	<0.01	0.0239		<0.01	<0.01	<0.01	<0.01	<0.01	
3/27/2019			<0.01						<0.01
9/9/2019						<0.01	<0.01		
9/10/2019	<0.01		<0.01	<0.01	<0.01			<0.01	
9/11/2019		<0.01							<0.01
4/20/2020		0.0125		<0.01	<0.01				
4/21/2020	<0.01		<0.01			<0.01	<0.01	<0.01	
4/22/2020									<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.01	<0.01
8/17/2016		
9/19/2016	<0.01	<0.01
9/20/2016		
10/11/2016	<0.01	<0.01
10/12/2016		
11/14/2016	<0.01	<0.01
11/15/2016		
1/3/2017	<0.01	<0.01
1/4/2017		
1/23/2017		
1/24/2017	<0.01	
1/25/2017		<0.01
1/26/2017		
5/9/2017		
5/10/2017	<0.01	<0.01
6/27/2017	<0.01	<0.01
6/28/2017		
2/27/2018	<0.01	<0.01
2/28/2018		
6/4/2018		
6/5/2018	<0.01	<0.01
6/6/2018		
11/5/2018	<0.01	
11/6/2018		<0.01
11/7/2018		
3/26/2019		
3/27/2019	<0.01	<0.01
9/9/2019		
9/10/2019		
9/11/2019	<0.01	<0.01
4/20/2020		
4/21/2020		
4/22/2020	<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					0.018				
1/15/2019				<0.01		<0.01	<0.01	<0.01	<0.01
1/16/2019		0.00367 (J)							
1/17/2019	<0.01								
1/30/2019			<0.01						
9/10/2019	<0.01						<0.01		
9/11/2019		0.00404 (J)	<0.01		0.0155	<0.01		<0.01	<0.01
4/20/2020							<0.01		
4/21/2020		0.00451 (J)							<0.01
4/22/2020	<0.01		<0.01	<0.01	0.0111	<0.01			
4/29/2020								<0.01	

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	<0.01	<0.01						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	<0.01	<0.01						
4/20/2020		<0.01	<0.01	<0.01	<0.01			<0.01
4/21/2020	<0.01					<0.01	<0.01	
4/22/2020								
4/29/2020								

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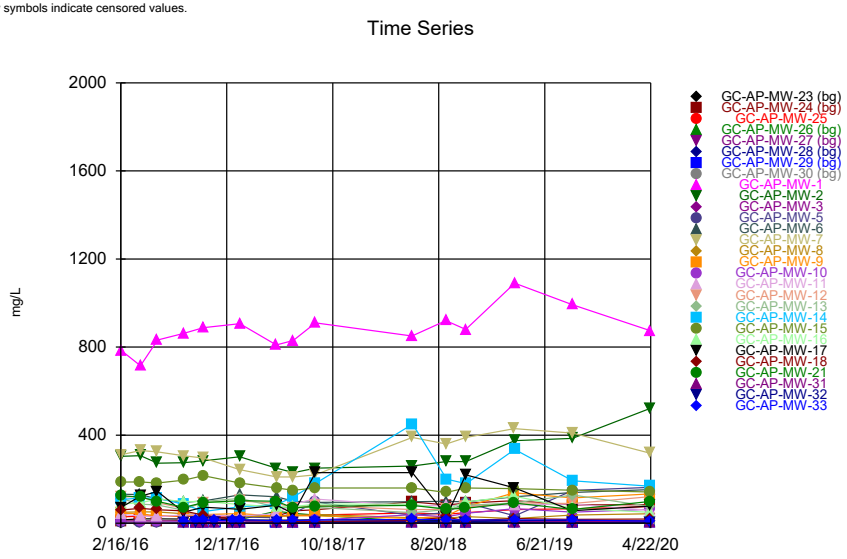
Hollow symbols indicate censored values.



Constituent: Sulfate Analysis Run 7/13/2020 3:36 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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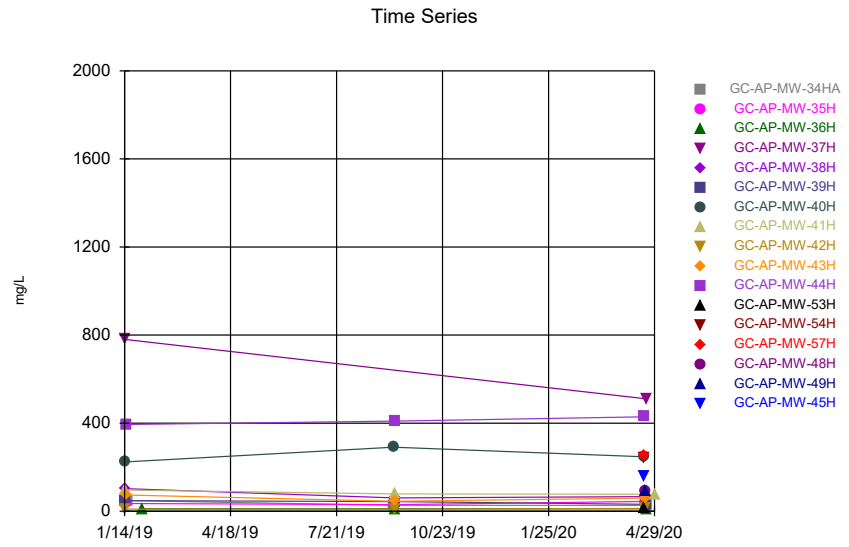

Constituent: Sulfate Analysis Run 7/13/2020 3:37 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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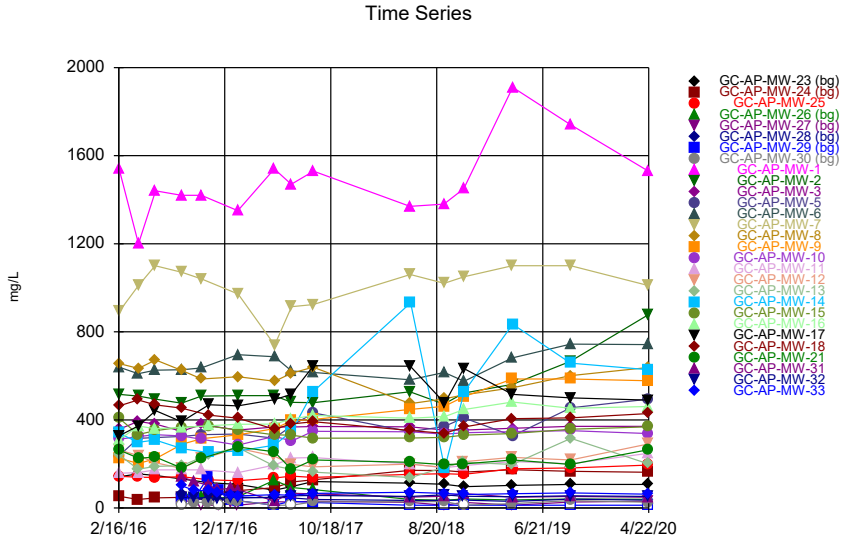
Hollow symbols indicate censored values.



Constituent: TDS Analysis Run 7/13/2020 3:37 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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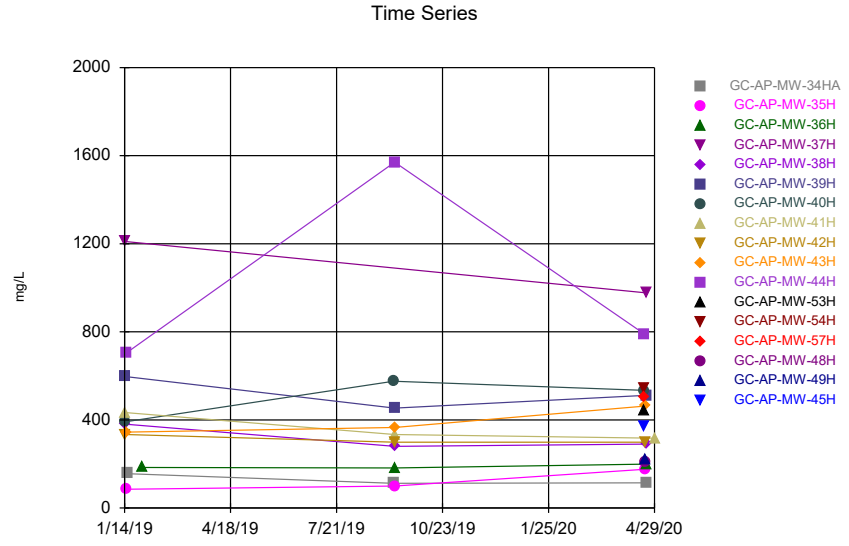

Constituent: TDS Analysis Run 7/13/2020 3:37 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	14.7	10.4	28.7						785
4/12/2016	20	11.3	32.5						
4/13/2016									715
5/31/2016									
6/1/2016	20.1	10.4	31.9						832
8/15/2016									862
8/16/2016	19.1	12.2					0.894 (J)	0.702 (J)	
8/17/2016			30.5	16.2	0.928 (J)	6.46			
9/19/2016									
9/20/2016				14.9	0.478 (J)	8.3	<1	<1	
10/11/2016	18.4	19.8	32.3				<1	<1	888
10/12/2016				12.4	0.727 (J)	8.36			
11/14/2016									
11/15/2016				8.6	0.448 (J)	8.75	1.19	<1	
1/3/2017									
1/4/2017				12.2	0.627 (J)	7.85	<1	<1	
1/23/2017				16	1.34			0.493 (J)	
1/24/2017	15	30.7	33.5			6.62			906
1/25/2017									
1/26/2017							0.6 (J)		
5/9/2017	14		33	55	<1	5.6	<1	<1	810
5/10/2017		33							
6/27/2017	14			45	<1	5.3	<1	<1	830
6/28/2017		56	35						
8/29/2017	16	61	37	37	<1				
8/30/2017						8.2	<1	<1	910
6/4/2018									850
6/5/2018	14	97		9.3	2.1 (J)	8.3	1.4 (J)	<1	
6/6/2018			47						
9/10/2018									920
9/11/2018	13	83		7.8	<1	8.9	<1	<1	
9/12/2018			41						
11/5/2018									
11/6/2018			48	6	<1	8.6	<1	<1	880
11/7/2018	14	91							
3/26/2019	12.3	103		6.86	1.66	10.1	0.594 (J)	<1	
3/27/2019			62.4						1090
9/9/2019									
9/10/2019	12.4	83.4	66						992
9/11/2019				5.29	1.29	10.6	<1	<1	
4/20/2020									
4/21/2020	10.2			6.28	2.21	9.4	0.694 (J)	<1	874
4/22/2020		84.7	76.1						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						49.4	45.2	9.03	
2/17/2016	304	<1	<1	132	311				40.2
4/12/2016		0.49 (J)	0.483 (J)	130					
4/13/2016	307				330	51.7	43.9	10.7	33.1
5/31/2016			0.518 (J)	111	324			10.2	28.1
6/1/2016	273	0.544 (J)				51.2	32		
8/15/2016	275	0.332 (J)							
8/16/2016								9.1	38.5
8/17/2016			3.63	95.8	306	42.9	31.9		
9/19/2016									
9/20/2016									
10/11/2016	284	<1	15.6	101					
10/12/2016					296	39.5	39.6	7.24	38.3
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	302	<1	28.9	129					
1/25/2017					243	31.3	44	9.71	32
1/26/2017									
5/9/2017	250	2.1 (J)	25						44
5/10/2017				120	210	30	32	11	
6/27/2017									
6/28/2017	230	<1	45	100	210	35	34	10	88
8/29/2017				95	220	40	34	14	110
8/30/2017	250	<1	96						
6/4/2018	260	1.4 (J)							
6/5/2018			36	98	390	25	22	39	79
6/6/2018									
9/10/2018	280								80
9/11/2018			48	100	360	23	33	29	
9/12/2018		<1							
11/5/2018									81
11/6/2018	280	<1	93						
11/7/2018				97	390	30	76	45	
3/26/2019				120	430	21.6	138		
3/27/2019	375	6.64	33.4					66.2	83.2
9/9/2019	385	6.56							
9/10/2019				140	409	37.4	115	50.5	87.2
9/11/2019			149						
4/20/2020		10.5							
4/21/2020	522		163	153	318	43.3	133		
4/22/2020								63.2	58.7

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	119	113	108					125	
2/17/2016				187	87.4	72.3	60.2		
4/12/2016		86.7	114	188			68.2		
4/13/2016	122				92.7	123		119	
5/31/2016	94.3	83.1	114	183					
6/1/2016					111	144	61.4	99.2	
8/15/2016					98.3	50.1	56		
8/16/2016	67.1	59.3		196				71.9	1.78
8/17/2016			85.4						
9/19/2016									2.06
9/20/2016									
10/11/2016				216					2.33
10/12/2016	94.1	99.3	53.5		99.3	72.6	36.6	93.9	
11/14/2016									2.31
11/15/2016									
1/3/2017									2.81
1/4/2017									
1/23/2017									
1/24/2017				183	85.4	63.4	12.3		3.34
1/25/2017	101	113	75.4					103	
1/26/2017									
5/9/2017	91	74	84					100	
5/10/2017				160	74	82	10		2.9 (J)
6/27/2017				150	75	44	9.7		3.4 (J)
6/28/2017	71	71	120					69	
8/29/2017	80	72	180					77	
8/30/2017				160	87	230	7.8		3.7 (J)
6/4/2018									
6/5/2018				160	87	230	13		3.7 (J)
6/6/2018	62	48	450					81	
9/10/2018								64	
9/11/2018	63	62		140					2.2 (J)
9/12/2018			200		63	33	28		
11/5/2018	74	81						68	
11/6/2018				160	97	220	11		3.1 (J)
11/7/2018			180						
3/26/2019	92.3	92.4		157	123	161	21.3	92	
3/27/2019			335						3.55
9/9/2019						57.3	17.8		
9/10/2019	89.3		193	150	68			63.1	
9/11/2019		128							3.83
4/20/2020		76.5		142	49.6				
4/21/2020	121		168			78	19.2	99	
4/22/2020									3.78

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	2.06	9.33
8/17/2016		
9/19/2016	1.44	11.2
9/20/2016		
10/11/2016	1.38	12.6
10/12/2016		
11/14/2016	1.15	12.4
11/15/2016		
1/3/2017	1.57	14.3
1/4/2017		
1/23/2017		
1/24/2017	2.06	
1/25/2017		15.2
1/26/2017		
5/9/2017		
5/10/2017	2.1 (J)	12
6/27/2017	2.7 (J)	13
6/28/2017		
8/29/2017		
8/30/2017	2.6 (J)	15
6/4/2018		
6/5/2018	3.1 (J)	17
6/6/2018		
9/10/2018		
9/11/2018	1.6 (J)	16
9/12/2018		
11/5/2018	2.4 (J)	
11/6/2018		15
11/7/2018		
3/26/2019		
3/27/2019	3.24	15.1
9/9/2019		
9/10/2019		
9/11/2019	2.66	14.5
4/20/2020		
4/21/2020		
4/22/2020	2.51	9.64

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					103				
1/15/2019				780		48.5	224	96	9.73
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	9.43
4/20/2020							247		
4/21/2020		44.5							12.4
4/22/2020	26.8		10.9	510	66.5	31.7			
4/29/2020								77.2	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	74	394						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	45.7	409						
4/20/2020		429	14.7	242	252			157
4/21/2020	59.7					90.2	90.8	
4/22/2020								
4/29/2020								

Time Series

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	142	53	144						1540
4/12/2016	155	38.7	140						
4/13/2016									1200
5/31/2016									
6/1/2016	148	46	139						1440
8/15/2016									1420
8/16/2016	132	48					41.3	<25	
8/17/2016			142	64	36.7	65.3			
9/19/2016									
9/20/2016				60	25.3	44	42.7	26.7	
10/11/2016									1420
10/12/2016				54.7	<25				
10/31/2016						38.7	140	25.3	
11/1/2016									
11/2/2016	115	66.7	128						
11/28/2016									
11/29/2016				42	<25	34	78	<25	
1/3/2017									
1/4/2017				56	27.3	42	34	34.7	
1/23/2017				50.7	<25			33.3	
1/24/2017	107	78.7	124			45.3			1350
1/25/2017									
1/26/2017							32.7		
5/9/2017	80.7		136	126	28.7	49.3	<25	<25	1540
5/10/2017		92.7							
6/27/2017	96.7			93.3	27.3	46	30.7	<25	1470
6/28/2017		118	145						
8/29/2017	120	128	139	84	30.7				
8/30/2017						38.7	25.3	28	1530
6/4/2018									1370
6/5/2018	113	171		38.7	26	34.7	<25	28.7	
6/6/2018			153						
9/10/2018									1380
9/11/2018	108	170		35.3	<25	34.7	<25	29.3	
9/12/2018			156						
11/5/2018									
11/6/2018			153	40.7	26	36	<25	<25	1450
11/7/2018	96.7	163							
3/26/2019	103	174		36.7	<25	30	<25	19.9 (D)	
3/27/2019			178						1910
9/9/2019									
9/10/2019	107	167	182						1740
9/11/2019				40.7	27.3	40	<25	34	
4/20/2020									
4/21/2020	107			39.3	30.7	36	<25	26.7	1530
4/22/2020		162	195						

Time Series

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						656	226	312	
2/17/2016	516	358	238	640	892				158
4/12/2016		393	316	610					
4/13/2016	508				1010	634	202	324	161
5/31/2016			320	626	1100			333	173
6/1/2016	494	381				672	224		
8/15/2016	476	348							
8/16/2016								327	173
8/17/2016			325	628	1070	624	290		
9/19/2016									
9/20/2016									
10/11/2016	508	379	333	636					
10/12/2016					1040	586	315	312	173
10/31/2016									
11/1/2016									
11/2/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	510	354	336	696					
1/25/2017					972	596	332	286	161
1/26/2017									
5/9/2017	510	368	317						195
5/10/2017				687	740	576	361	326	
6/27/2017									
6/28/2017	480	368	373	622	914	612	396	304	227
8/29/2017				616	924	640	402	348	229
8/30/2017	478	370	432						
6/4/2018	528	369							
6/5/2018			347	582	1060	474	448	346	200
6/6/2018									
9/10/2018	472								183
9/11/2018			370	616	1020	496	462	335	
9/12/2018		354							
11/5/2018									193
11/6/2018	522	354	409						
11/7/2018				576	1050	514	506	342	
3/26/2019				682	1100	546	586		
3/27/2019	562	362	328					347	211
9/9/2019	666	371							
9/10/2019				744	1100	601 (D)	586	351	201
9/11/2019			455						
4/20/2020		371							
4/21/2020	878		494	742	1010	638	578		
4/22/2020								338	249

Time Series

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	264	242	340					264	
2/17/2016				408	310	328	464		
4/12/2016		176	298	334			491		
4/13/2016	238				372	373		226	
5/31/2016	206	189	309	351					
6/1/2016					360	442	468	231	
8/15/2016					366	392	454		
8/16/2016	180	192		367				181	142
8/17/2016			269						
9/19/2016									121
9/20/2016									
10/11/2016									
10/12/2016	223							225	
10/31/2016									
11/1/2016		244	252	372					103
11/2/2016					374	469	422		
11/28/2016									84
11/29/2016									
1/3/2017									89.3
1/4/2017									
1/23/2017									
1/24/2017				354	380	464	408		83.3
1/25/2017	271	274	259					277	
1/26/2017									
5/9/2017	236	191	285					255	
5/10/2017				332	381	492	358		31.3
6/27/2017				331	404	516	382		67.3
6/28/2017	198	176	348					175	
8/29/2017	187	163	528					218	
8/30/2017				317	420	646	392		64
6/4/2018									
6/5/2018				318	408	644	352		50
6/6/2018	199	138	932					207	
9/10/2018								197	
9/11/2018	184	185		321					53.3
9/12/2018			180		415	476	339		
11/5/2018	210	208						200	
11/6/2018				331	447	634	368		66
11/7/2018			528						
3/26/2019	230	198		338 (D)	481	516	406	218	
3/27/2019			834						48.7
9/9/2019						500	409 (D)		
9/10/2019	218 (D)		658	358	453			198	
9/11/2019		316							52.7
4/20/2020		201		369	461				
4/21/2020	291		628			490	429	265	
4/22/2020									49.3

Time Series

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	49.3	101
8/17/2016		
9/19/2016	44.7	80
9/20/2016		
10/11/2016		
10/12/2016		
10/31/2016		
11/1/2016	48	78
11/2/2016		
11/28/2016	40.7	68.7
11/29/2016		
1/3/2017	49.3	60.7
1/4/2017		
1/23/2017		
1/24/2017	48.7	
1/25/2017		54.7
1/26/2017		
5/9/2017		
5/10/2017	46.7	60.7
6/27/2017	55.3	58
6/28/2017		
8/29/2017		
8/30/2017	57.3	66.7
6/4/2018		
6/5/2018	52.7	71.3
6/6/2018		
9/10/2018		
9/11/2018	60	66.7
9/12/2018		
11/5/2018	53.3	
11/6/2018		61.3
11/7/2018		
3/26/2019		
3/27/2019	51.35 (D)	65.3
9/9/2019		
9/10/2019		
9/11/2019	55.3	68.3 (D)
4/20/2020		
4/21/2020		
4/22/2020	52.7	62.7

Time Series

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					381				
1/15/2019				1210		597	392	433	334
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	299
4/20/2020							534		
4/21/2020		176							299
4/22/2020	114		199	977	290	512			
4/29/2020								317	

Time Series

Constituent: TDS (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	345	706						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	366 (D)	1570						
4/20/2020		790	441	545	502			369
4/21/2020	463					208	222	
4/22/2020								
4/29/2020								

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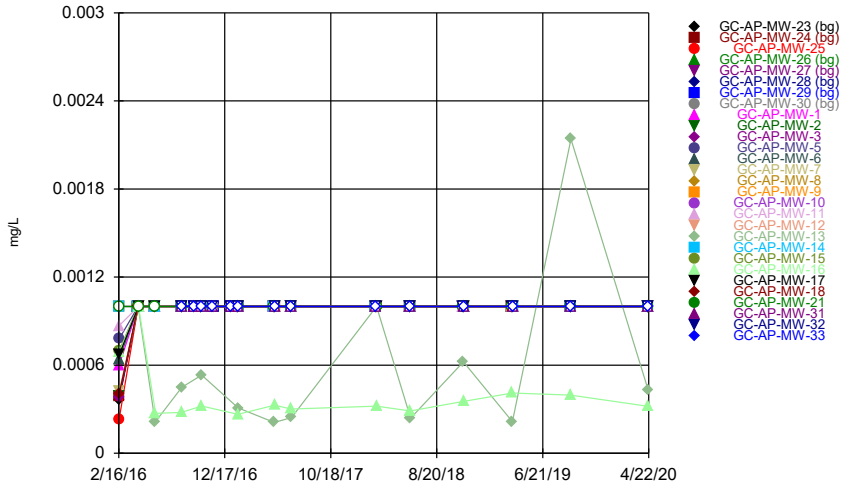
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 7/13/2020 3:37 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

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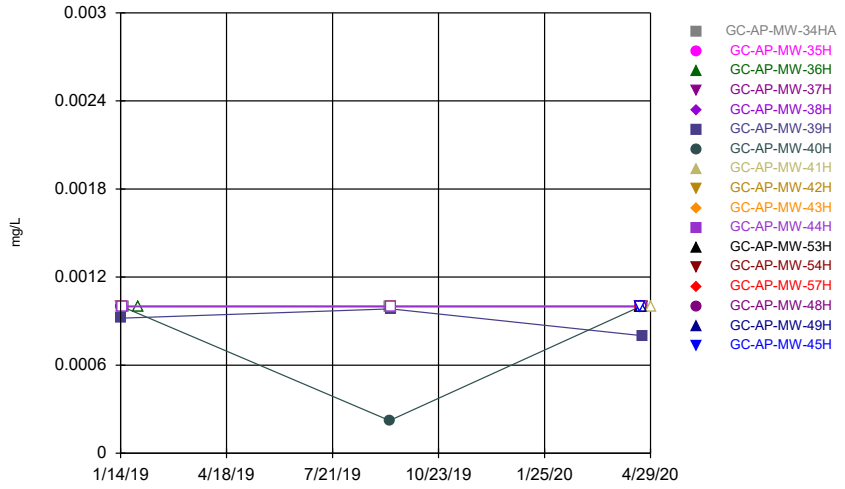
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 7/13/2020 3:37 PM View: Time Series
Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-1
2/16/2016									
2/17/2016	0.000364 (J)	0.00039 (J)	0.000232 (J)						0.000601 (J)
4/12/2016	<0.001	<0.001	<0.001						
4/13/2016									<0.001
5/31/2016									
6/1/2016	<0.001	<0.001	<0.001						<0.001
8/15/2016									<0.001
8/16/2016	<0.001	<0.001					<0.001	<0.001	
8/17/2016			<0.001	<0.001	<0.001	<0.001			
9/19/2016									
9/20/2016				<0.001	<0.001	<0.001	<0.001	<0.001	
10/11/2016	<0.001	<0.001	<0.001				<0.001	<0.001	<0.001
10/12/2016				<0.001	<0.001	<0.001			
11/14/2016									
11/15/2016				<0.001	<0.001	<0.001	<0.001	<0.001	
1/3/2017									
1/4/2017				<0.001	<0.001	<0.001	<0.001	<0.001	
1/23/2017				<0.001	<0.001			<0.001	
1/24/2017	<0.001	<0.001	<0.001			<0.001			<0.001
1/25/2017									
1/26/2017							<0.001		
5/9/2017	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5/10/2017		<0.001							
6/27/2017	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/28/2017		<0.001	<0.001						
2/27/2018	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/28/2018			<0.001						
6/4/2018									<0.001
6/5/2018	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	
6/6/2018			<0.001						
11/5/2018									
11/6/2018			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/7/2018	<0.001	<0.001							
3/26/2019	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	
3/27/2019			<0.001						<0.001
9/9/2019									
9/10/2019	<0.001	<0.001	<0.001						<0.001
9/11/2019				<0.001	<0.001	<0.001	<0.001	<0.001	
4/20/2020									
4/21/2020	<0.001			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/22/2020		<0.001	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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
2/16/2016						<0.001	<0.001	<0.001	
2/17/2016	0.000388 (J)	0.00038 (J)	0.000779 (J)	0.000639 (J)	0.00042 (J)				0.000869 (J)
4/12/2016		<0.001	<0.001	<0.001					
4/13/2016	<0.001				<0.001	<0.001	<0.001	<0.001	<0.001
5/31/2016			<0.001	<0.001	<0.001			<0.001	<0.001
6/1/2016	<0.001	<0.001				<0.001	<0.001		
8/15/2016	<0.001	<0.001							
8/16/2016								<0.001	<0.001
8/17/2016			<0.001	<0.001	<0.001	<0.001	<0.001		
9/19/2016									
9/20/2016									
10/11/2016	<0.001	<0.001	<0.001	<0.001					
10/12/2016					<0.001	<0.001	<0.001	<0.001	<0.001
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<0.001	<0.001	<0.001	<0.001					
1/25/2017					<0.001	<0.001	<0.001	<0.001	<0.001
1/26/2017									
5/9/2017	<0.001	<0.001	<0.001						<0.001
5/10/2017				<0.001	<0.001	<0.001	<0.001	<0.001	
6/27/2017									
6/28/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/27/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/28/2018									
6/4/2018	<0.001	<0.001							
6/5/2018			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/6/2018									
11/5/2018									<0.001
11/6/2018	<0.001	<0.001	<0.001						
11/7/2018				<0.001	<0.001	<0.001	<0.001	<0.001	
3/26/2019				<0.001	<0.001	<0.001	<0.001		
3/27/2019	<0.001	<0.001	<0.001					<0.001	<0.001
9/9/2019	<0.001	<0.001							
9/10/2019				<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/11/2019			<0.001						
4/20/2020		<0.001							
4/21/2020	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001		
4/22/2020								<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	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-31
2/16/2016	<0.001	<0.001	<0.001					<0.001	
2/17/2016				0.000697 (J)	0.000687 (J)	0.00067 (J)	0.000404 (J)		
4/12/2016		<0.001	<0.001	<0.001			<0.001		
4/13/2016	<0.001				<0.001	<0.001		<0.001	
5/31/2016	<0.001	0.000212 (J)	<0.001	<0.001					
6/1/2016					0.000272 (J)	<0.001	<0.001	<0.001	
8/15/2016					0.000278 (J)	<0.001	<0.001		
8/16/2016	<0.001	0.000449 (J)		<0.001				<0.001	<0.001
8/17/2016			<0.001						
9/19/2016									<0.001
9/20/2016									
10/11/2016				<0.001					<0.001
10/12/2016	<0.001	0.000532 (J)	<0.001		0.000322 (J)	<0.001	<0.001	<0.001	
11/14/2016									<0.001
11/15/2016									
1/3/2017									<0.001
1/4/2017									
1/23/2017									
1/24/2017				<0.001	0.000265 (J)	<0.001	<0.001		<0.001
1/25/2017	<0.001	0.000309 (J)	<0.001					<0.001	
1/26/2017									
5/9/2017	<0.001	0.00021 (J)	<0.001					<0.001	
5/10/2017				<0.001	0.000327 (J)	<0.001	<0.001		<0.001
6/27/2017				<0.001	0.000301 (J)	<0.001	<0.001		<0.001
6/28/2017	<0.001	0.000244 (J)	<0.001					<0.001	
2/27/2018			<0.001						<0.001
2/28/2018	<0.001	<0.001		<0.001	0.000321 (J)	<0.001	<0.001	<0.001	
6/4/2018									
6/5/2018				<0.001	0.000288 (J)	<0.001	<0.001		<0.001
6/6/2018	<0.001	0.000239 (J)	<0.001					<0.001	
11/5/2018	<0.001	0.000623 (J)						<0.001	
11/6/2018				<0.001	0.000354 (J)	<0.001	<0.001		<0.001
11/7/2018			<0.001						
3/26/2019	<0.001	0.000215 (J)		<0.001	0.00041 (J)	<0.001	<0.001	<0.001	
3/27/2019			<0.001						<0.001
9/9/2019						<0.001	<0.001		
9/10/2019	<0.001		<0.001	<0.001	0.000396 (J)			<0.001	
9/11/2019		0.00214							<0.001
4/20/2020		0.000433 (J)		<0.001	0.00032 (J)				
4/21/2020	<0.001		<0.001			<0.001	<0.001	<0.001	
4/22/2020									<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-32	GC-AP-MW-33
2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016	<0.001	<0.001
8/17/2016		
9/19/2016	<0.001	<0.001
9/20/2016		
10/11/2016	<0.001	<0.001
10/12/2016		
11/14/2016	<0.001	<0.001
11/15/2016		
1/3/2017	<0.001	<0.001
1/4/2017		
1/23/2017		
1/24/2017	<0.001	
1/25/2017		<0.001
1/26/2017		
5/9/2017		
5/10/2017	<0.001	<0.001
6/27/2017	<0.001	<0.001
6/28/2017		
2/27/2018	<0.001	<0.001
2/28/2018		
6/4/2018		
6/5/2018	<0.001	<0.001
6/6/2018		
11/5/2018	<0.001	
11/6/2018		<0.001
11/7/2018		
3/26/2019		
3/27/2019	<0.001	<0.001
9/9/2019		
9/10/2019		
9/11/2019	<0.001	<0.001
4/20/2020		
4/21/2020		
4/22/2020	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

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	GC-AP-MW-42H
1/14/2019					<0.001				
1/15/2019				<0.001		0.00092 (J)	<0.001	<0.001	<0.001
1/16/2019		<0.001							
1/17/2019	<0.001								
1/30/2019			<0.001						
9/10/2019	<0.001						0.000223 (J)		
9/11/2019		<0.001	<0.001		<0.001	0.000983 (J)		<0.001	<0.001
4/20/2020							<0.001		
4/21/2020		<0.001							<0.001
4/22/2020	<0.001		<0.001	<0.001	<0.001	0.0008 (J)			
4/29/2020								<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/13/2020 3:39 PM View: Time Series

Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-45H
1/14/2019								
1/15/2019								
1/16/2019	<0.001	<0.001						
1/17/2019								
1/30/2019								
9/10/2019								
9/11/2019	<0.001	<0.001						
4/20/2020		<0.001	<0.001	<0.001	<0.001			<0.001
4/21/2020	<0.001					<0.001	<0.001	
4/22/2020								
4/29/2020								

Upper Tolerance Limits - Appendix IV

Greene County Client: Southern Company Data: Greene County AP Printed 7/23/2020, 8:28 AM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	91	n/a	n/a	89.01	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	91	n/a	n/a	85.71	n/a	n/a	0.009394	NP Inter(NDs)
Barium (mg/L)	0.347	n/a	91	n/a	n/a	0	n/a	n/a	0.009394	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	91	n/a	n/a	86.81	n/a	n/a	0.009394	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	91	n/a	n/a	78.02	n/a	n/a	0.009394	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Cobalt (mg/L)	0.0167	n/a	91	n/a	n/a	60.44	n/a	n/a	0.009394	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	1.88	n/a	91	n/a	n/a	4.396	n/a	n/a	0.009394	NP Inter(normal...
Fluoride (mg/L)	0.159	n/a	92	n/a	n/a	61.96	n/a	n/a	0.008924	NP Inter(normal...
Lead (mg/L)	0.005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	91	n/a	n/a	98.9	n/a	n/a	0.009394	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	91	n/a	n/a	91.21	n/a	n/a	0.009394	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	91	n/a	n/a	97.8	n/a	n/a	0.009394	NP Inter(NDs)

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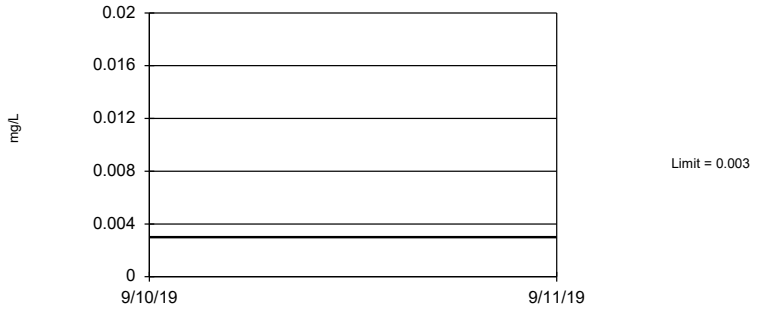
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 89.01% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Antimony Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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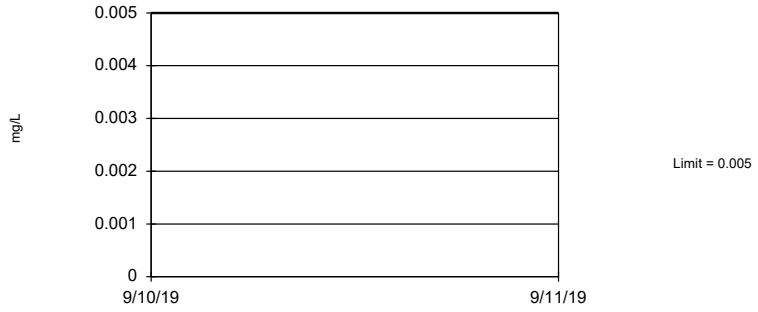
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 85.71% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Arsenic Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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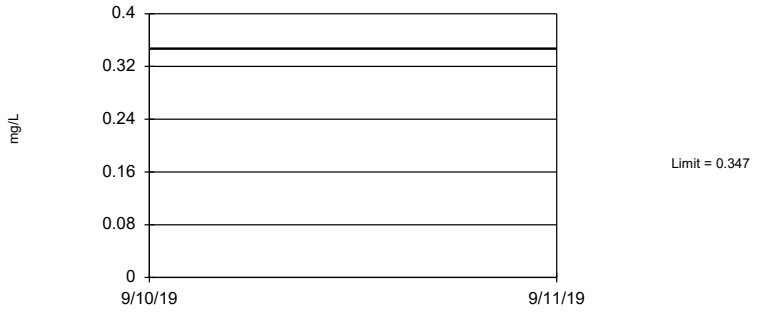
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Barium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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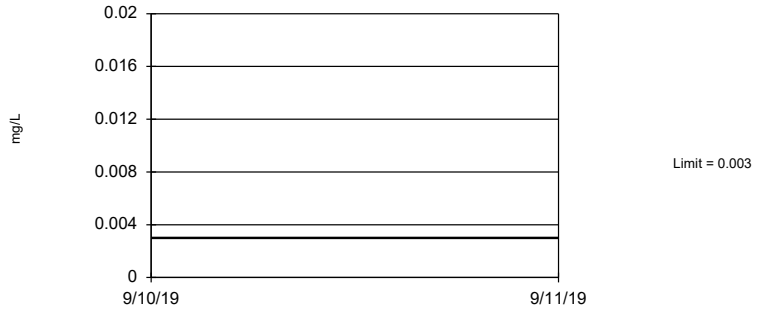
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 86.81% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Beryllium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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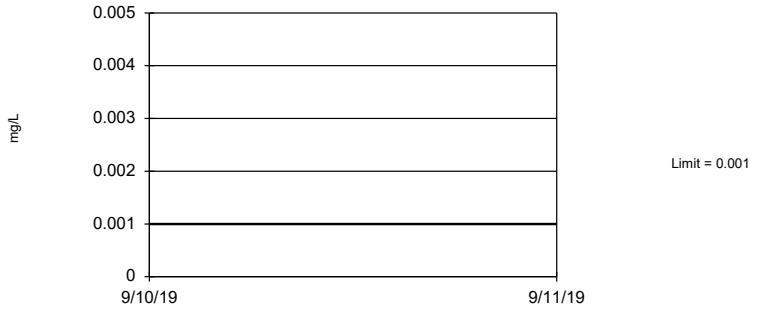
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 78.02% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Cadmium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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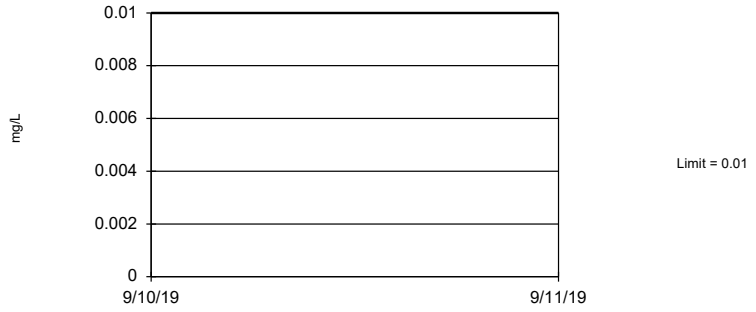
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Chromium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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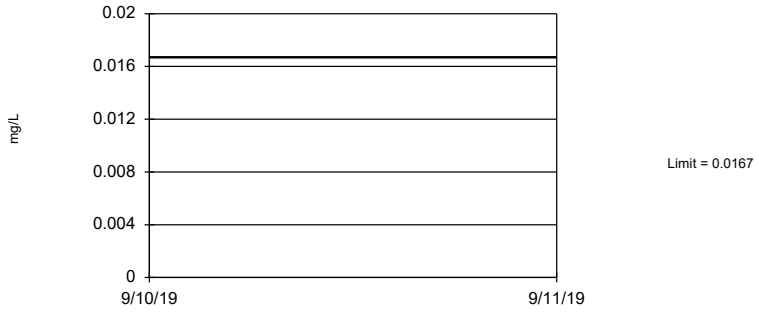
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 60.44% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Cobalt Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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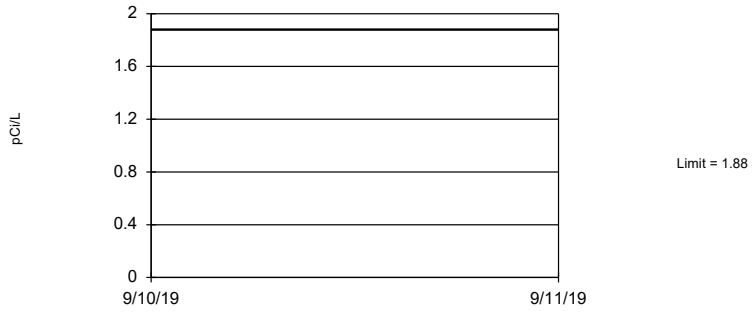
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 4.396% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Combined Radium 226 + 228 Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 92 background values. 61.96% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008924.

Constituent: Fluoride Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Lead Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Lithium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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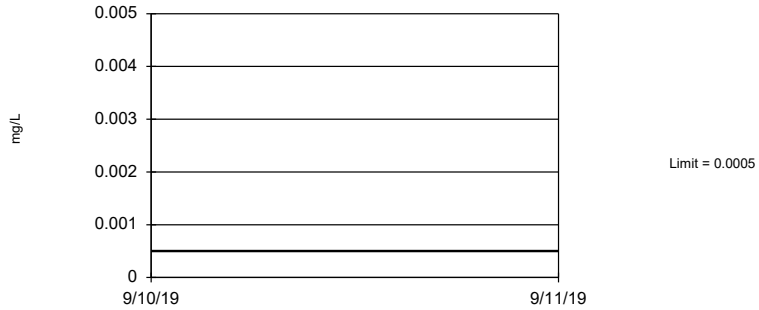
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

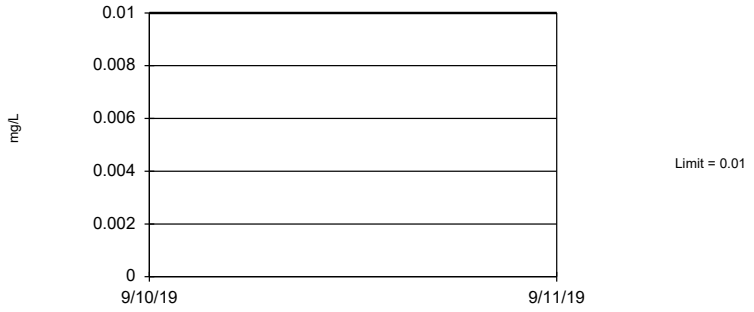
Constituent: Mercury Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 98.9% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

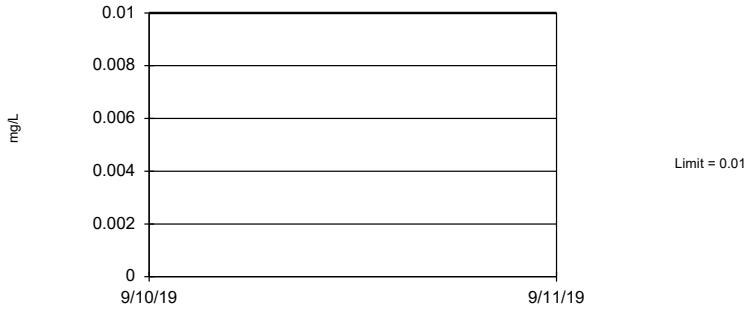
Constituent: Molybdenum Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 91.21% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

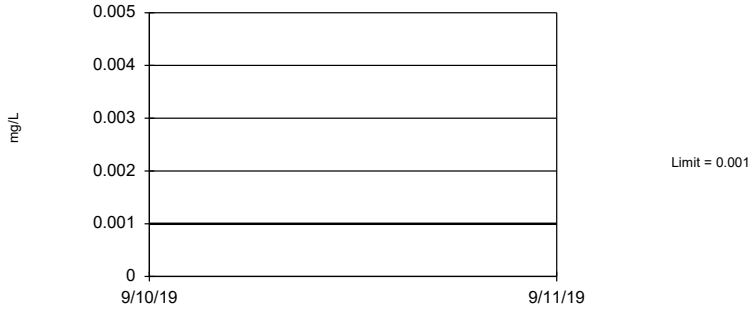
Constituent: Selenium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 97.8% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Thallium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Confidence Intervals - Significant Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/16/2020, 2:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	**GC-AP-MW-1**	**0.02115**	**0.01731**	**0.01**	**Yes**	**14**	**0**	**sqrt(x)**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4248**	**0.3707**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0146**	**0.0123**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-14**	**0.02897**	**0.01939**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-16**	**0.105**	**0.0693**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.4657**	**0.2663**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.105**	**0.05992**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-1**	**0.1017**	**0.0514**	**0.0167**	**Yes**	**14**	**0**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-11**	**0.04938**	**0.03122**	**0.0167**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-5**	**0.1088**	**0.08924**	**0.04**	**Yes**	**14**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-10**	**0.1209**	**0.1051**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-11**	**0.119**	**0.0683**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-12**	**0.2891**	**0.08728**	**0.04**	**Yes**	**14**	**0**	**x^(1/3)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.3353**	**0.1279**	**0.04**	**Yes**	**14**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.7824**	**0.5098**	**0.04**	**Yes**	**14**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.7015**	**0.5728**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.5878**	**0.5339**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.6725**	**0.5824**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.655**	**0.369**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-21**	**0.2568**	**0.07486**	**0.04**	**Yes**	**14**	**0**	**ln(x)**	**0.01**	**Param.**

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/16/2020, 2:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-25	0.003	0.00111	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-1	0.003	0.000799	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-2	0.003	0.00084	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-3	0.003	0.000906	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-5	0.003	0.000728	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.003	0.00141	0.006	No	14	85.71	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-7	0.003	0.000839	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-8	0.003	0.000833	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-9	0.003	0.000847	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-10	0.003	0.00128	0.006	No	14	85.71	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-11	0.003	0.000896	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-12	0.003	0.000834	0.006	No	14	42.86	No	0.01	NP (normality)
Antimony (mg/L)	GC-AP-MW-13	0.00317	0.001675	0.006	No	14	7.143	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-14	0.003	0.00106	0.006	No	14	85.71	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-15	0.003	0.00111	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-16	0.003	0.000935	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-17	0.003	0.000997	0.006	No	14	85.71	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-18	0.003	0.000984	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.003	0.00107	0.006	No	14	85.71	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-31	0.003	0.000928	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-32	0.003	0.00091	0.006	No	14	92.86	No	0.01	NP (NDs)
Antimony (mg/L)	GC-AP-MW-33	0.003	0.00112	0.006	No	14	92.86	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-25	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	**GC-AP-MW-1**	**0.02115**	**0.01731**	**0.01**	**Yes**	**14**	**0**	**sqrt(x)**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-2	0.01456	0.009975	0.01	No	14	0	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.007847	0.006955	0.01	No	14	0	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4248**	**0.3707**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-6	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-7	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-8	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-9	0.009359	0.006767	0.01	No	14	0	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0146**	**0.0123**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	GC-AP-MW-11	0.00716	0.005218	0.01	No	14	0	x^2	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-13	0.009606	0.003457	0.01	No	14	0	sqrt(x)	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-14**	**0.02897**	**0.01939**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-15	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	**GC-AP-MW-16**	**0.105**	**0.0693**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.4657**	**0.2663**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.105**	**0.05992**	**0.01**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-21	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-31	0.005	0.00185	0.01	No	14	78.57	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.005	0.00122	0.01	No	14	92.86	No	0.01	NP (NDs)
Barium (mg/L)	GC-AP-MW-25	0.0977	0.08646	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.03974	0.03056	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03247	0.02892	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1055	0.09584	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.4409	0.2859	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.06038	0.04439	2	No	14	0	x^(1/3)	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08241	0.06864	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1095	0.09133	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1441	0.07668	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.1805	0.1607	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.1056	0.07573	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.02427	0.01899	2	No	14	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.114	0.0912	2	No	14	0	No	0.01	NP (normality)
Barium (mg/L)	GC-AP-MW-14	0.07622	0.04754	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.02951	0.02372	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.06123	0.04032	2	No	14	0	x^(1/3)	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.2182	0.09272	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1296	0.1102	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.05205	0.03385	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.02484	0.02052	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.01358	0.01238	2	No	14	0	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-33	0.08149	0.04016	2	No	14	0	No	0.01	Param.
Beryllium (mg/L)	GC-AP-MW-25	0.003	0.000715	0.004	No	14	92.86	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-1	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/16/2020, 2:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Beryllium (mg/L)	GC-AP-MW-2	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-3	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-5	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-6	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-7	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-8	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-9	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-10	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-11	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-12	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-13	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-14	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-15	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-16	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-17	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-18	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-21	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-31	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-32	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GC-AP-MW-33	0.003	0.003	0.004	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-25	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-1	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-3	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-5	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-6	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-7	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-8	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-9	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-10	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-12	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-14	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-16	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-17	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-18	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-31	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-32	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-33	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-25	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-2	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-3	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-5	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-6	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-7	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-8	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-9	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-10	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-11	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-12	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-13	0.01	0.00381	0.1	No	14	85.71	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-14	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-15	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-17	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-18	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-21	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-31	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-32	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	GC-AP-MW-33	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-25	0.0114	0.00646	0.0167	No	14	0	No	0.01	NP (normality)
Cobalt (mg/L)	**GC-AP-MW-1**	**0.1017**	**0.0514**	**0.0167**	**Yes**	**14**	**0**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	GC-AP-MW-2	0.01301	0.00946	0.0167	No	14	0	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.004466	0.003823	0.0167	No	14	0	No	0.01	Param.

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/16/2020, 2:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	GC-AP-MW-5	0.0196	0.00545	0.0167	No	14	0	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-6	0.005	0.00228	0.0167	No	14	42.86	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-7	0.005	0.00218	0.0167	No	14	42.86	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-8	0.0138	0.00651	0.0167	No	14	0	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-9	0.01473	0.01078	0.0167	No	14	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.016	0.0135	0.0167	No	14	0	No	0.01	NP (normality)
Cobalt (mg/L)	**GC-AP-MW-11**	**0.04938**	**0.03122**	**0.0167**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	GC-AP-MW-12	0.005	0.005	0.0167	No	14	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-13	0.005	0.005	0.0167	No	14	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-14	0.01808	0.006372	0.0167	No	14	0	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01749	0.01471	0.0167	No	14	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01532	0.01285	0.0167	No	14	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.02468	0.01283	0.0167	No	14	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.01977	0.01511	0.0167	No	14	0	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-21	0.005	0.005	0.0167	No	14	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-31	0.005	0.0024	0.0167	No	14	71.43	No	0.01	NP (normality)
Cobalt (mg/L)	GC-AP-MW-32	0.005	0.005	0.0167	No	14	100	No	0.01	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-33	0.00539	0.0037	0.0167	No	14	42.86	No	0.01	NP (Cohens/xfrm)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	0.7916	0.1761	5	No	14	14.29	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.379	0.9772	5	No	14	7.143	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	0.9287	0.447	5	No	14	14.29	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.266	0.8993	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.142	1.351	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.064	0.3611	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.5	0.56	5	No	14	14.29	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.133	0.5323	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.414	0.7983	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.164	0.6669	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.9257	0.4015	5	No	14	14.29	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.5	0.048	5	No	14	14.29	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	1.25	0.258	5	No	14	14.29	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.161	0.5031	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	1.279	0.03697	5	No	14	14.29	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.104	0.48	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	1.414	0.9053	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.399	0.8694	5	No	14	14.29	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.637	0.126	5	No	14	14.29	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.721	0.1274	5	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	0.5344	0.01683	5	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	1.231	0.5001	5	No	14	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.051	0.037	4	No	15	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-1	0.12	0.04	4	No	15	0	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-2	0.1092	0.07146	4	No	15	6.667	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-3	0.1124	0.08617	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-5	0.2299	0.2092	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2225	0.1859	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.09246	0.07155	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.1176	0.08412	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-9	0.1912	0.1608	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2488	0.2113	4	No	15	0	x^3	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1536	0.11	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2085	0.1647	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1645	0.1191	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.209	0.115	4	No	15	0	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-15	0.1273	0.1017	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.2638	0.2129	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.565	0.376	4	No	15	0	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-18	0.182	0.1546	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.2076	0.1787	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.087	0.05	4	No	15	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-32	0.0518	0.023	4	No	15	40	No	0.01	NP (normality)
Fluoride (mg/L)	GC-AP-MW-33	0.1229	0.07019	4	No	15	46.67	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-25	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-1	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-2	0.005	0.00104	0.015	No	14	92.86	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-3	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-5	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-6	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

Greene County Client: Southern Company Data: Greene County AP Printed 6/16/2020, 2:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	GC-AP-MW-7	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-8	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-10	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-11	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-12	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-13	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-14	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-15	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-16	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-17	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-18	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-21	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lead (mg/L)	GC-AP-MW-33	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-25	0.02	0.02	0.04	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-1	0.02	0.0194	0.04	No	14	92.86	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-2	0.02	0.02	0.04	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-3	0.02	0.02	0.04	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	**GC-AP-MW-5**	**0.1088**	**0.08924**	**0.04**	**Yes**	**14**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	GC-AP-MW-6	0.0518	0.0192	0.04	No	14	35.71	No	0.01	NP (normality)
Lithium (mg/L)	GC-AP-MW-7	0.02	0.02	0.04	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-8	0.05081	0.01965	0.04	No	14	14.29	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.0693	0.0338	0.04	No	14	0	No	0.01	NP (normality)
Lithium (mg/L)	**GC-AP-MW-10**	**0.1209**	**0.1051**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-11**	**0.119**	**0.0683**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-12**	**0.2891**	**0.08728**	**0.04**	**Yes**	**14**	**0**	**x^(1/3)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.3353**	**0.1279**	**0.04**	**Yes**	**14**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.7824**	**0.5098**	**0.04**	**Yes**	**14**	**0**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.7015**	**0.5728**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.5878**	**0.5339**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.6725**	**0.5824**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.655**	**0.369**	**0.04**	**Yes**	**14**	**0**	**No**	**0.01**	**NP (normality)**
Lithium (mg/L)	**GC-AP-MW-21**	**0.2568**	**0.07486**	**0.04**	**Yes**	**14**	**0**	**ln(x)**	**0.01**	**Param.**
Lithium (mg/L)	GC-AP-MW-31	0.02	0.02	0.04	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-32	0.02	0.02	0.04	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	GC-AP-MW-33	0.02	0.02	0.04	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-25	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-1	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-2	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-3	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-5	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-6	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-7	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-8	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-9	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-10	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-11	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-12	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-13	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-14	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-15	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-16	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-17	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-18	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-21	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-31	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-32	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Mercury (mg/L)	GC-AP-MW-33	0.0005	0.0005	0.002	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-25	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-1	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-2	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-3	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.00359	0.002903	0.1	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-7	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-8	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)

Confidence Intervals - All Results

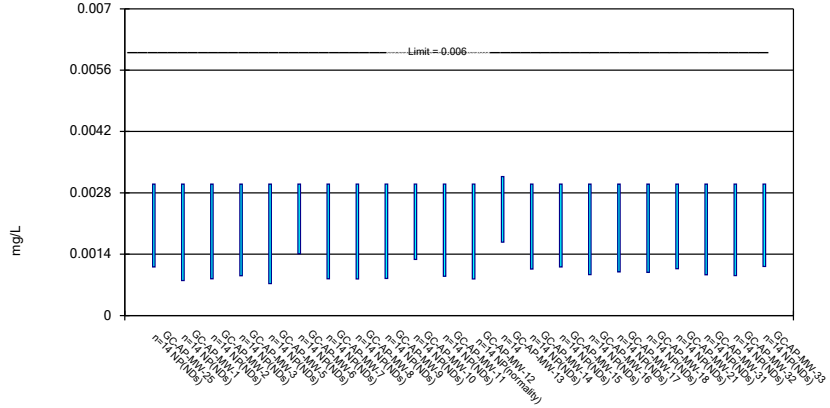
Greene County Client: Southern Company Data: Greene County AP Printed 6/16/2020, 2:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Molybdenum (mg/L)	GC-AP-MW-9	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.01053	0.008246	0.1	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-11	0.0147	0.0058	0.1	No	14	0	No	0.01	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-12	0.1125	0.08797	0.1	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.07842	0.03731	0.1	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01768	0.008484	0.1	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-15	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-16	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-17	0.09008	0.05834	0.1	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-21	0.06985	0.05118	0.1	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-31	0.01	0.00201	0.1	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-32	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-33	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-25	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.01	0.00277	0.05	No	14	78.57	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-2	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-3	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-5	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-6	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-7	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-8	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-9	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-10	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-11	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-12	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.01991	0.007112	0.05	No	14	14.29	ln(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-14	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-15	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-16	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-17	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-18	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-21	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-31	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-32	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.01	0.01	0.05	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-25	0.001	0.000232	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.001	0.000601	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-2	0.001	0.000388	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-3	0.001	0.00038	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-5	0.001	0.000779	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-6	0.001	0.000639	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-7	0.001	0.00042	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-8	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-9	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-10	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-11	0.001	0.000869	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-12	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-13	0.001	0.000215	0.002	No	14	21.43	No	0.01	NP (Cohens/xfrm)
Thallium (mg/L)	GC-AP-MW-14	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-15	0.001	0.000697	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-16	0.00041	0.000278	0.002	No	14	7.143	No	0.01	NP (normality)
Thallium (mg/L)	GC-AP-MW-17	0.001	0.00067	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-18	0.001	0.000404	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-21	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-31	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-32	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	GC-AP-MW-33	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



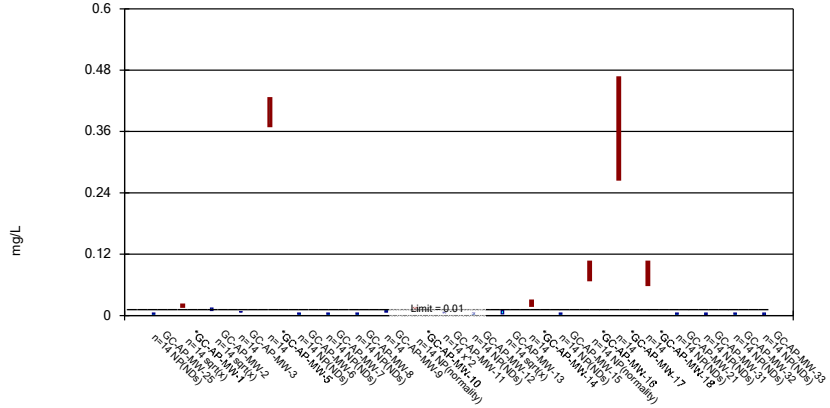
Constituent: Antimony Analysis Run 6/16/2020 2:15 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/16/2020 2:15 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

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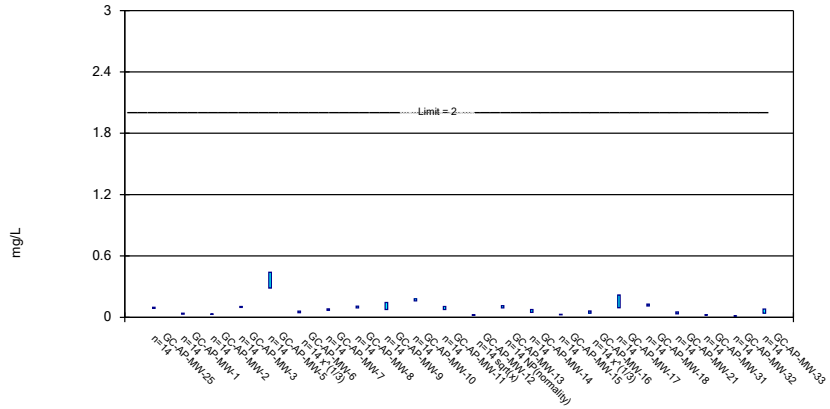
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



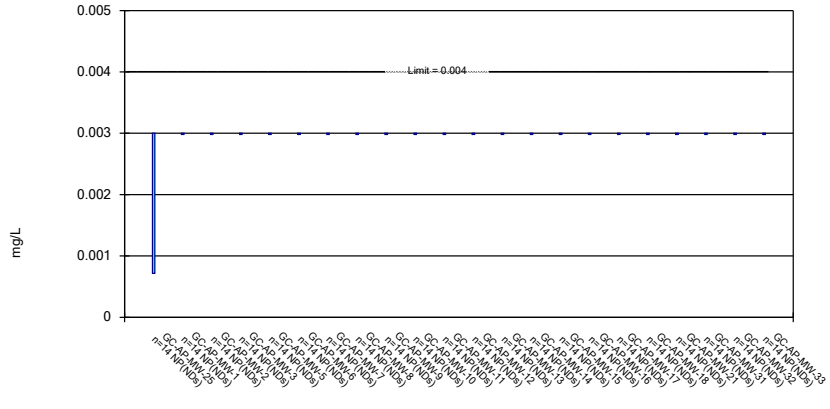
Constituent: Barium Analysis Run 6/16/2020 2:15 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



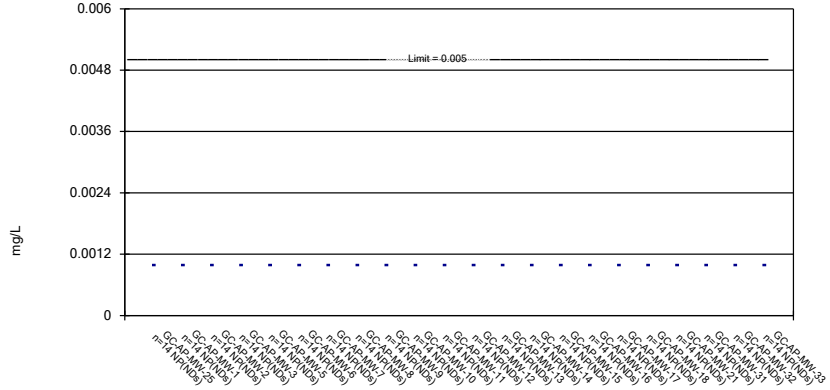
Constituent: Beryllium Analysis Run 6/16/2020 2:15 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



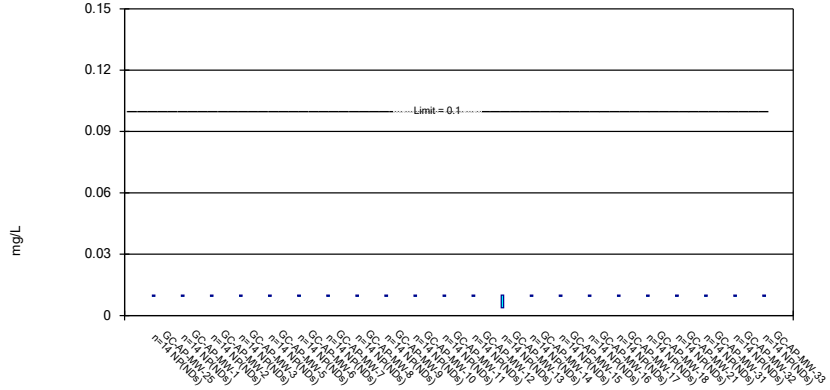
Constituent: Cadmium Analysis Run 6/16/2020 2:15 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



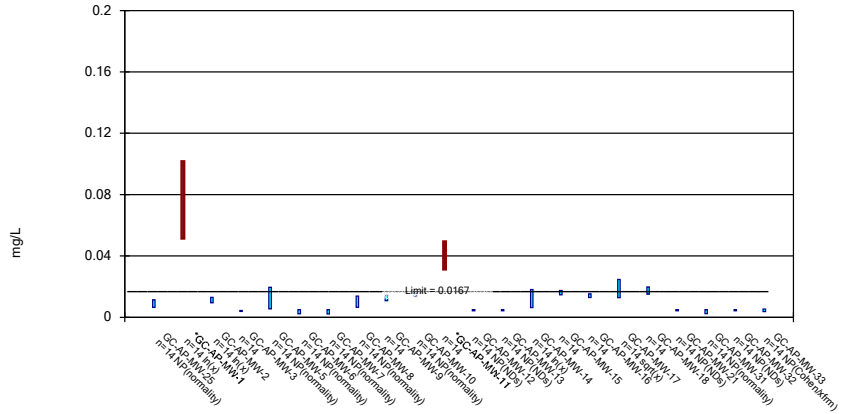
Constituent: Chromium Analysis Run 6/16/2020 2:15 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



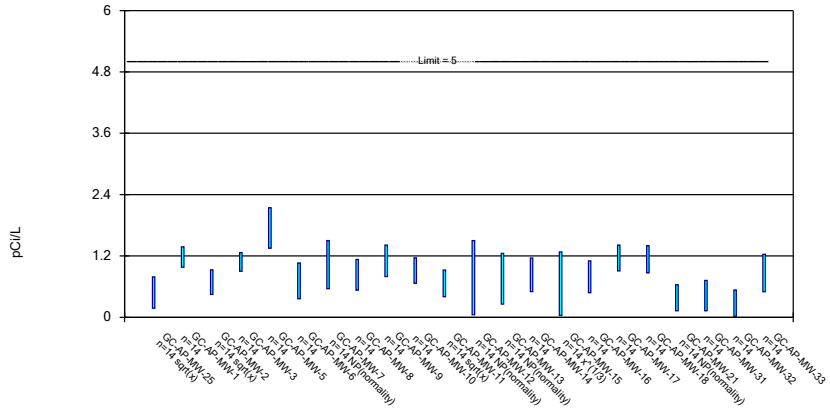
Constituent: Cobalt Analysis Run 6/16/2020 2:15 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



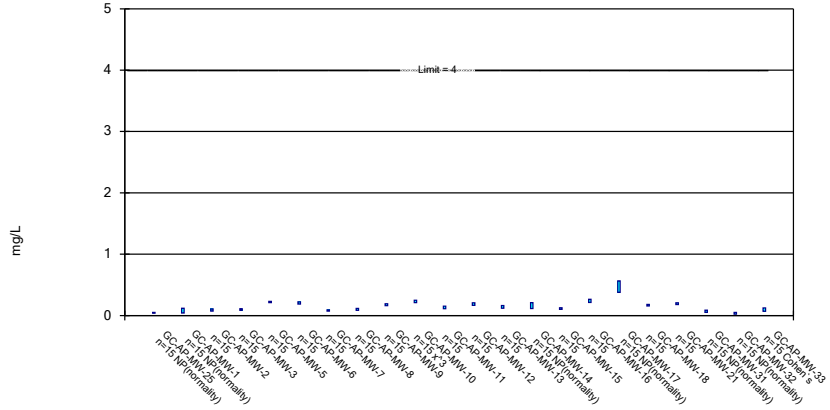
Constituent: Combined Radium 226 + 228 Analysis Run 6/16/2020 2:16 PM View: Confidence Intervals -

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



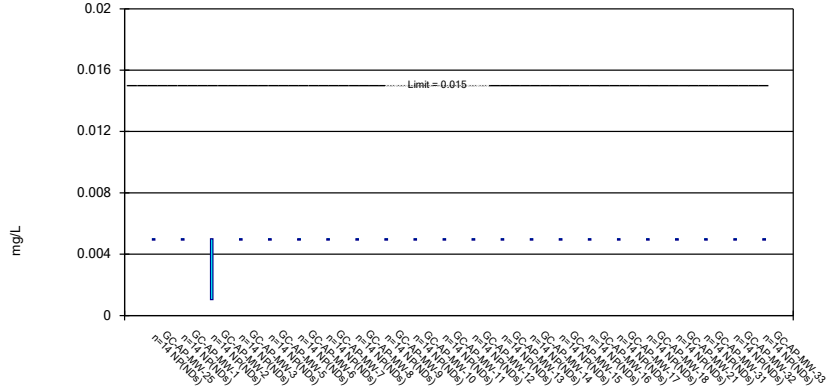
Constituent: Fluoride Analysis Run 6/16/2020 2:16 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



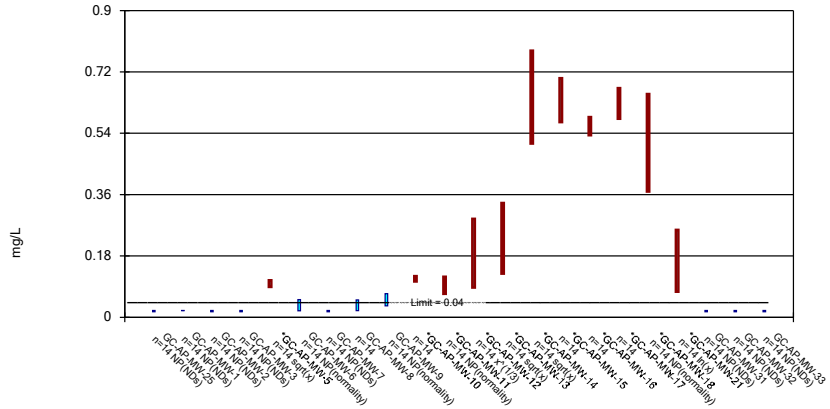
Constituent: Lead Analysis Run 6/16/2020 2:16 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



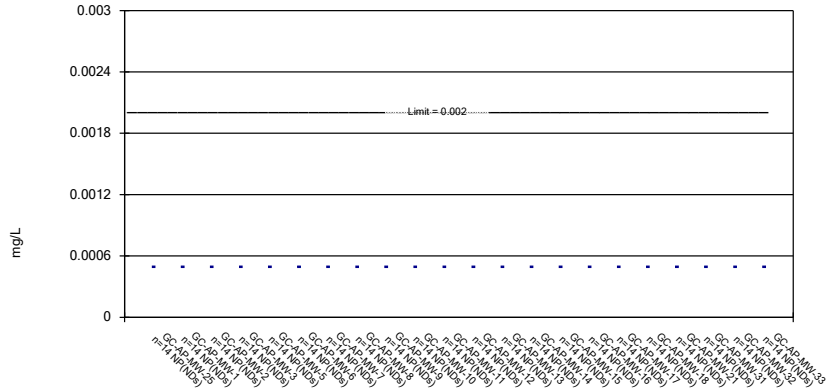
Constituent: Lithium Analysis Run 6/16/2020 2:16 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



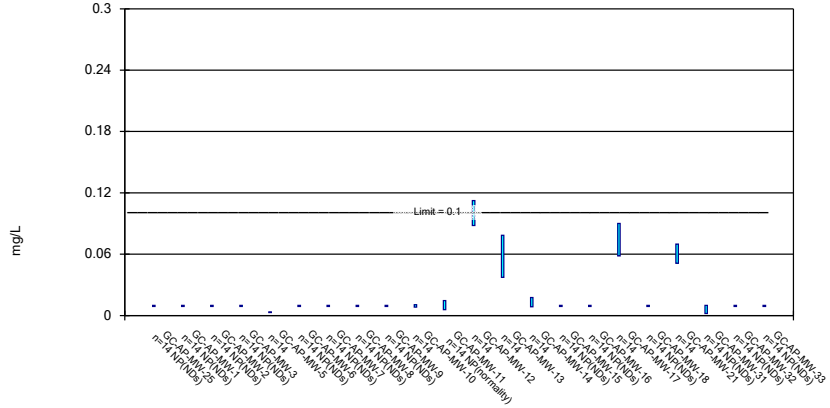
Constituent: Mercury Analysis Run 6/16/2020 2:16 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



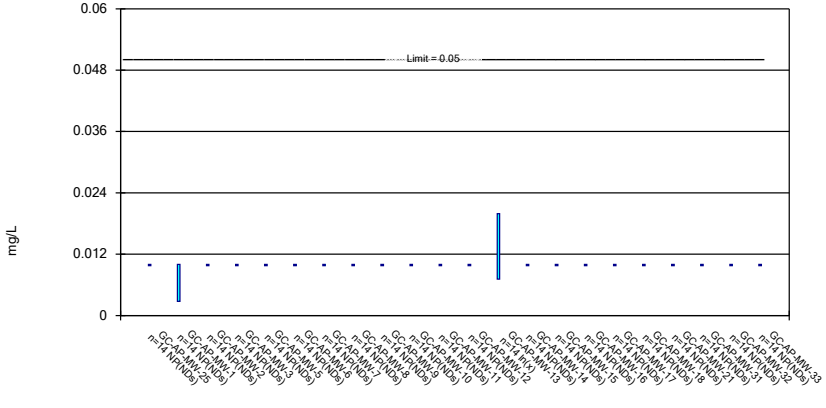
Constituent: Molybdenum Analysis Run 6/16/2020 2:16 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



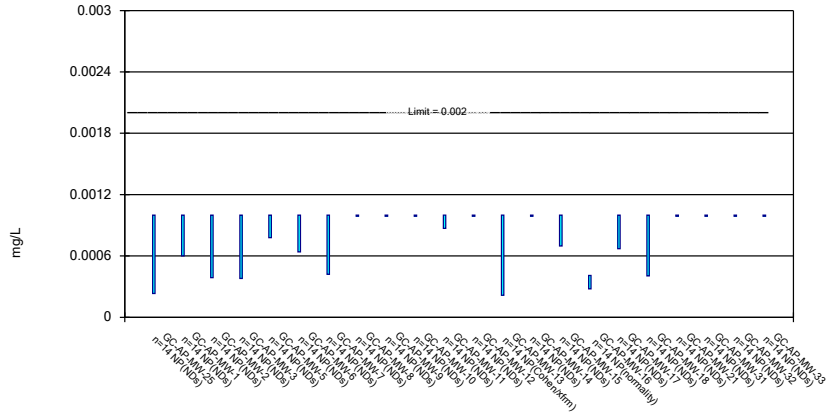
Constituent: Selenium Analysis Run 6/16/2020 2:17 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Non-Parametric Confidence Interval

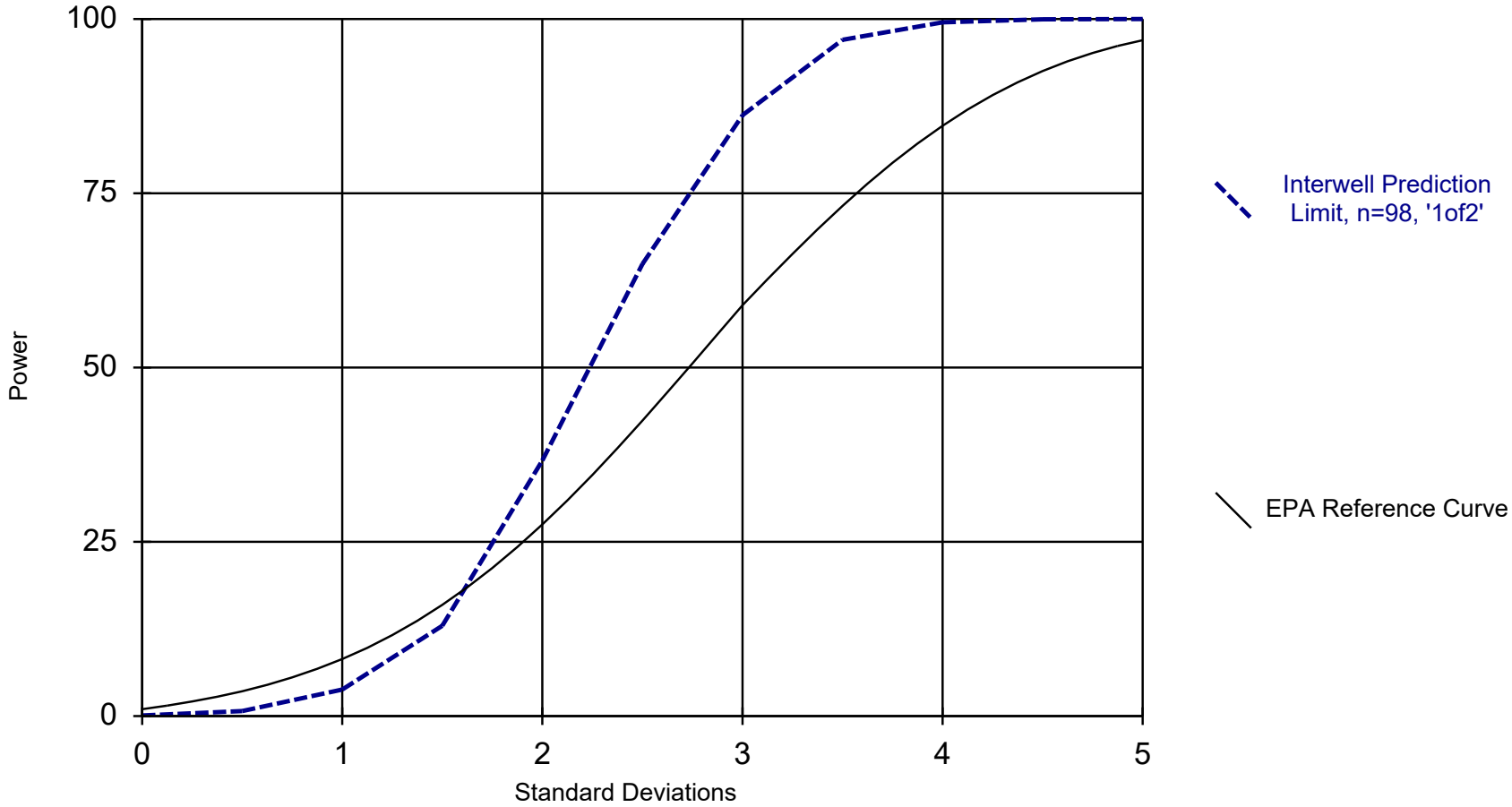
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 6/16/2020 2:17 PM View: Confidence Intervals - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Power Curve



Kappa = 2.15, based on 22 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 6/4/2020 3:48 PM View: Power Curves

Greene County Client: Southern Company Data: Greene County AP

2nd
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING

October 28, 2020

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Greene County Ash Pond
2nd Semi-Annual Analysis – August 2020

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 August 2020 2nd 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 from Electric Utilities (CCR Rule, 2015) as well as with the USEPA Unified Guidance (2009).

Sampling began at 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, and GC-AP-MW-59HO

- **Piezometers:** GC-AP-PZ-19 and GC-AP-PZ-22

Note that delineation wells and piezometers did not require statistics and, therefore, were 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, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Kristina Rayner, Founder and Groundwater Statistician 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 summary of well/constituent pairs with 100% nondetects follows this letter. A substitution of the most recent reporting limit is used for nondetect data.

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 nondetect 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: 105
- # 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 nondetects, 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% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect 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% nondetects.

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 – Conducted in September 2019

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 the trend, as well as for outliers over the entire record. Interwell prediction limits are used to evaluate boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Prior to performing prediction limits, proposed background data through May 2019 were reviewed to identify any newly suspected outliers at all upgradient wells for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Both Tukey's Test and visual screening are 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 are identified by Tukey's test but are not greatly different from the rest of the data are not flagged. Also, outliers that are not identified as important by Tukey's test may be identified visually. 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 flagged values follows this letter.

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 may be seen on the Trend Test Summary Table that accompanied the September 2019 background update. These trends required no adjustments, however, because the period of record is short and/or the magnitudes of the trends were low relative to the average concentrations in background.

One exception to this was upgradient well GC-AP-MW-24 which had significantly increasing trending data for calcium, sulfate, and TDS. However, the current reported observations for calcium and TDS were similar to those observed in upgradient well GC-AP-MW-23; therefore, no adjustments were made to this record for those constituents. Additionally, no adjustments were made for sulfate since the nonparametric prediction limit is determined by the latter part of the record and would not be affected if the earlier data were truncated. However, all of these trends will be monitored in subsequent analyses, and the background records may be adjusted in the future.

Evaluation of Appendix III Parameters – August 2020

Background (upgradient) well data for Appendix III constituents were re-assessed for potential outliers during this analysis. No new values were flagged. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

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 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 there are statistically significant increases (SSIs).

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.

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-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-14, GC-AP-MW-15, and GC-AP-MW-25
- Calcium: GC-AP-MW-24 (upgradient), GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-14, GC-AP-MW-16, and GC-AP-MW-17
- Chloride: GC-AP-MW-9 and GC-AP-MW-18
- Fluoride: GC-AP-MW-6, GC-AP-MW-12, GC-AP-MW-14, and GC-AP-MW-16
- Sulfate: GC-AP-MW-24 (upgradient), GC-AP-MW-28 (upgradient), GC-AP-MW-1, and GC-AP-MW-5
- TDS: GC-AP-MW-24 (upgradient), GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-25

Decreasing:

- Boron: GC-AP-MW-11
- Calcium: GC-AP-MW-29 (upgradient)
- Chloride: GC-AP-MW-25
- pH: GC-AP-MW-23 (upgradient), GC-AP-MW-27 (upgradient), GC-AP-MW-28 (upgradient), GC-AP-MW-29 (upgradient), and GC-AP-MW-30 (upgradient)
- Sulfate: GC-AP-MW-23 (upgradient) and GC-AP-MW-15
- TDS: GC-AP-MW-23 (upgradient) and GC-AP-MW-29 (upgradient)

Evaluation of Appendix IV Parameters – August 2020

Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis and no new outliers were flagged. It was noted that the reported measurements in several upgradient and downgradient wells were slightly elevated during this event.

These well/constituent pairs will continue to be monitored in future evaluations. In all cases, the reported measurements were below the Maximum Contaminant Limit (MCL) of 5 pCi/L. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) utilized during the 2019 2nd semi-annual report were used in the confidence interval analysis for this 2020 2nd semi-annual report. The GWPS will be updated during the 2021 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

First, background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. When data followed a normal or transformed-normal distribution, parametric tolerance limits were used to calculate background limits for Appendix IV parameters using pooled upgradient well data through September 2019 with a target of 95% confidence and 95% coverage (Figure F). Nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% nondetects. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. 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. In future UTL calculations, nonparametric tolerance limits will be used exclusively, as requested by ADEM, to eliminate variation among upgradient well data.

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through August 2020 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 nondetects. Date ranges were set for well/constituent pairs that had more than 8 samples between the dates of 6/27/2017 and 8/19/2020 and a list of those well/constituent pairs follows this report. As mentioned above, well/constituent pairs with 100% nondetects did not require statistics and were, therefore, deselected prior to construction confidence intervals. A list of deselected well/constituent pairs also follows this report. The decision logic, with respect to the use of a parametric or nonparametric confidence interval, is similar to that used to construct tolerance limits as discussed above. 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 (Figure H). 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 and GC-AP-MW-11
- 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,

Andrew Collins
Project Manager

Kristina Rayner
Groundwater Statistician

100% Non-Detects

Analysis Run 10/26/2020 4:00 PM View: Appendix IV
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-7, GC-AP-MW-8, GC-AP-MW-9

Arsenic (mg/L)
GC-AP-MW-12, GC-AP-MW-15, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8

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-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

Chromium (mg/L)
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, 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

Cobalt (mg/L)
GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-21, GC-AP-MW-31, GC-AP-MW-32

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-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

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-1, 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-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

Selenium (mg/L)
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-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

Thallium (mg/L)
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-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

Date Ranges

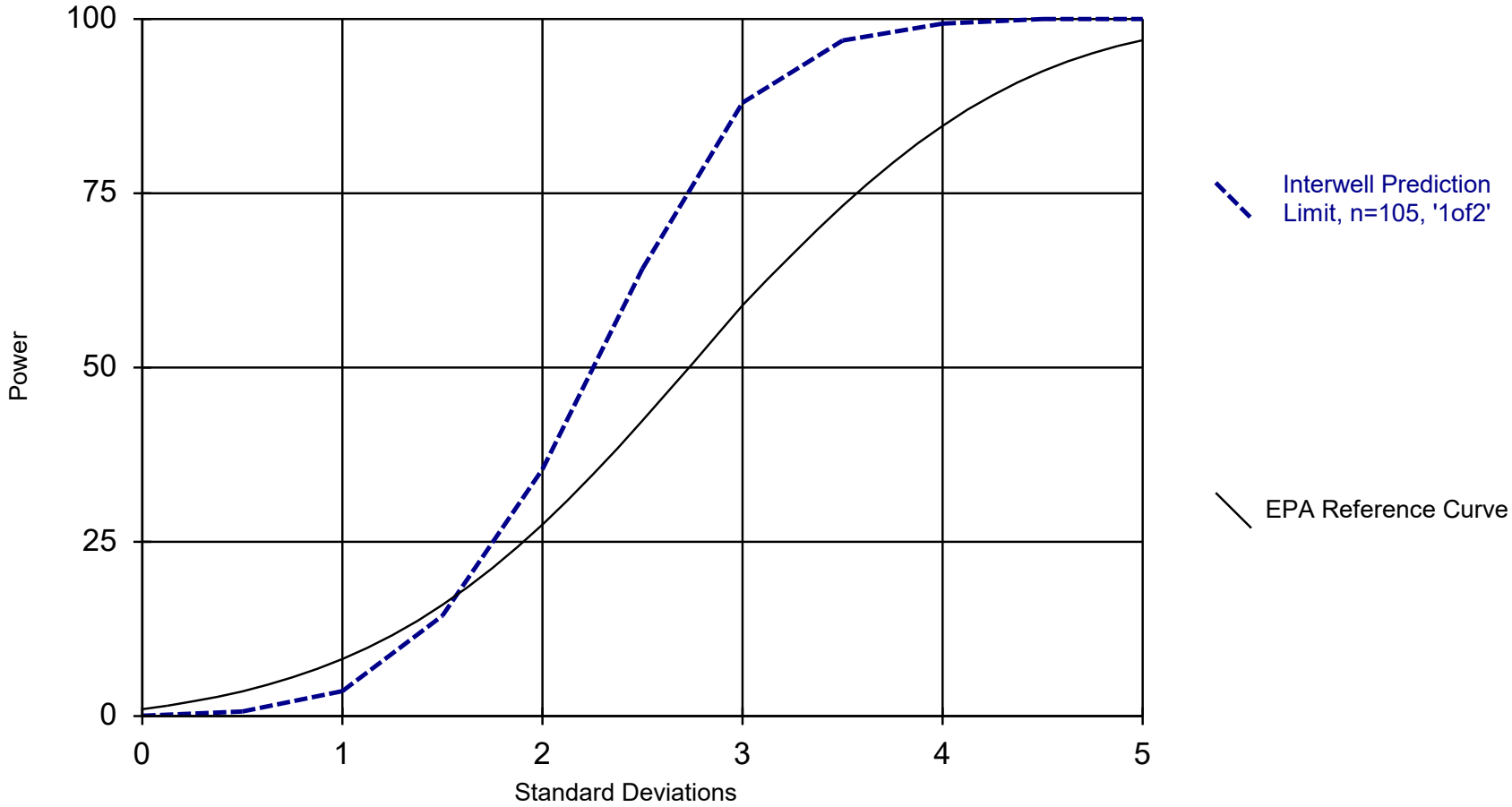
Date: 10/26/2020 5:03 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Fluoride (mg/L)

GC-AP-MW-1 overall:8/29/2017-8/19/2020
GC-AP-MW-10 overall:8/29/2017-8/19/2020
GC-AP-MW-11 overall:8/29/2017-8/19/2020
GC-AP-MW-13 overall:8/29/2017-8/19/2020
GC-AP-MW-14 overall:8/29/2017-8/19/2020
GC-AP-MW-15 overall:8/29/2017-8/19/2020
GC-AP-MW-16 overall:8/29/2017-8/19/2020
GC-AP-MW-17 overall:8/29/2017-8/19/2020
GC-AP-MW-18 overall:8/29/2017-8/19/2020
GC-AP-MW-2 overall:8/29/2017-8/19/2020
GC-AP-MW-21 overall:8/29/2017-8/19/2020
GC-AP-MW-25 overall:8/29/2017-8/19/2020
GC-AP-MW-3 overall:8/29/2017-8/19/2020
GC-AP-MW-31 overall:8/29/2017-8/19/2020
GC-AP-MW-32 overall:8/29/2017-8/19/2020
GC-AP-MW-33 overall:8/29/2017-8/19/2020
GC-AP-MW-5 overall:8/29/2017-8/19/2020
GC-AP-MW-6 overall:8/29/2017-8/19/2020
GC-AP-MW-7 overall:8/29/2017-8/19/2020
GC-AP-MW-8 overall:8/29/2017-8/19/2020
GC-AP-MW-9 overall:8/29/2017-8/19/2020

Power Curve



Kappa = 2.144, based on 22 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 10/26/2020 5:06 PM View: Appendix III & IV

Plant Greene County Client: Southern Company Data: Greene County AP

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 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	0.1	n/a	8/17/2020	0.496	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1	n/a	8/18/2020	1.37	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1	n/a	8/18/2020	0.358	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1	n/a	8/18/2020	0.748	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1	n/a	8/18/2020	0.501	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1	n/a	8/11/2020	1.44	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1	n/a	8/12/2020	0.813	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1	n/a	8/11/2020	1.93	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1	n/a	8/11/2020	2.03	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1	n/a	8/12/2020	1.53	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1	n/a	8/17/2020	0.152	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1	n/a	8/18/2020	0.211	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1	n/a	8/11/2020	0.11	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1	n/a	8/12/2020	0.695	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1	n/a	8/19/2020	1.86	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1	n/a	8/19/2020	0.561	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1	n/a	8/19/2020	1.94	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1	n/a	8/18/2020	1.24	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.7	n/a	8/17/2020	81.5	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.7	n/a	8/18/2020	74.4	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.7	n/a	8/18/2020	42.9	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.7	n/a	8/18/2020	95.3	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.7	n/a	8/11/2020	118	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.7	n/a	8/12/2020	72.2	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.7	n/a	8/11/2020	101	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.7	n/a	8/11/2020	73	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.7	n/a	8/12/2020	85.9	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.7	n/a	8/17/2020	156	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.7	n/a	8/17/2020	78.9	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.7	n/a	8/12/2020	92.2	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.7	n/a	8/19/2020	162	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.7	n/a	8/19/2020	147	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.7	n/a	8/19/2020	98.6	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.7	n/a	8/18/2020	109	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.864	n/a	8/17/2020	23.2	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.864	n/a	8/18/2020	21.3	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.864	n/a	8/18/2020	16.2	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.864	n/a	8/18/2020	6.46	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.864	n/a	8/18/2020	8.24	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.864	n/a	8/11/2020	12.7	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.864	n/a	8/12/2020	11.4	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.864	n/a	8/11/2020	12.1	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.864	n/a	8/11/2020	15.4	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.864	n/a	8/12/2020	24.5	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.864	n/a	8/17/2020	13.1	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.864	n/a	8/11/2020	16.7	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.864	n/a	8/17/2020	24.6	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.864	n/a	8/12/2020	13	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.864	n/a	8/19/2020	39.6	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.864	n/a	8/19/2020	123	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.864	n/a	8/19/2020	70.5	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.864	n/a	8/18/2020	31.4	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	8/18/2020	0.203	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	8/18/2020	0.165	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	8/18/2020	0.223	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	8/11/2020	0.278	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 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-16	0.159	n/a	8/11/2020	0.294	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	8/11/2020	0.515	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	8/12/2020	0.198	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	8/18/2020	0.18	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	8/12/2020	0.221	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	8/19/2020	0.223	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	8/18/2020	0.177	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.9	8/18/2020	6.98	Yes	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	8/17/2020	919	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	8/18/2020	203	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	8/11/2020	242	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	8/12/2020	160	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	8/17/2020	497	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	8/12/2020	132	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	8/19/2020	163	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	8/19/2020	296	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	8/18/2020	115	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	174	n/a	8/17/2020	1590	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	174	n/a	8/18/2020	376	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	174	n/a	8/18/2020	260	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	174	n/a	8/18/2020	250	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	174	n/a	8/18/2020	444	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	174	n/a	8/11/2020	688	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	174	n/a	8/12/2020	401	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	174	n/a	8/11/2020	482	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	174	n/a	8/11/2020	522	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	174	n/a	8/12/2020	390	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	174	n/a	8/17/2020	818	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	174	n/a	8/18/2020	179	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	174	n/a	8/11/2020	193	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	174	n/a	8/17/2020	361	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	174	n/a	8/12/2020	433	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	174	n/a	8/19/2020	788	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	174	n/a	8/19/2020	1050	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	174	n/a	8/19/2020	658	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	174	n/a	8/18/2020	542	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 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**	**0.1**	**n/a**	**8/17/2020**	**0.496**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-10**	**0.1**	**n/a**	**8/18/2020**	**1.37**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-11**	**0.1**	**n/a**	**8/18/2020**	**0.358**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-12**	**0.1**	**n/a**	**8/18/2020**	**0.748**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-13**	**0.1**	**n/a**	**8/18/2020**	**0.501**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-14**	**0.1**	**n/a**	**8/11/2020**	**1.44**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-15**	**0.1**	**n/a**	**8/12/2020**	**0.813**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-16**	**0.1**	**n/a**	**8/11/2020**	**1.93**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-17**	**0.1**	**n/a**	**8/11/2020**	**2.03**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-18**	**0.1**	**n/a**	**8/12/2020**	**1.53**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-2**	**0.1**	**n/a**	**8/17/2020**	**0.152**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-21**	**0.1**	**n/a**	**8/18/2020**	**0.211**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-25**	**0.1**	**n/a**	**8/11/2020**	**0.11**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GC-AP-MW-3	0.1	n/a	8/17/2020	0.0636J	No	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1	n/a	8/11/2020	0.1ND	No	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1	n/a	8/12/2020	0.1ND	No	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1	n/a	8/12/2020	0.1ND	No	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GC-AP-MW-5**	**0.1**	**n/a**	**8/12/2020**	**0.695**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-6**	**0.1**	**n/a**	**8/19/2020**	**1.86**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-7**	**0.1**	**n/a**	**8/19/2020**	**0.561**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-8**	**0.1**	**n/a**	**8/19/2020**	**1.94**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-9**	**0.1**	**n/a**	**8/18/2020**	**1.24**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-1**	**42.7**	**n/a**	**8/17/2020**	**81.5**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-10**	**42.7**	**n/a**	**8/18/2020**	**74.4**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GC-AP-MW-11	42.7	n/a	8/18/2020	37.6	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GC-AP-MW-12**	**42.7**	**n/a**	**8/18/2020**	**42.9**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-13**	**42.7**	**n/a**	**8/18/2020**	**95.3**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-14**	**42.7**	**n/a**	**8/11/2020**	**118**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-15**	**42.7**	**n/a**	**8/12/2020**	**72.2**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-16**	**42.7**	**n/a**	**8/11/2020**	**101**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-17**	**42.7**	**n/a**	**8/11/2020**	**73**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-18**	**42.7**	**n/a**	**8/12/2020**	**85.9**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-2**	**42.7**	**n/a**	**8/17/2020**	**156**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GC-AP-MW-21	42.7	n/a	8/18/2020	25.5	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.7	n/a	8/11/2020	10.7	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GC-AP-MW-3**	**42.7**	**n/a**	**8/17/2020**	**78.9**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GC-AP-MW-31	42.7	n/a	8/11/2020	7.46	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	42.7	n/a	8/12/2020	9.48	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	42.7	n/a	8/12/2020	1.78	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GC-AP-MW-5**	**42.7**	**n/a**	**8/12/2020**	**92.2**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-6**	**42.7**	**n/a**	**8/19/2020**	**162**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-7**	**42.7**	**n/a**	**8/19/2020**	**147**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-8**	**42.7**	**n/a**	**8/19/2020**	**98.6**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-9**	**42.7**	**n/a**	**8/18/2020**	**109**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GC-AP-MW-1**	**5.864**	**n/a**	**8/17/2020**	**23.2**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-10**	**5.864**	**n/a**	**8/18/2020**	**21.3**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-11**	**5.864**	**n/a**	**8/18/2020**	**16.2**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-12**	**5.864**	**n/a**	**8/18/2020**	**6.46**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-13**	**5.864**	**n/a**	**8/18/2020**	**8.24**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-14**	**5.864**	**n/a**	**8/11/2020**	**12.7**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-15**	**5.864**	**n/a**	**8/12/2020**	**11.4**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-16**	**5.864**	**n/a**	**8/11/2020**	**12.1**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-17**	**5.864**	**n/a**	**8/11/2020**	**15.4**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-18**	**5.864**	**n/a**	**8/12/2020**	**24.5**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-2**	**5.864**	**n/a**	**8/17/2020**	**13.1**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	GC-AP-MW-21	5.864	n/a	8/18/2020	5.54	No	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	**GC-AP-MW-25**	**5.864**	**n/a**	**8/11/2020**	**16.7**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-3**	**5.864**	**n/a**	**8/17/2020**	**24.6**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	GC-AP-MW-31	5.864	n/a	8/11/2020	5.45	No	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-32	5.864	n/a	8/12/2020	4.17	No	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-33	5.864	n/a	8/12/2020	4.46	No	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	**GC-AP-MW-5**	**5.864**	**n/a**	**8/12/2020**	**13**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-6**	**5.864**	**n/a**	**8/19/2020**	**39.6**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-7**	**5.864**	**n/a**	**8/19/2020**	**123**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-8**	**5.864**	**n/a**	**8/19/2020**	**70.5**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-9**	**5.864**	**n/a**	**8/18/2020**	**31.4**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	8/17/2020	0.115	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-10**	**0.159**	**n/a**	**8/18/2020**	**0.203**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-11**	**0.159**	**n/a**	**8/18/2020**	**0.165**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-12**	**0.159**	**n/a**	**8/18/2020**	**0.223**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	8/18/2020	0.108	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-14**	**0.159**	**n/a**	**8/11/2020**	**0.278**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	8/12/2020	0.147	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-16**	**0.159**	**n/a**	**8/11/2020**	**0.294**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-17**	**0.159**	**n/a**	**8/11/2020**	**0.515**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-18**	**0.159**	**n/a**	**8/12/2020**	**0.198**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	8/17/2020	0.0753J	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-21**	**0.159**	**n/a**	**8/18/2020**	**0.18**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	8/11/2020	0.1ND	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	8/17/2020	0.148	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	8/11/2020	0.1ND	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	8/12/2020	0.1ND	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	8/12/2020	0.1ND	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-5**	**0.159**	**n/a**	**8/12/2020**	**0.221**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-6**	**0.159**	**n/a**	**8/19/2020**	**0.223**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	8/19/2020	0.103	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	8/19/2020	0.116	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-9**	**0.159**	**n/a**	**8/18/2020**	**0.177**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
pH (SU)	GC-AP-MW-1	6.8	3.9	8/17/2020	5.54	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-10	6.8	3.9	8/18/2020	6.33	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-11	6.8	3.9	8/18/2020	6	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	**GC-AP-MW-12**	**6.8**	**3.9**	**8/18/2020**	**6.98**	**Yes**	**136**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002116**	**NP Inter (normality) 1 of 2**
pH (SU)	GC-AP-MW-13	6.8	3.9	8/18/2020	6.76	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.8	3.9	8/11/2020	6.02	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-15	6.8	3.9	8/12/2020	6.1	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.8	3.9	8/11/2020	6.7	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.8	3.9	8/11/2020	6.71	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-18	6.8	3.9	8/12/2020	6.62	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.8	3.9	8/17/2020	5.91	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.8	3.9	8/18/2020	6.31	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-25	6.8	3.9	8/11/2020	4.81	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.8	3.9	8/17/2020	5.85	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.8	3.9	8/11/2020	5.63	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.8	3.9	8/12/2020	5.84	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.8	3.9	8/12/2020	4.65	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.8	3.9	8/12/2020	6.36	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-6	6.8	3.9	8/19/2020	6.49	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.8	3.9	8/19/2020	6.14	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-8	6.8	3.9	8/19/2020	6.06	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.8	3.9	8/18/2020	6.21	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-1**	**103**	**n/a**	**8/17/2020**	**919**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	8/18/2020	58.6	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 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-11	103	n/a	8/18/2020	81.1	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	8/18/2020	89	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-13**	**103**	**n/a**	**8/18/2020**	**203**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GC-AP-MW-14**	**103**	**n/a**	**8/11/2020**	**242**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GC-AP-MW-15**	**103**	**n/a**	**8/12/2020**	**160**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	8/11/2020	55	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	8/11/2020	46.7	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	8/12/2020	13.8	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-2**	**103**	**n/a**	**8/17/2020**	**497**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	8/18/2020	63.4	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	8/11/2020	79.5	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	8/17/2020	17.3	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	8/11/2020	4.33	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	8/12/2020	2.54	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	8/12/2020	13.6	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-5**	**103**	**n/a**	**8/12/2020**	**132**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GC-AP-MW-6**	**103**	**n/a**	**8/19/2020**	**163**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GC-AP-MW-7**	**103**	**n/a**	**8/19/2020**	**296**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	8/19/2020	44.5	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-9**	**103**	**n/a**	**8/18/2020**	**115**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-1**	**174**	**n/a**	**8/17/2020**	**1590**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-10**	**174**	**n/a**	**8/18/2020**	**376**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-11**	**174**	**n/a**	**8/18/2020**	**260**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-12**	**174**	**n/a**	**8/18/2020**	**250**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-13**	**174**	**n/a**	**8/18/2020**	**444**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-14**	**174**	**n/a**	**8/11/2020**	**688**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-15**	**174**	**n/a**	**8/12/2020**	**401**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-16**	**174**	**n/a**	**8/11/2020**	**482**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-17**	**174**	**n/a**	**8/11/2020**	**522**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-18**	**174**	**n/a**	**8/12/2020**	**390**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-2**	**174**	**n/a**	**8/17/2020**	**818**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-21**	**174**	**n/a**	**8/18/2020**	**179**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-25**	**174**	**n/a**	**8/11/2020**	**193**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-3**	**174**	**n/a**	**8/17/2020**	**361**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	GC-AP-MW-31	174	n/a	8/11/2020	52	No	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	174	n/a	8/12/2020	49.3	No	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	174	n/a	8/12/2020	62	No	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	**GC-AP-MW-5**	**174**	**n/a**	**8/12/2020**	**433**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-6**	**174**	**n/a**	**8/19/2020**	**788**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-7**	**174**	**n/a**	**8/19/2020**	**1050**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-8**	**174**	**n/a**	**8/19/2020**	**658**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-9**	**174**	**n/a**	**8/18/2020**	**542**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**

Trend Tests Summary Table - Prediction Limit Exceedances - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.03379	58	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.09736	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2054	65	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08384	76	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.004258	55	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.02669	56	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-7	0.07166	73	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.08513	69	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2458	96	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	22.41	70	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.629	103	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.488	74	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	8.242	106	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.3651	-82	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.821	98	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	24.53	97	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.8952	65	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-1.324	-91	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	3.624	88	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.01362	60	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02957	68	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01877	66	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.01227	61	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.09045	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1201	-89	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1802	-86	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.6553	-138	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.1633	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	36.2	64	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-10.66	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-2.116	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	23.63	89	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.7084	59	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	32.43	94	58	Yes	16	6.25	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	10.4	63	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	18	80	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	29.13	108	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	39.61	65	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-10.39	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	38.88	84	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	12.82	72	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-10.92	-78	-58	Yes	16	50	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	36.94	84	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	96.66	105	58	Yes	16	0	n/a	n/a	0.01	NP

Trend Tests Summary Table - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**GC-AP-MW-1**	**0.03379**	**58**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-10	-0.01553	-8	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-11**	**-0.09736**	**-63**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-12	-0.02587	-19	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.01155	3	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-14**	**0.2054**	**65**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-15**	**0.08384**	**76**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-16	0.08622	42	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.05594	39	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.07468	-49	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.004402	33	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	-0.01779	-33	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	25	53	No	15	80	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-25**	**0.004258**	**55**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-26 (bg)	0	4	53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	15	53	No	15	86.67	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	4	53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	8	53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-5**	**0.02669**	**56**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-6	-0.06738	-38	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-7**	**0.07166**	**73**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-8**	**0.08513**	**69**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-9**	**0.2458**	**96**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-1	-16.25	-52	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	1.635	28	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	1.265	24	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	3.679	52	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-14**	**22.41**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-15	3.119	54	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-16**	**9.629**	**103**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GC-AP-MW-17**	**9.488**	**74**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-18	-2.373	-28	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	7.225	55	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.687	-56	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-24 (bg)**	**8.242**	**106**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.6529	-46	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	-0.01875	-10	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.2107	-50	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-29 (bg)**	**-0.3651**	**-82**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-3	0.8938	8	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.07143	-24	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-5**	**7.821**	**98**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-6	8.05	45	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	2.85	11	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	1.813	16	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-9**	**24.53**	**97**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-1	-1.318	-23	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	-0.08483	-8	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.9964	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.3084	-11	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-13	-0.5873	-15	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.4882	-31	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-15	0.04169	14	58	No	16	0	n/a	n/a	0.01	NP

Trend Tests Summary Table - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-16	-0.1798	-9	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-0.8317	-16	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-18**	**0.8952**	**65**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-2	0.03522	9	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.06527	-47	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (bg)	0.6567	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-25**	**-1.324**	**-91**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.1623	-37	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.0443	24	58	No	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.1213	-46	-58	No	16	12.5	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.3557	-57	-58	No	16	12.5	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	0	1	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.1981	17	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-0.899	-57	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	0.9068	21	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	3.38	26	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	-5.692	-29	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-9**	**3.624**	**88**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GC-AP-MW-10	-0.003112	-14	-58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-11	0.01327	52	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	**GC-AP-MW-12**	**0.01362**	**60**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**GC-AP-MW-14**	**0.02957**	**68**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**GC-AP-MW-16**	**0.01877**	**66**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GC-AP-MW-17	0.03133	44	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.004866	42	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-21	0.0008898	9	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.00276	32	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0.004644	39	58	No	16	56.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	-0.006055	-13	-38	No	12	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	14	53	No	15	93.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	5	53	No	15	86.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	27	58	No	16	87.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	15	58	No	16	93.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	-0.0001359	-4	-58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	**GC-AP-MW-6**	**0.01227**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GC-AP-MW-9	0.00819	44	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-12	0.01155	23	68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	**GC-AP-MW-23 (bg)**	**-0.09045**	**-105**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	GC-AP-MW-24 (bg)	-0.04888	-63	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (bg)	-0.1672	-74	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	**GC-AP-MW-27 (bg)**	**-0.1201**	**-89**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	**GC-AP-MW-28 (bg)**	**-0.1802**	**-86**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	**GC-AP-MW-29 (bg)**	**-0.6553**	**-138**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	**GC-AP-MW-30 (bg)**	**-0.1633**	**-121**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GC-AP-MW-1**	**36.2**	**64**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-13	1.503	5	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	34.12	58	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-15**	**-10.66**	**-66**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-2	27.21	34	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-23 (bg)**	**-2.116**	**-89**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GC-AP-MW-24 (bg)**	**23.63**	**89**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-2.475	-52	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.2897	36	58	No	16	31.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-28 (bg)**	**0.7084**	**59**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	6	58	No	16	56.25	n/a	n/a	0.01	NP

Trend Tests Summary Table - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	-9	-58	No	16	87.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-5**	**32.43**	**94**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-6	2.587	12	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	17.43	17	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	17.76	37	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	49.51	39	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-10**	**10.4**	**63**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-11**	**18**	**80**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-12	2.345	6	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	6.706	23	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	91.39	49	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	-1.016	-5	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-16**	**29.13**	**108**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-17**	**39.61**	**65**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-18	-20.25	-46	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	24.04	50	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-9.955	-35	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-23 (bg)**	**-10.39**	**-64**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-24 (bg)**	**38.88**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-25**	**12.82**	**72**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-26 (bg)	-6.112	-46	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0	10	58	No	16	31.25	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.836	-43	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-29 (bg)**	**-10.92**	**-78**	**-58**	**Yes**	**16**	**50**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-3	-1.392	-9	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	1.044	25	58	No	16	31.25	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-5**	**36.94**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-6	22.55	23	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	15.86	25	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	-15.7	-20	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-9**	**96.66**	**105**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits - Appendix IV

Greene County Client: Southern Company Data: Greene County AP Printed 7/23/2020, 8:28 AM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	91	n/a	n/a	89.01	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	91	n/a	n/a	85.71	n/a	n/a	0.009394	NP Inter(NDs)
Barium (mg/L)	0.347	n/a	91	n/a	n/a	0	n/a	n/a	0.009394	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	91	n/a	n/a	86.81	n/a	n/a	0.009394	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	91	n/a	n/a	78.02	n/a	n/a	0.009394	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Cobalt (mg/L)	0.0167	n/a	91	n/a	n/a	60.44	n/a	n/a	0.009394	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	1.88	n/a	91	n/a	n/a	4.396	n/a	n/a	0.009394	NP Inter(normal...
Fluoride (mg/L)	0.159	n/a	92	n/a	n/a	61.96	n/a	n/a	0.008924	NP Inter(normal...
Lead (mg/L)	0.005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	91	n/a	n/a	98.9	n/a	n/a	0.009394	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	91	n/a	n/a	91.21	n/a	n/a	0.009394	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	91	n/a	n/a	97.8	n/a	n/a	0.009394	NP Inter(NDs)

Confidence Intervals - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 4:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GC-AP-MW-1**	**0.02541**	**0.01776**	**0.01**	**Yes**	**8**	**0.02159**	**0.003607**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0233**	**0.0121**	**0.01**	**Yes**	**8**	**0.0147**	**0.003646**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-14**	**0.032**	**0.01945**	**0.01**	**Yes**	**8**	**0.02573**	**0.005917**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-16**	**0.09491**	**0.06459**	**0.01**	**Yes**	**8**	**0.07975**	**0.0143**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.6034**	**0.3086**	**0.01**	**Yes**	**8**	**0.456**	**0.1391**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.0672**	**0.0477**	**0.01**	**Yes**	**8**	**0.05513**	**0.008678**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4541**	**0.3859**	**0.01**	**Yes**	**8**	**0.42**	**0.0322**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-1**	**0.1844**	**0.0658**	**0.0167**	**Yes**	**8**	**0.1223**	**0.0599**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-11**	**0.05068**	**0.01787**	**0.0167**	**Yes**	**8**	**0.03428**	**0.01547**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-10**	**0.1218**	**0.1018**	**0.04**	**Yes**	**8**	**0.1118**	**0.009398**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-11**	**0.1261**	**0.08972**	**0.04**	**Yes**	**8**	**0.1079**	**0.01953**	**0**	**None**	**x^2**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-12**	**0.1314**	**0.05134**	**0.04**	**Yes**	**8**	**0.09138**	**0.03777**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.2993**	**0.06302**	**0.04**	**Yes**	**8**	**0.1812**	**0.1114**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.9775**	**0.5567**	**0.04**	**Yes**	**8**	**0.7639**	**0.2084**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.6057**	**0.5283**	**0.04**	**Yes**	**8**	**0.567**	**0.03648**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.6015**	**0.5122**	**0.04**	**Yes**	**8**	**0.5569**	**0.04211**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.663**	**0.534**	**0.04**	**Yes**	**8**	**0.5985**	**0.06089**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.4186**	**0.3349**	**0.04**	**Yes**	**8**	**0.3768**	**0.03949**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-21**	**0.09196**	**0.05354**	**0.04**	**Yes**	**8**	**0.07275**	**0.01812**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-5**	**0.1282**	**0.09573**	**0.04**	**Yes**	**8**	**0.112**	**0.01532**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 4:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-12	0.003	0.000656	0.006	No	8	0.002194	0.001125	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.00374	0.002128	0.006	No	8	0.002934	0.0007607	0	None	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-17	0.003	0.000897	0.006	No	8	0.002737	0.0007435	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.003	0.000964	0.006	No	8	0.002746	0.0007198	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.003	0.00141	0.006	No	8	0.002801	0.0005621	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	**GC-AP-MW-1**	**0.02541**	**0.01776**	**0.01**	**Yes**	**8**	**0.02159**	**0.003607**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0233**	**0.0121**	**0.01**	**Yes**	**8**	**0.0147**	**0.003646**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Arsenic (mg/L)	GC-AP-MW-11	0.007197	0.003435	0.01	No	8	0.005316	0.001775	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-13	0.005285	0.001727	0.01	No	8	0.003506	0.001678	0	None	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-14**	**0.032**	**0.01945**	**0.01**	**Yes**	**8**	**0.02573**	**0.005917**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-16**	**0.09491**	**0.06459**	**0.01**	**Yes**	**8**	**0.07975**	**0.0143**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.6034**	**0.3086**	**0.01**	**Yes**	**8**	**0.456**	**0.1391**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.0672**	**0.0477**	**0.01**	**Yes**	**8**	**0.05513**	**0.008678**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Arsenic (mg/L)	GC-AP-MW-2	0.01593	0.007456	0.01	No	8	0.0116	0.004609	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.008372	0.006433	0.01	No	8	0.007403	0.0009148	0	None	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4541**	**0.3859**	**0.01**	**Yes**	**8**	**0.42**	**0.0322**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-9	0.01086	0.008421	0.01	No	8	0.009643	0.001153	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.037	0.02302	2	No	8	0.03001	0.006596	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.2044	0.1544	2	No	8	0.1794	0.02361	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.09423	0.05929	2	No	8	0.07676	0.01648	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.02759	0.01791	2	No	8	0.02275	0.00457	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.275	0.0874	2	No	8	0.1351	0.06656	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-14	0.09233	0.06182	2	No	8	0.07708	0.01439	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.03435	0.0245	2	No	8	0.02943	0.004642	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.08702	0.0457	2	No	8	0.06636	0.01949	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3046	0.1569	2	No	8	0.2308	0.06972	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1325	0.09054	2	No	8	0.1115	0.01979	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03527	0.02776	2	No	8	0.03151	0.003543	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.06345	0.0343	2	No	8	0.04888	0.01375	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1073	0.0829	2	No	8	0.09509	0.0115	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.139	0.0936	2	No	8	0.1055	0.01513	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-31	0.02725	0.0221	2	No	8	0.02468	0.002431	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.01396	0.01234	2	No	8	0.01315	0.0007597	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-33	0.09555	0.06678	2	No	8	0.08116	0.01357	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.3878	0.1549	2	No	8	0.2714	0.1099	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.07725	0.04488	2	No	8	0.06106	0.01527	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.0843	0.06377	2	No	8	0.07404	0.009683	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1138	0.07993	2	No	8	0.09685	0.01596	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1893	0.1059	2	No	8	0.1476	0.03933	0	None	No	0.01	Param.
Chromium (mg/L)	GC-AP-MW-13	0.01	0.00219	0.1	No	8	0.009024	0.002761	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	**GC-AP-MW-1**	**0.1844**	**0.0658**	**0.0167**	**Yes**	**8**	**0.1223**	**0.0599**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	GC-AP-MW-10	0.0287	0.0134	0.0167	No	8	0.01778	0.005563	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	**GC-AP-MW-11**	**0.05068**	**0.01787**	**0.0167**	**Yes**	**8**	**0.03428**	**0.01547**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	GC-AP-MW-14	0.03492	0.01252	0.0167	No	8	0.02372	0.01057	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.0193	0.0153	0.0167	No	8	0.0173	0.001885	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01655	0.01268	0.0167	No	8	0.01461	0.001825	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.0346	0.01007	0.0167	No	8	0.02234	0.01157	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.01701	0.01389	0.0167	No	8	0.01545	0.001468	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.01997	0.00778	0.0167	No	8	0.01388	0.00575	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-25	0.0133	0.00712	0.0167	No	8	0.009994	0.002741	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-3	0.004633	0.003164	0.0167	No	8	0.003899	0.000693	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-33	0.0025	0.00247	0.0167	No	8	0.002496	0.00001061	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.007162	0.004956	0.0167	No	8	0.006059	0.001041	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.002863	0.002237	0.0167	No	8	0.002537	0.000274	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003937	0.002174	0.0167	No	8	0.002841	0.0008075	37.5	Kaplan-Meier	ln(x)	0.01	Param.

Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 4:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GC-AP-MW-8	0.01203	0.00499	0.0167	No	8	0.008509	0.00332	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.01733	0.01235	0.0167	No	8	0.01484	0.002351	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.394	0.8094	5	No	8	1.102	0.276	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.13	0.468	5	No	8	0.799	0.3123	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.7327	0.3418	5	No	8	0.5373	0.1844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.182	0.0002105	5	No	8	0.4287	0.6229	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.8074	0.2543	5	No	8	0.5218	0.3174	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.448	0.6261	5	No	8	1.037	0.3876	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	3.99	-0.365	5	No	8	0.915	1.307	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.342	0.4298	5	No	8	0.8859	0.4302	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	1.755	0.8799	5	No	8	1.317	0.4128	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.248	0.8196	5	No	8	1.034	0.2023	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	0.8033	0.3586	5	No	8	0.5876	0.2182	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.4729	-0.008802	5	No	8	0.2321	0.2272	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	0.7493	0.03068	5	No	8	0.39	0.339	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.284	0.7715	5	No	8	1.028	0.2419	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.5921	0.1443	5	No	8	0.3682	0.2112	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	1.393	-0.1663	5	No	8	0.4615	1.144	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.438	0.5497	5	No	8	1.494	0.8909	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.043	1.043	5	No	8	1.543	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.221	0.3259	5	No	8	0.7734	0.4222	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.13	0.4904	5	No	8	0.8019	0.339	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	0.9683	0.2912	5	No	8	0.6298	0.3194	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.646	0.5381	5	No	8	1.092	0.5225	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1656	0.04087	4	No	8	0.1033	0.05885	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2575	0.2097	4	No	8	0.2336	0.02253	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1792	0.125	4	No	8	0.1521	0.02556	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2303	0.1801	4	No	9	0.2052	0.02599	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1635	0.08602	4	No	8	0.1247	0.03653	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.2599	0.1398	4	No	8	0.1999	0.05668	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1426	0.1054	4	No	8	0.124	0.01754	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.3001	0.2379	4	No	8	0.269	0.02932	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.5753	0.4122	4	No	8	0.4938	0.0769	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.1989	0.1606	4	No	8	0.1798	0.01804	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.163	0.07	4	No	8	0.09541	0.03275	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-21	0.2224	0.1791	4	No	8	0.2008	0.02043	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.05	0.05	4	No	8	0.05	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-3	0.135	0.09526	4	No	8	0.1151	0.01874	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.05	0.05	4	No	8	0.05	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.0518	0.04	4	No	8	0.04648	0.005396	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-33	0.1	0.05	4	No	8	0.06625	0.01923	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-5	0.2412	0.207	4	No	8	0.2241	0.01615	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.253	0.218	4	No	8	0.2264	0.0115	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-7	0.1011	0.07892	4	No	8	0.09001	0.01047	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.162	0.11	4	No	8	0.1181	0.01788	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.2068	0.1756	4	No	8	0.1911	0.01499	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	**GC-AP-MW-10**	**0.1218**	**0.1018**	**0.04**	**Yes**	**8**	**0.1118**	**0.009398**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-11**	**0.1261**	**0.08972**	**0.04**	**Yes**	**8**	**0.1079**	**0.01953**	**0**	**None**	**x^2**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-12**	**0.1314**	**0.05134**	**0.04**	**Yes**	**8**	**0.09138**	**0.03777**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.2993**	**0.06302**	**0.04**	**Yes**	**8**	**0.1812**	**0.1114**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.9775**	**0.5567**	**0.04**	**Yes**	**8**	**0.7639**	**0.2084**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.6057**	**0.5283**	**0.04**	**Yes**	**8**	**0.567**	**0.03648**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.6015**	**0.5122**	**0.04**	**Yes**	**8**	**0.5569**	**0.04211**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.663**	**0.534**	**0.04**	**Yes**	**8**	**0.5985**	**0.06089**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.4186**	**0.3349**	**0.04**	**Yes**	**8**	**0.3768**	**0.03949**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

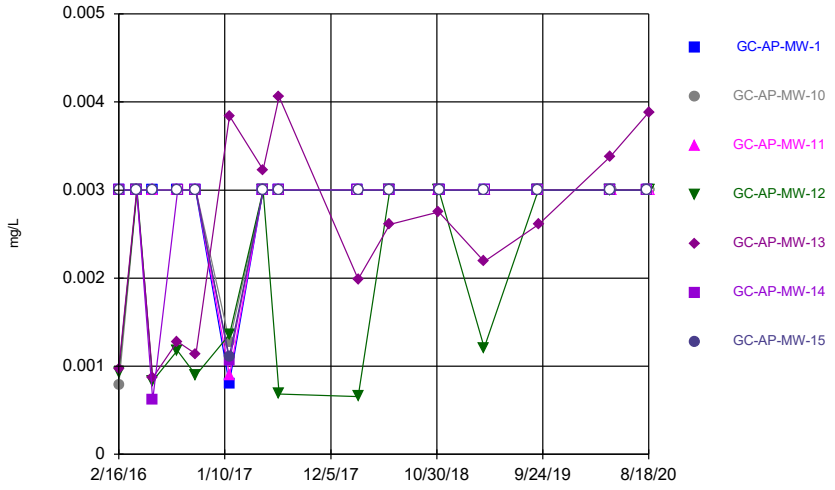
Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 4:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**GC-AP-MW-21**	**0.09196**	**0.05354**	**0.04**	**Yes**	**8**	**0.07275**	**0.01812**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-5**	**0.1282**	**0.09573**	**0.04**	**Yes**	**8**	**0.112**	**0.01532**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	GC-AP-MW-6	0.03938	0.01471	0.04	No	8	0.02671	0.0128	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.07098	0.02714	0.04	No	8	0.04906	0.02068	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.09928	0.0293	0.04	No	8	0.06429	0.03301	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-10	0.011	0.00747	0.1	No	8	0.008388	0.001397	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-11	0.01732	0.007672	0.1	No	8	0.0125	0.00455	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.1185	0.08107	0.1	No	8	0.09976	0.01763	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.09671	0.01907	0.1	No	8	0.05624	0.04278	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01564	0.00941	0.1	No	8	0.01253	0.002941	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-17	0.08177	0.04176	0.1	No	8	0.06176	0.01887	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-21	0.07351	0.05121	0.1	No	8	0.06236	0.01052	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-5	0.003726	0.002639	0.1	No	8	0.003183	0.0005123	0	None	No	0.01	Param.
Selenium (mg/L)	GC-AP-MW-1	0.01	0.00206	0.05	No	8	0.008015	0.003676	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.01467	0.003843	0.05	No	8	0.01012	0.006207	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Thallium (mg/L)	GC-AP-MW-13	0.001249	0.0001838	0.002	No	8	0.0006918	0.000659	12.5	None	x^(1/3)	0.01	Param.
Thallium (mg/L)	GC-AP-MW-16	0.0003861	0.0002936	0.002	No	8	0.0003399	0.00004365	0	None	No	0.01	Param.

FIGURE A.

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

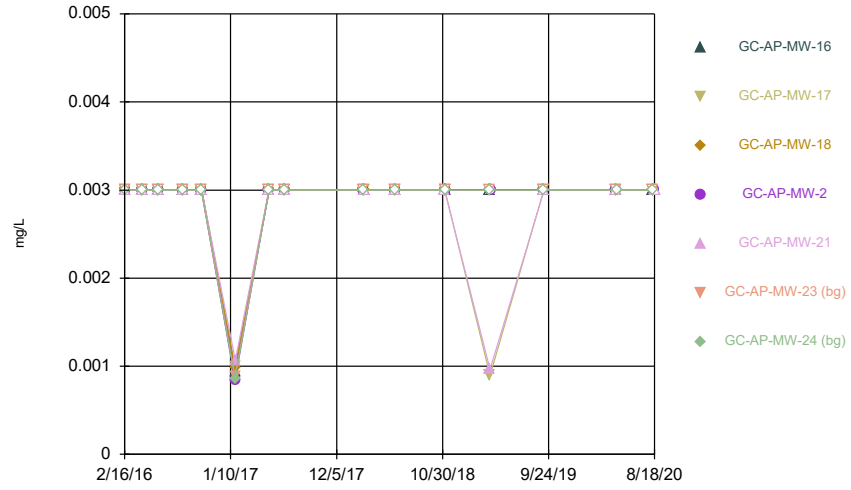
Time Series



Constituent: Antimony Analysis Run 10/26/2020 4:51 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

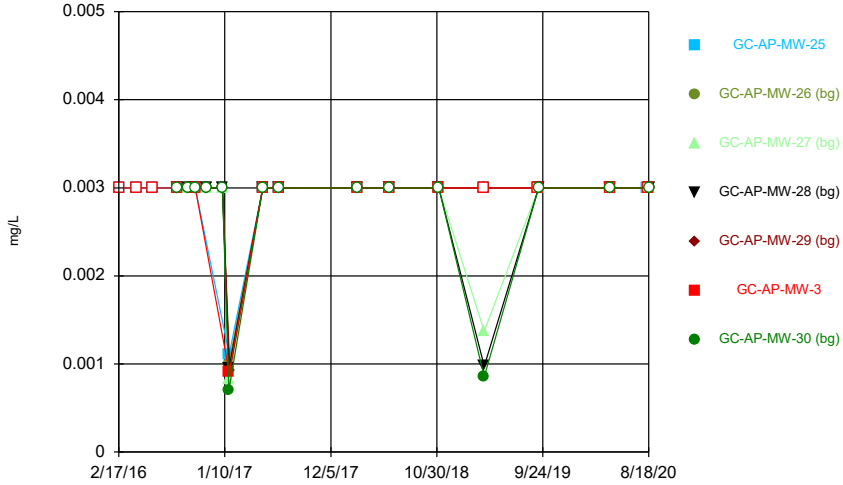
Time Series



Constituent: Antimony Analysis Run 10/26/2020 4:51 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

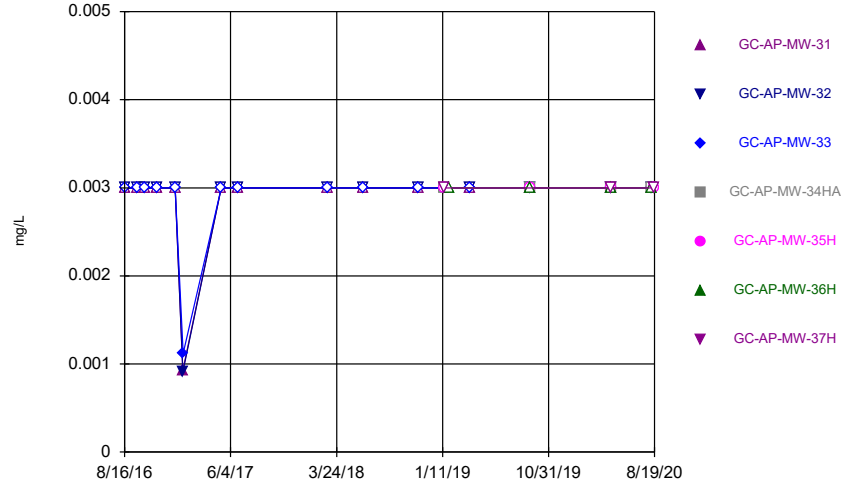
Time Series



Constituent: Antimony Analysis Run 10/26/2020 4:51 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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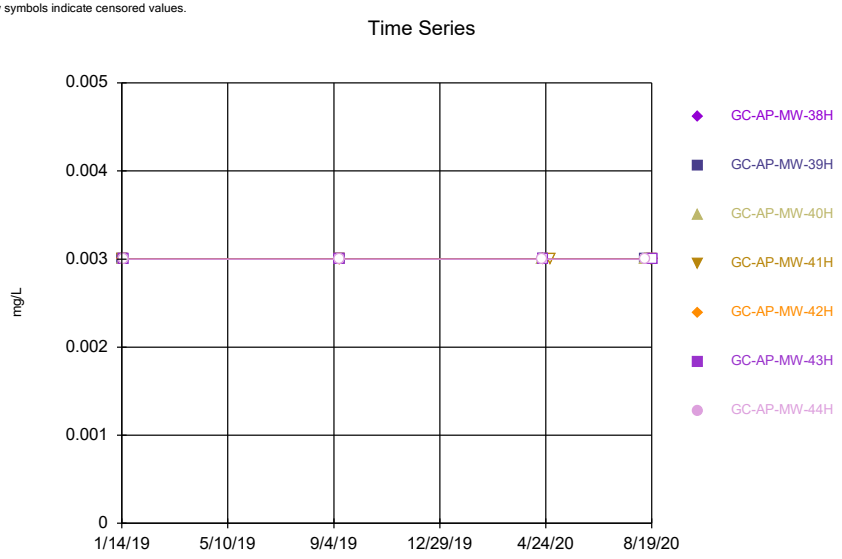
Hollow symbols indicate censored values.



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Plant Greene County Client: Southern Company Data: Greene County AP

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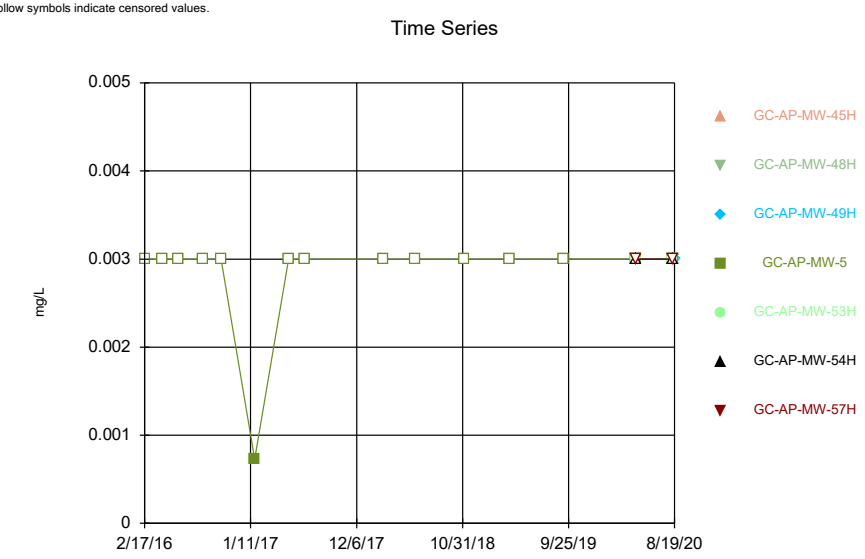

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Plant Greene County Client: Southern Company Data: Greene County AP

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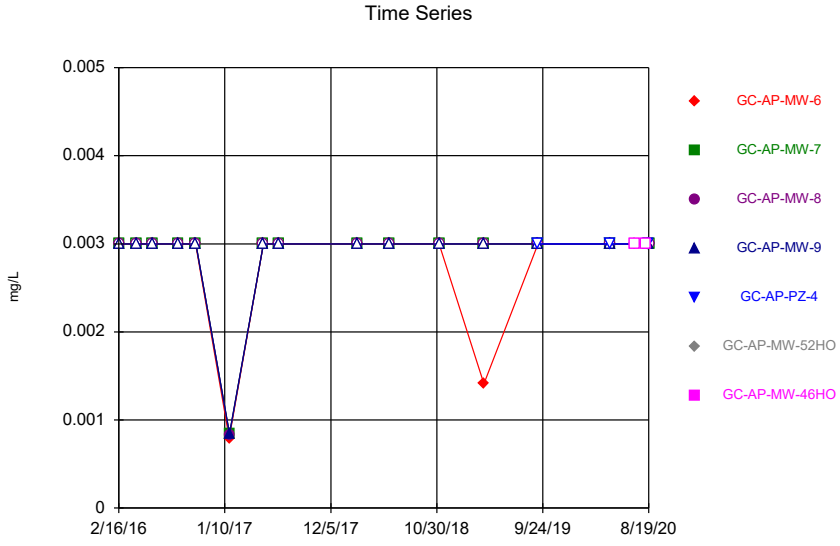

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Plant Greene County Client: Southern Company Data: Greene County AP

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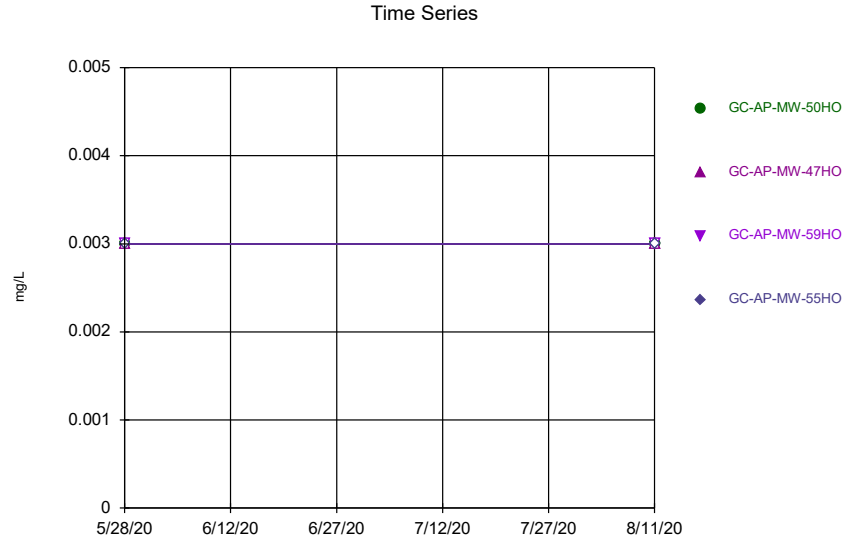

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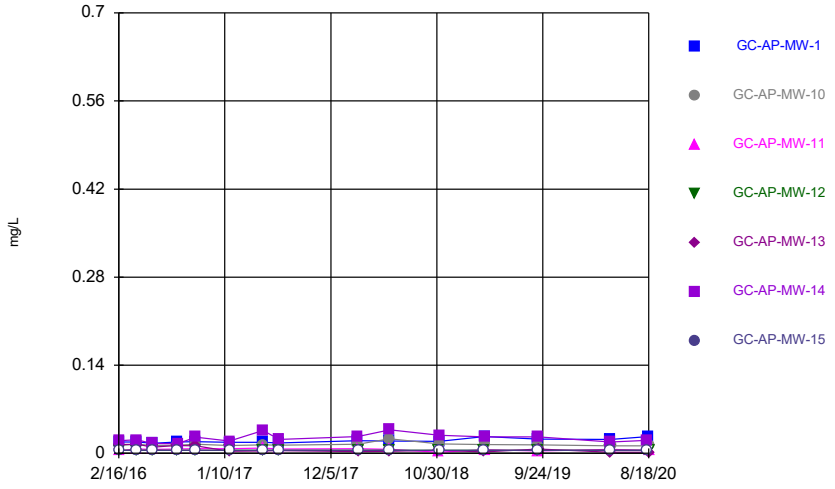
Hollow symbols indicate censored values.

Time Series



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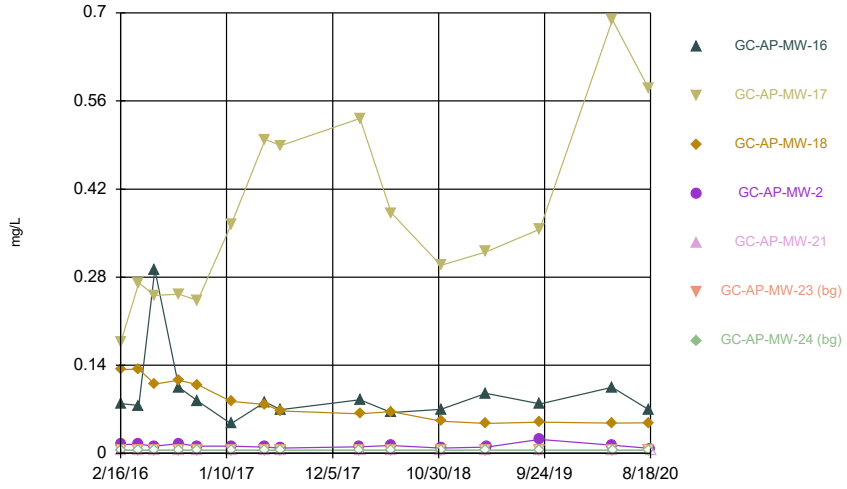

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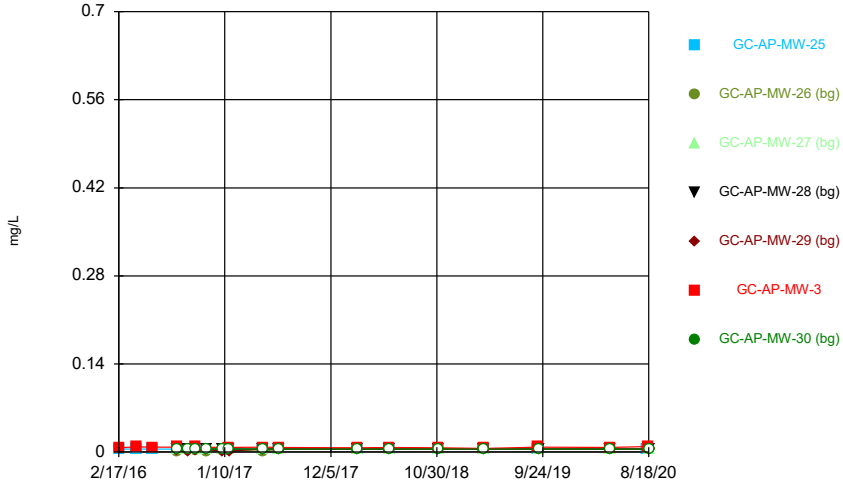

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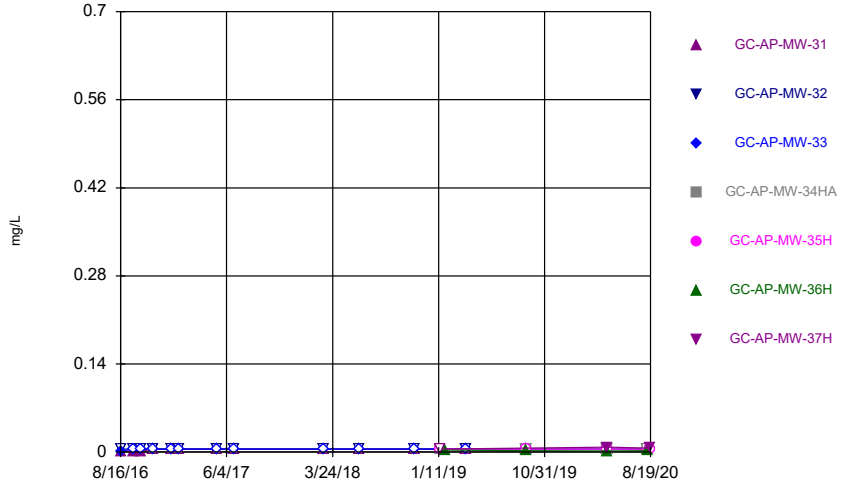

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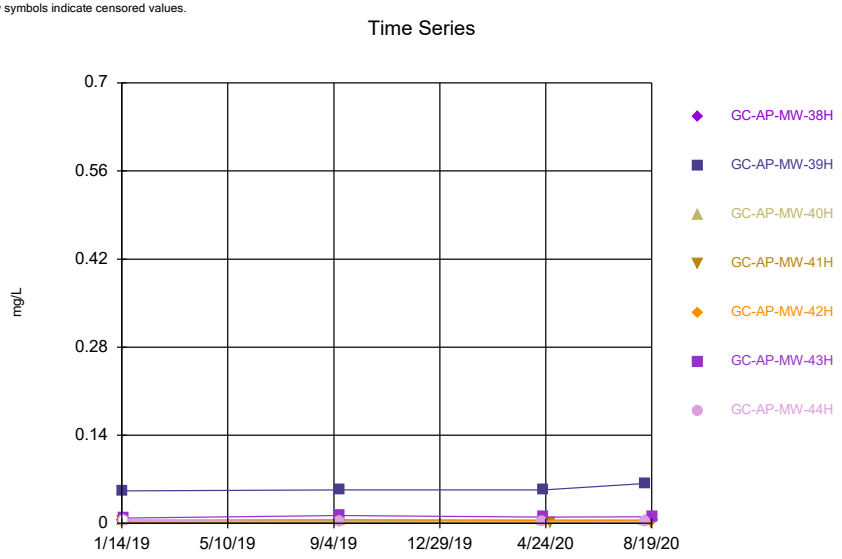

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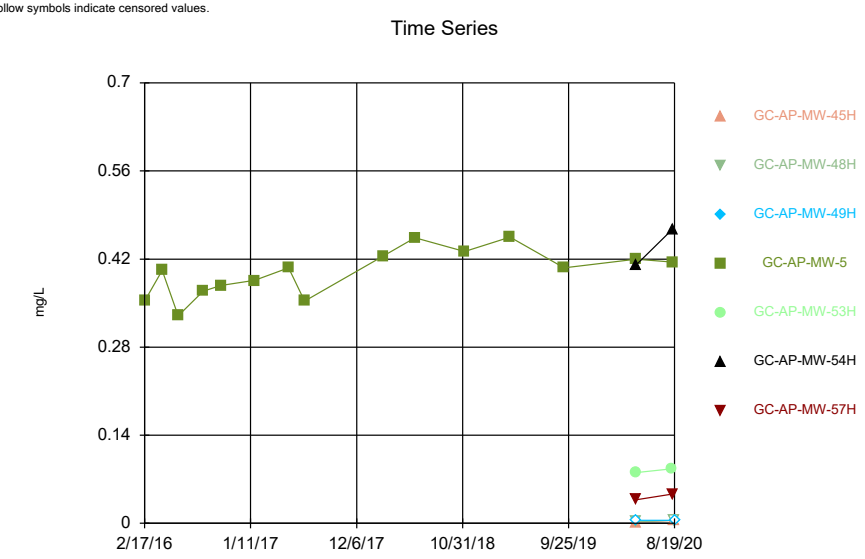

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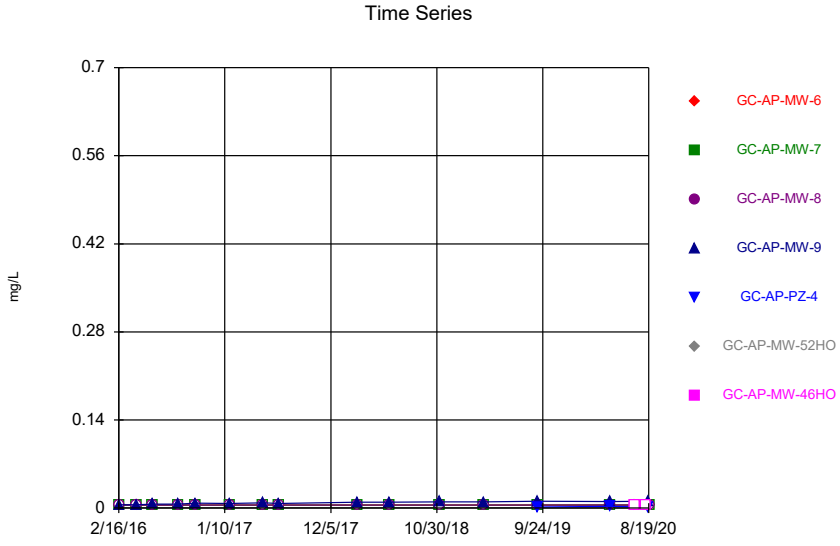

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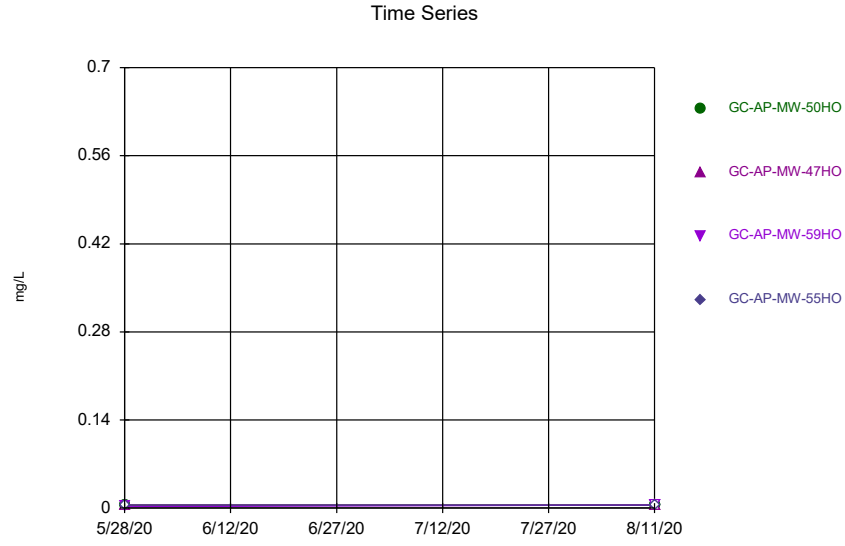

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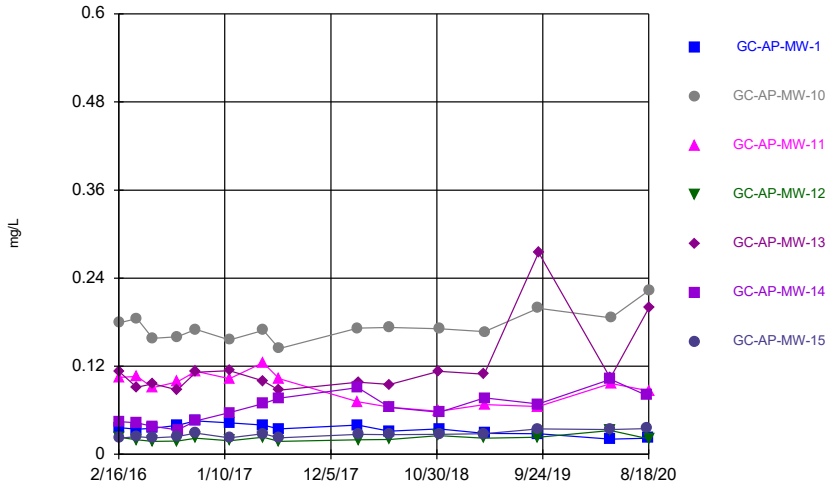
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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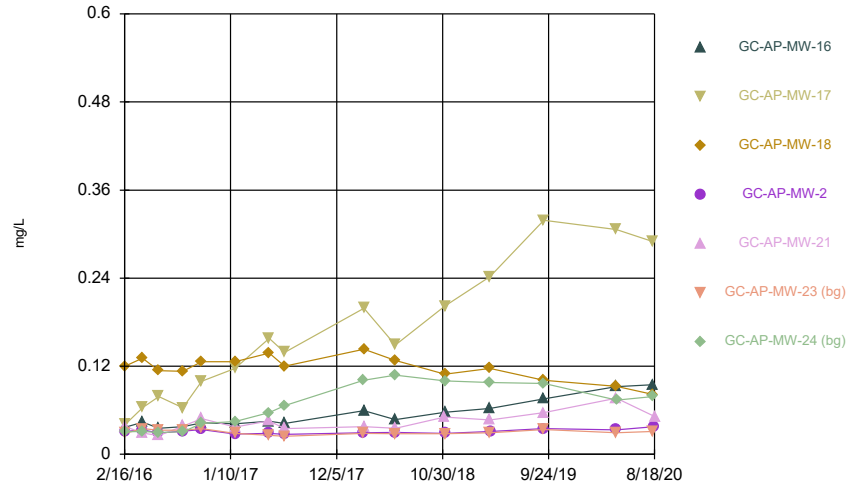
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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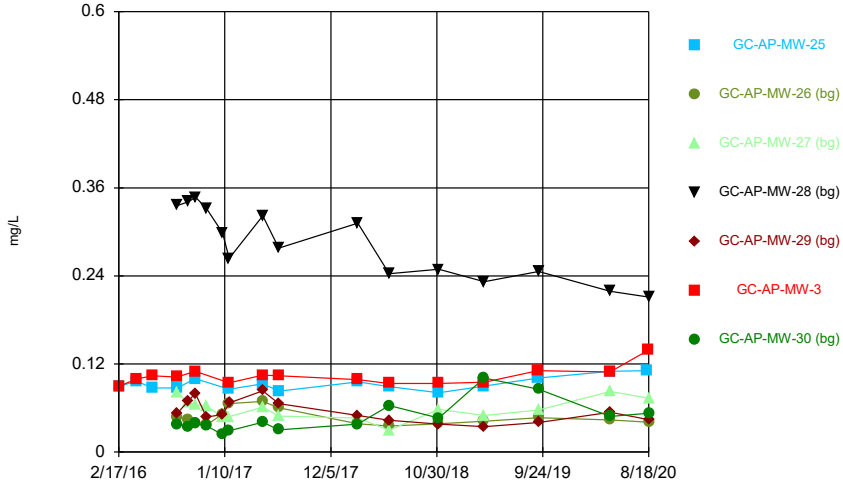
Time Series



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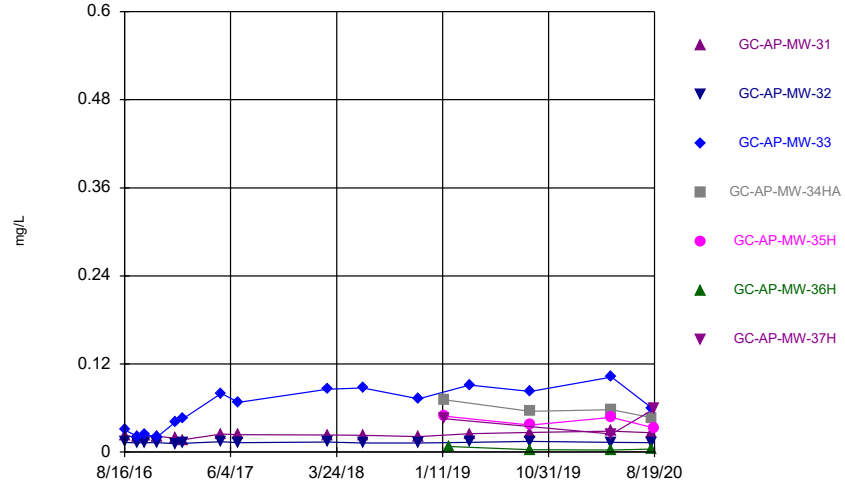
Time Series



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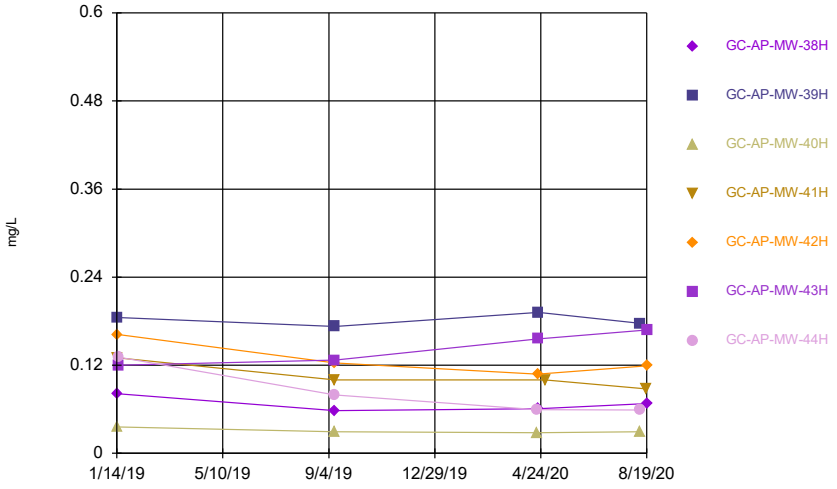
Time Series



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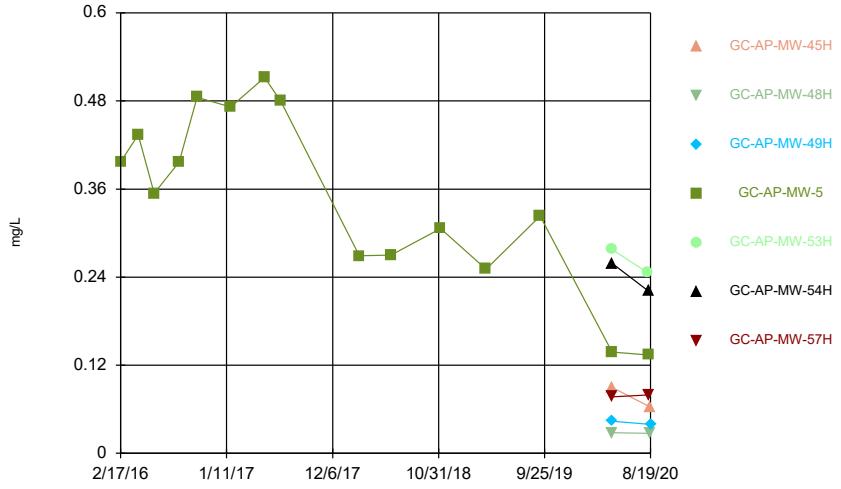
Time Series



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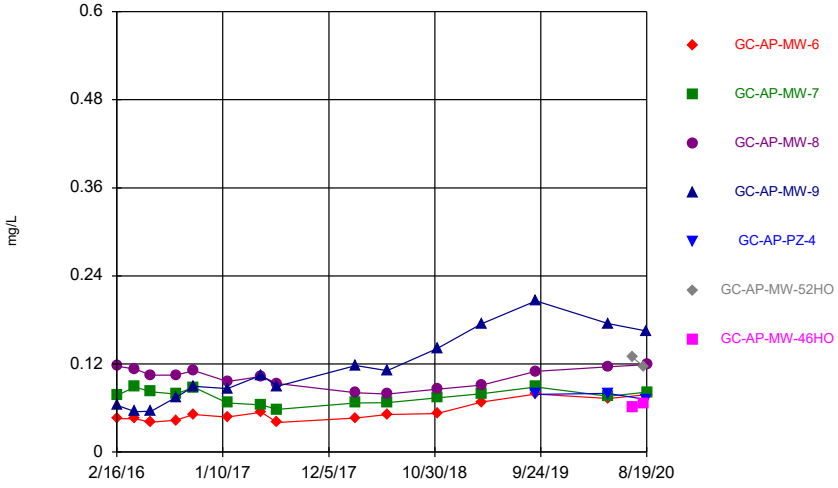

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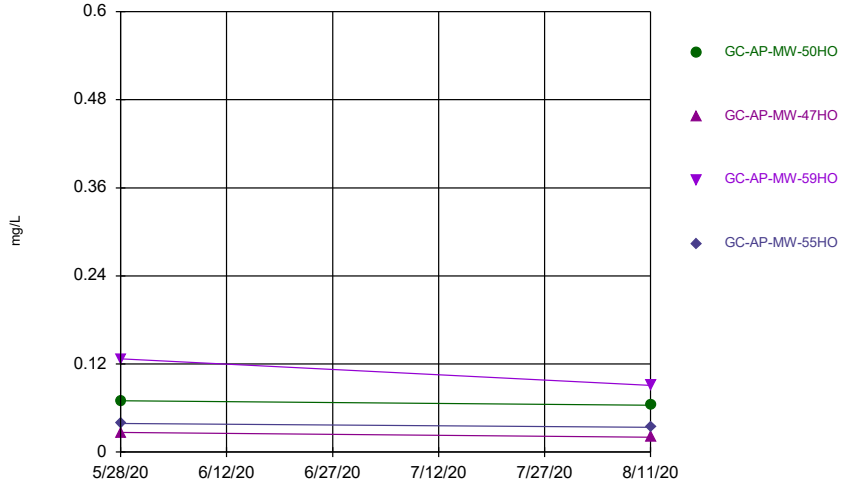

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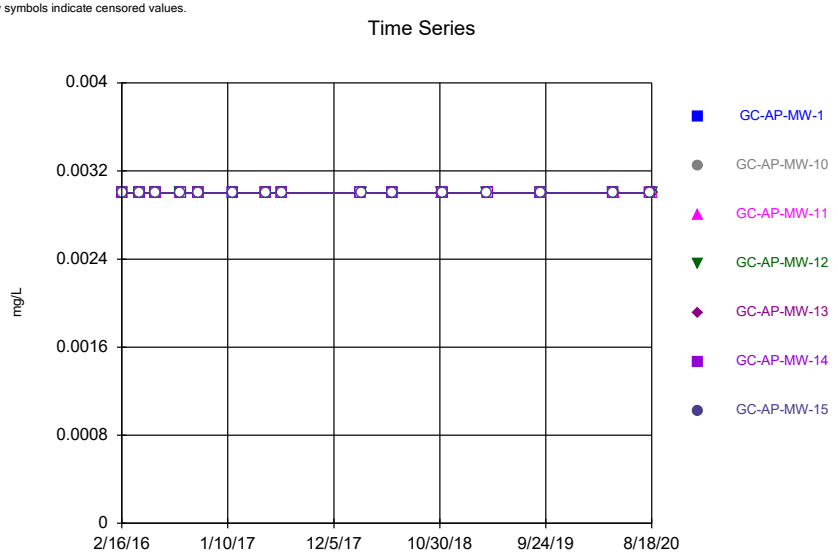

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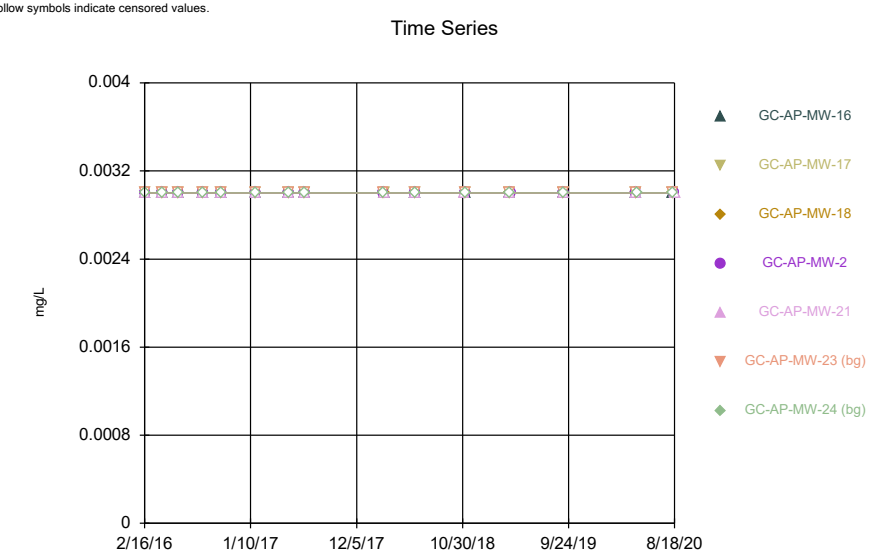

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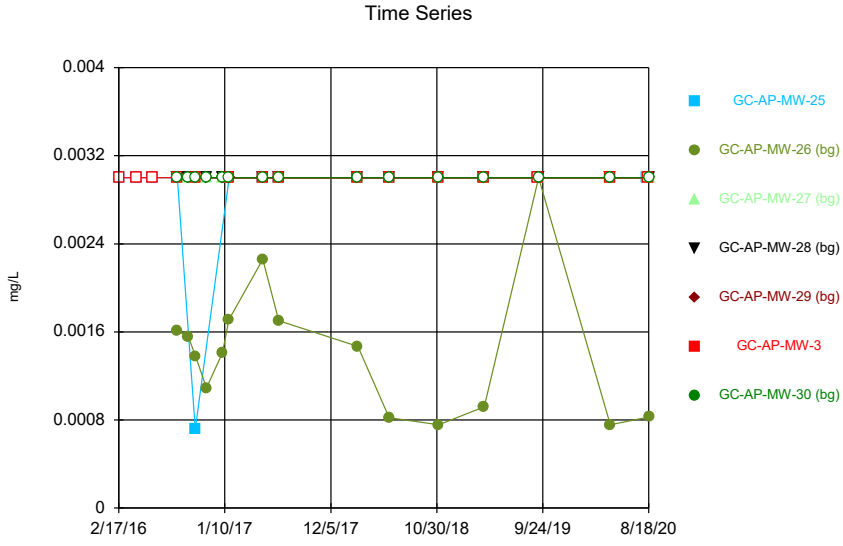

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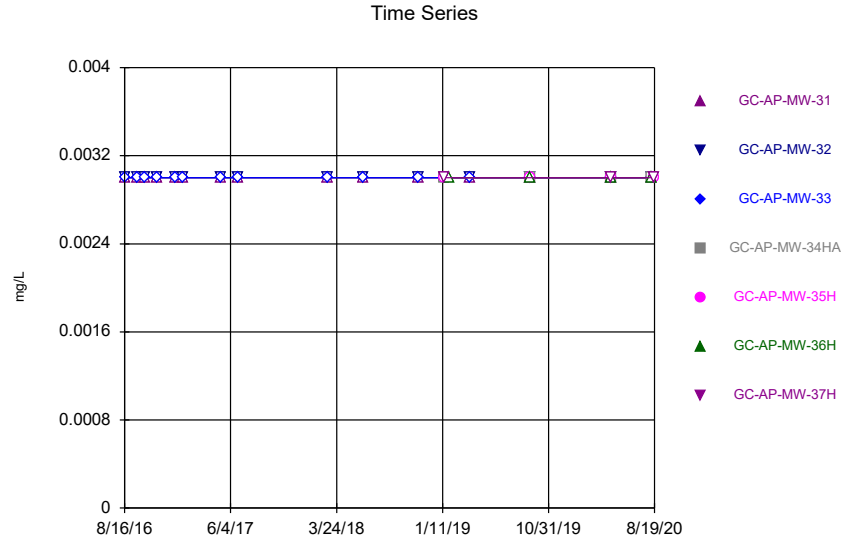

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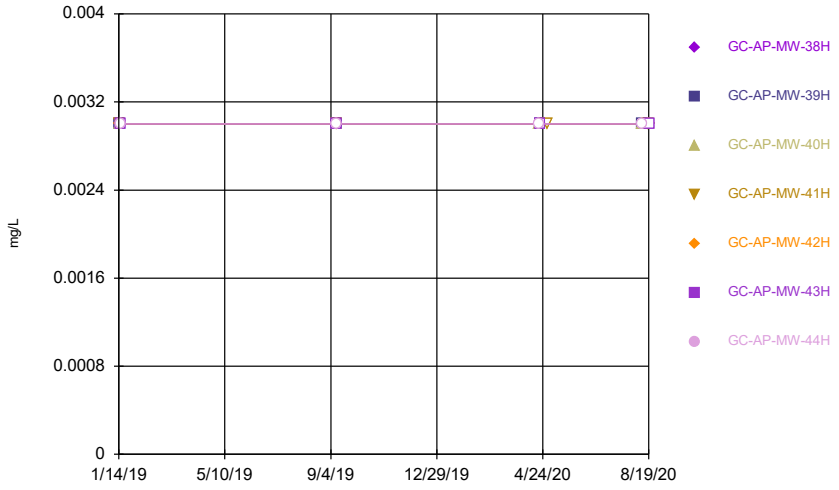

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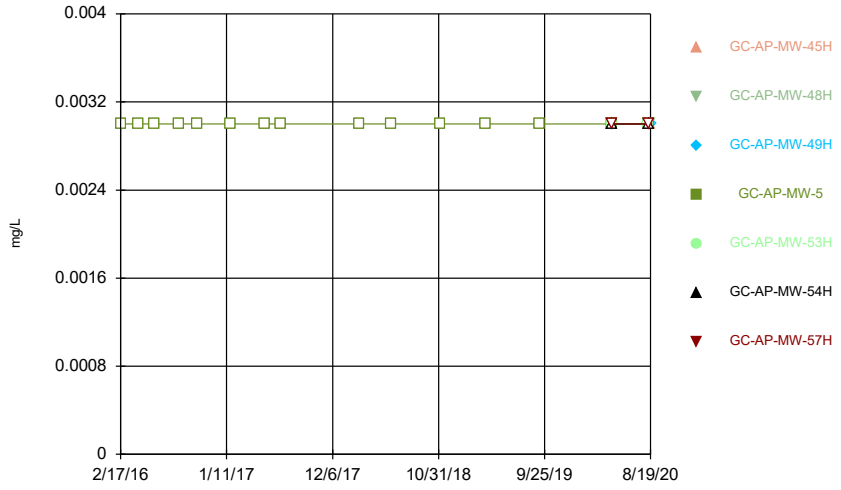

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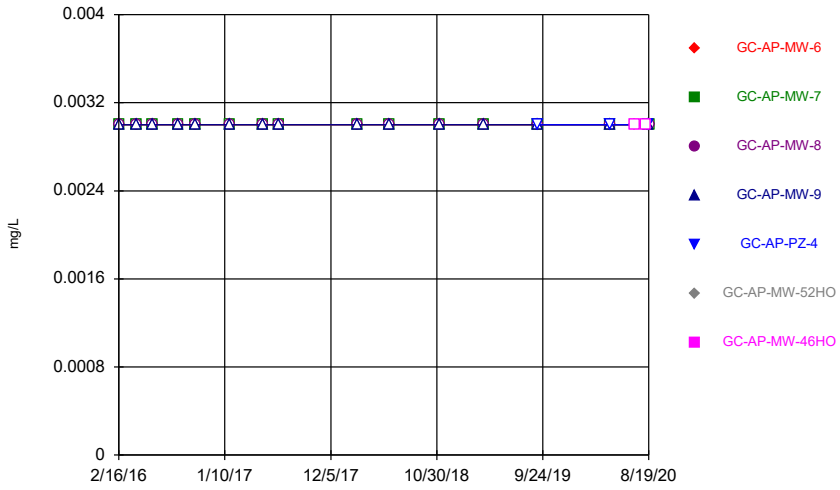

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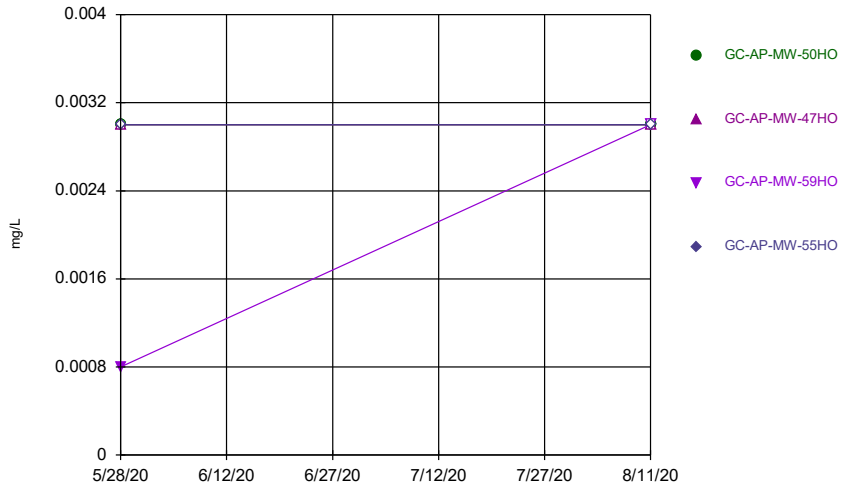

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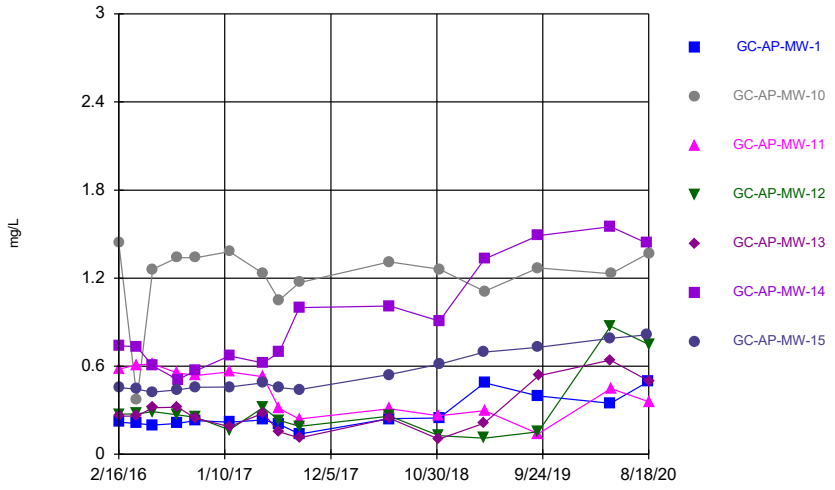

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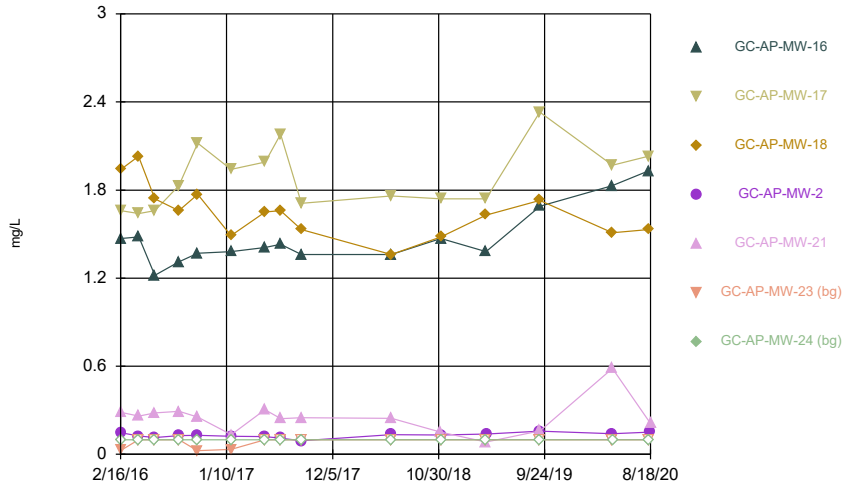

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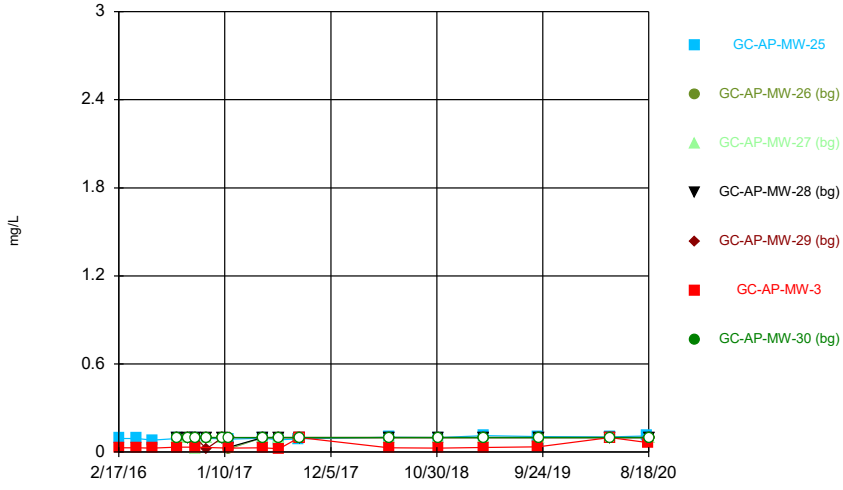

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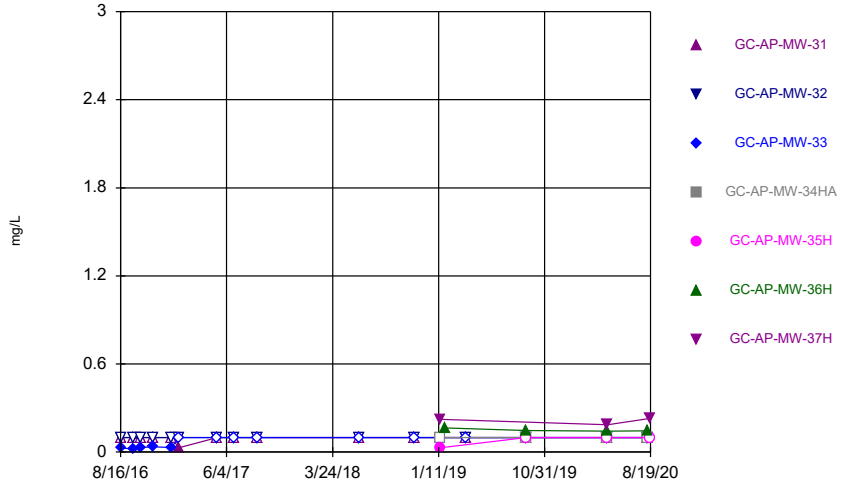

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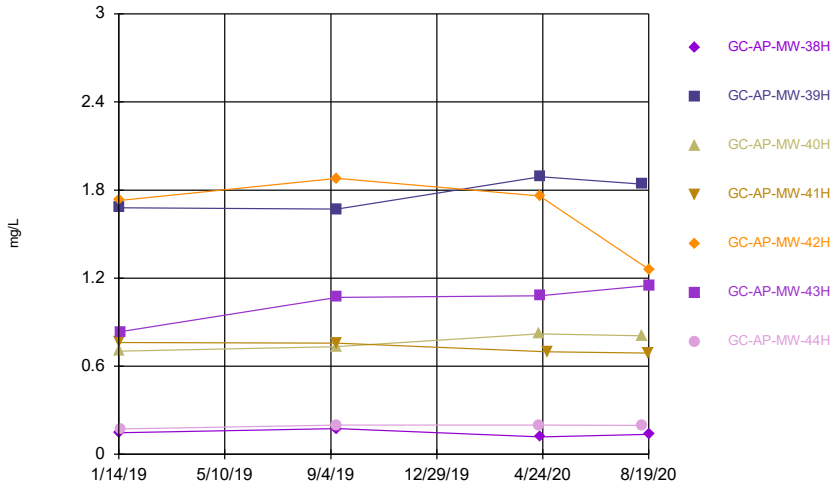
Time Series



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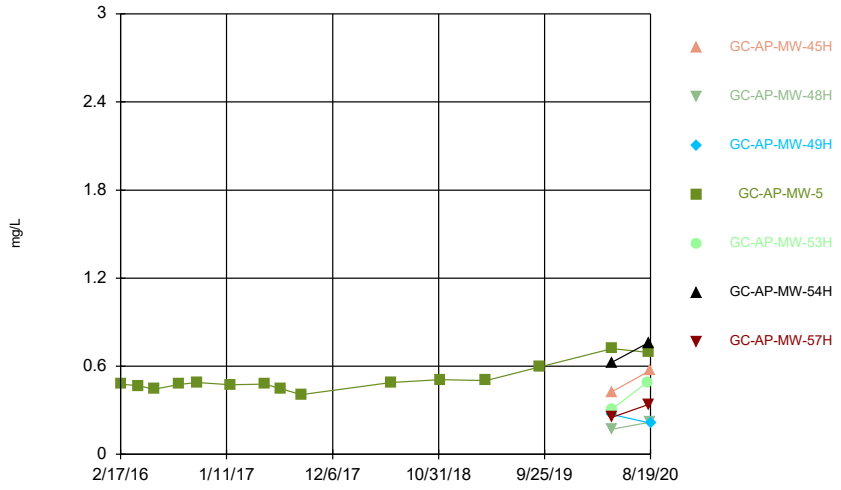

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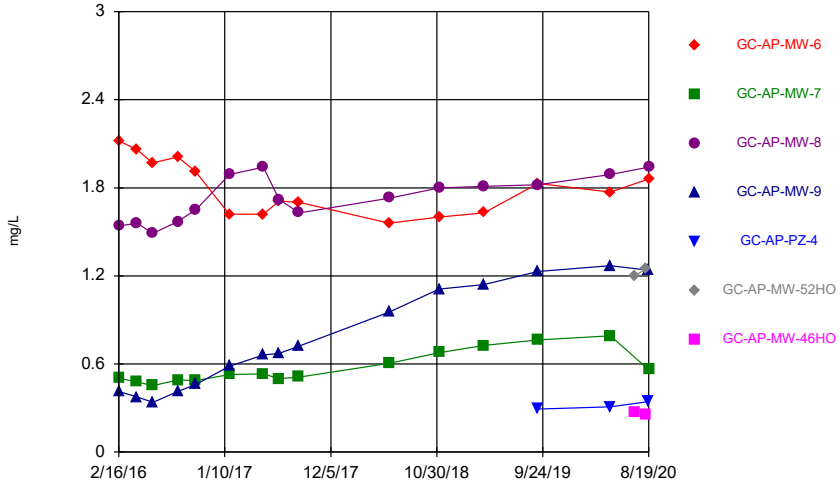

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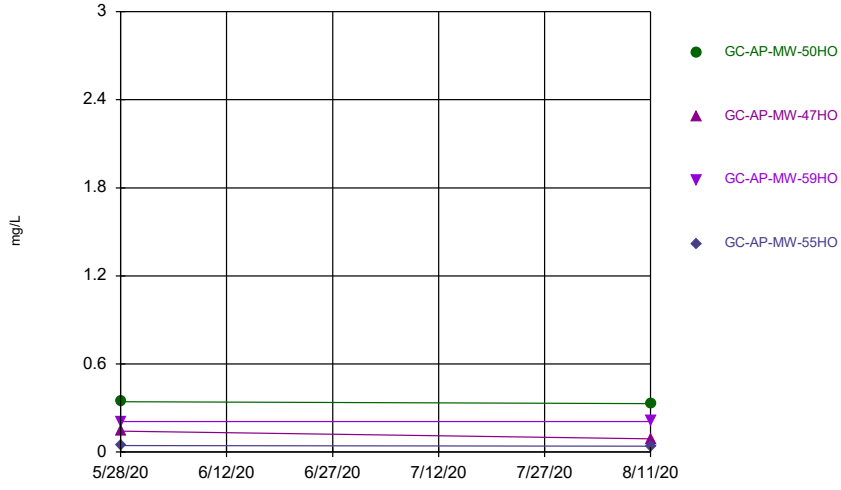
Time Series



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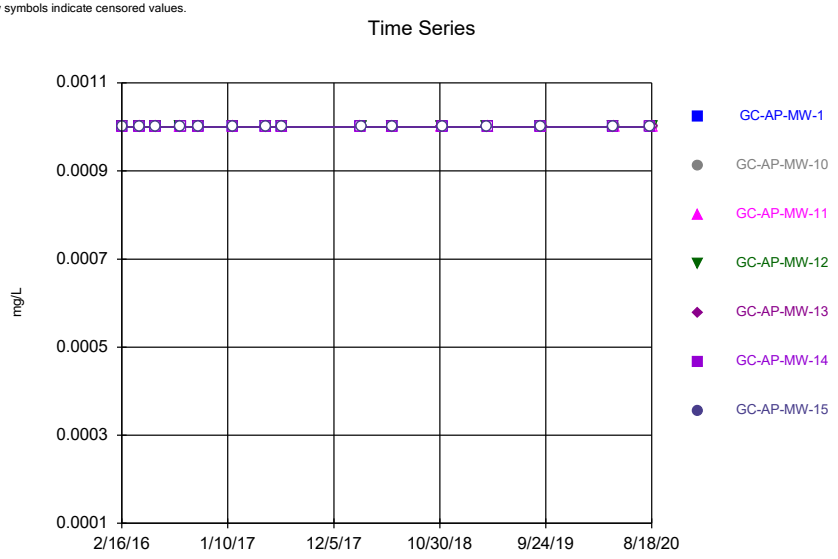

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Plant Greene County Client: Southern Company Data: Greene County AP

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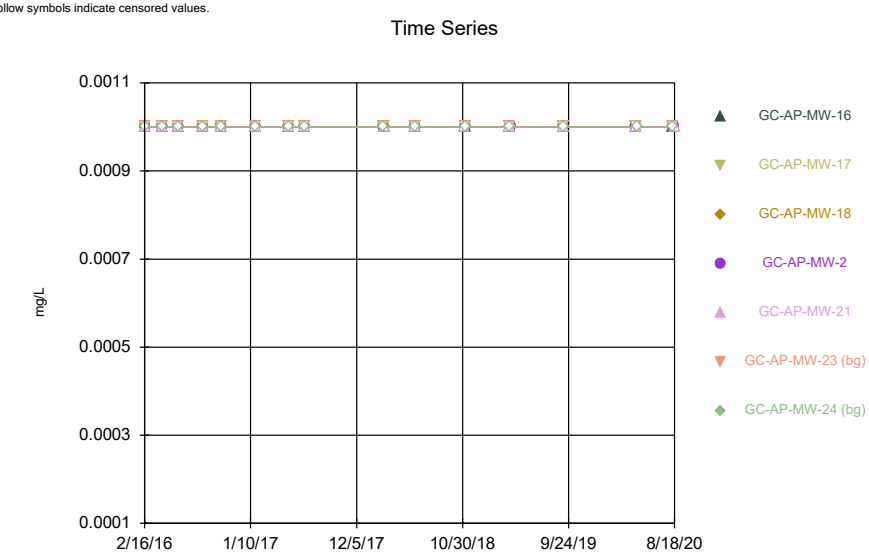

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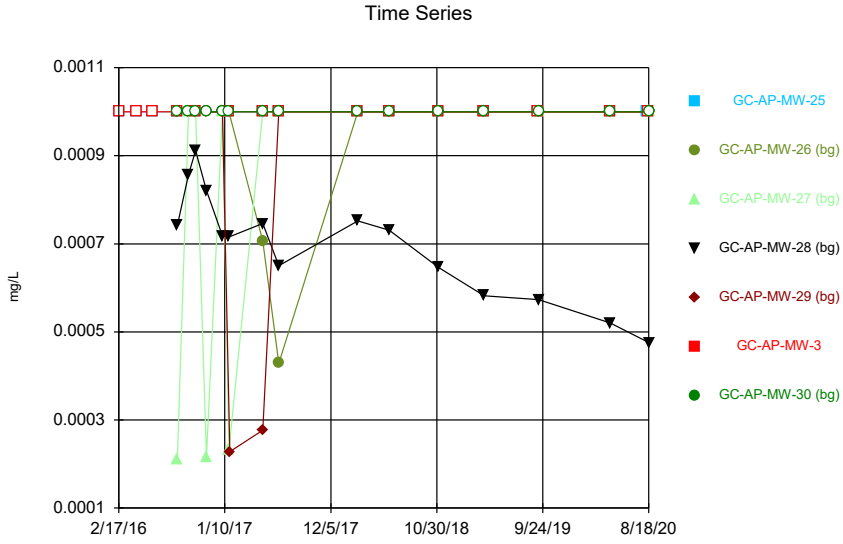

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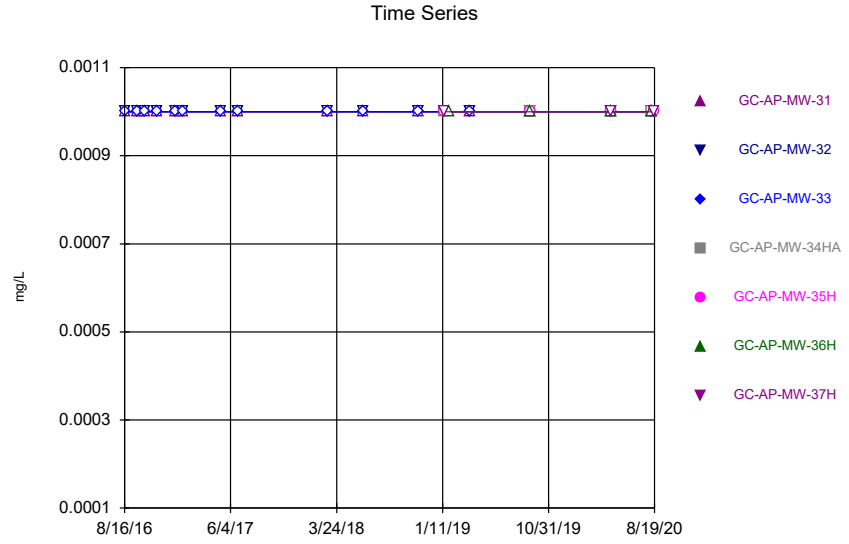
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Cadmium Analysis Run 10/26/2020 4:52 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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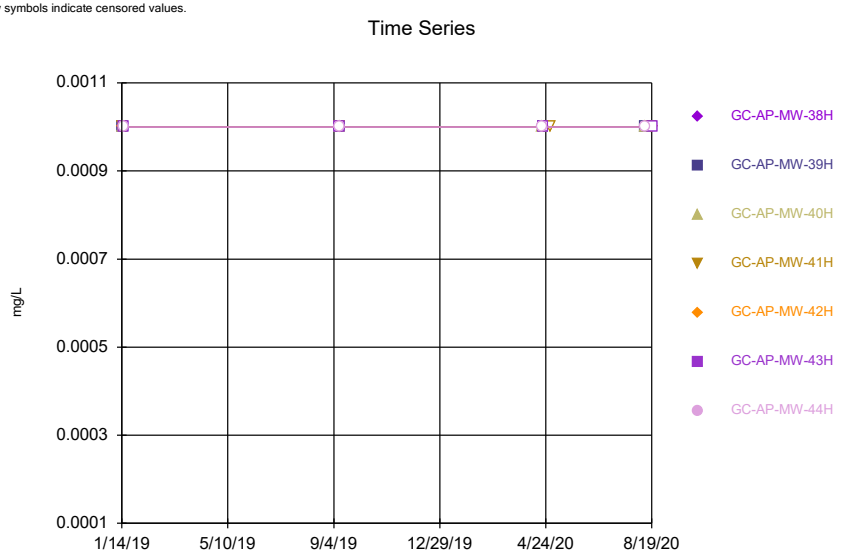

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Plant Greene County Client: Southern Company Data: Greene County AP

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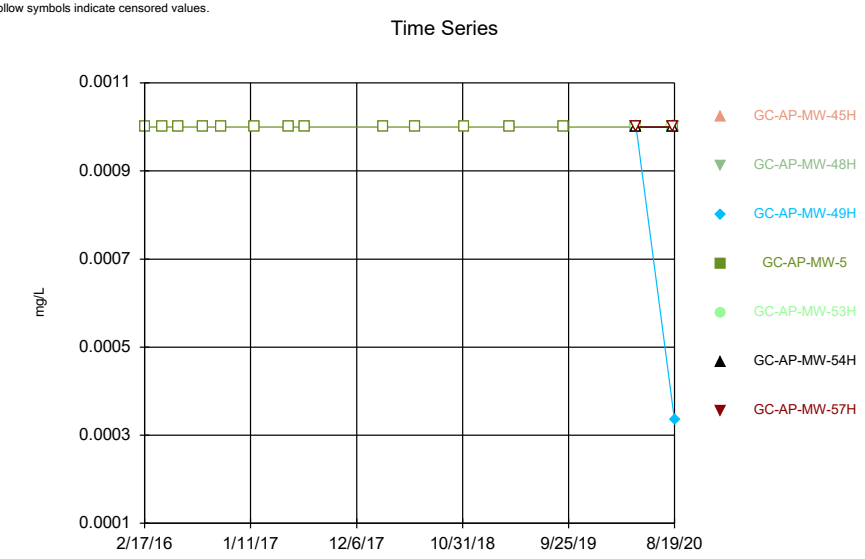

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Plant Greene County Client: Southern Company Data: Greene County AP

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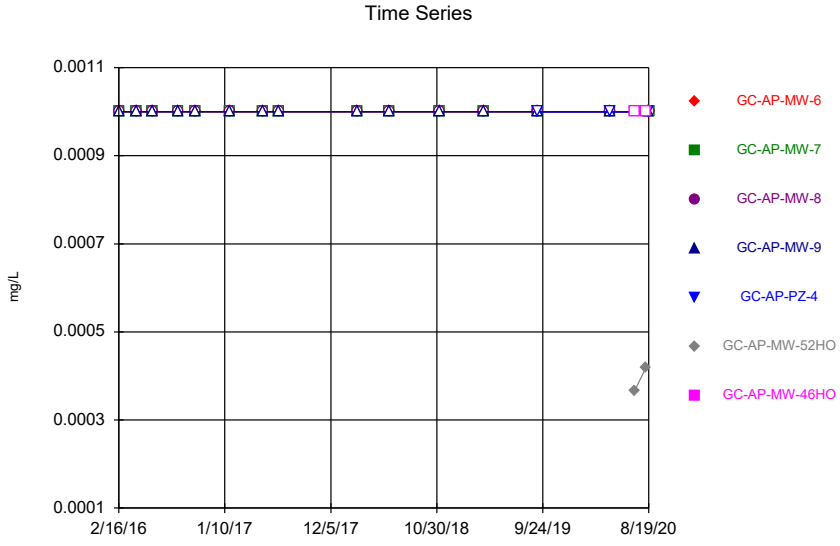

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Plant Greene County Client: Southern Company Data: Greene County AP

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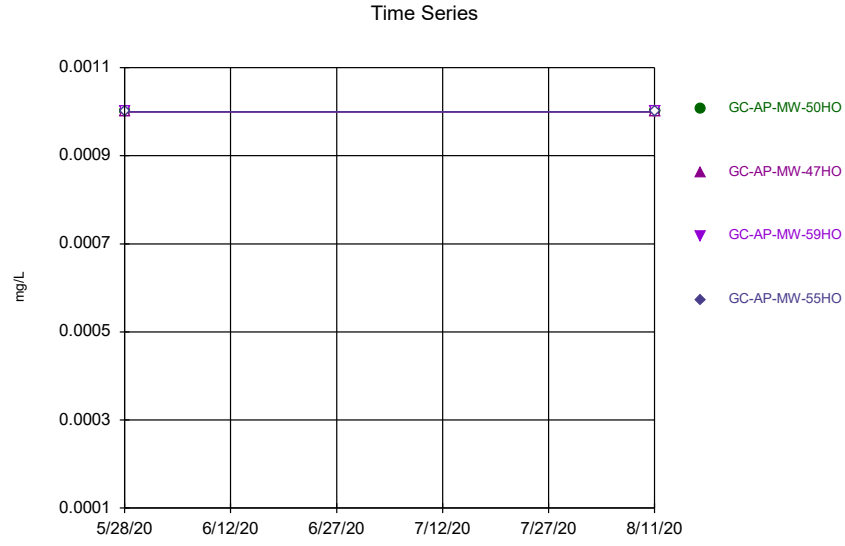

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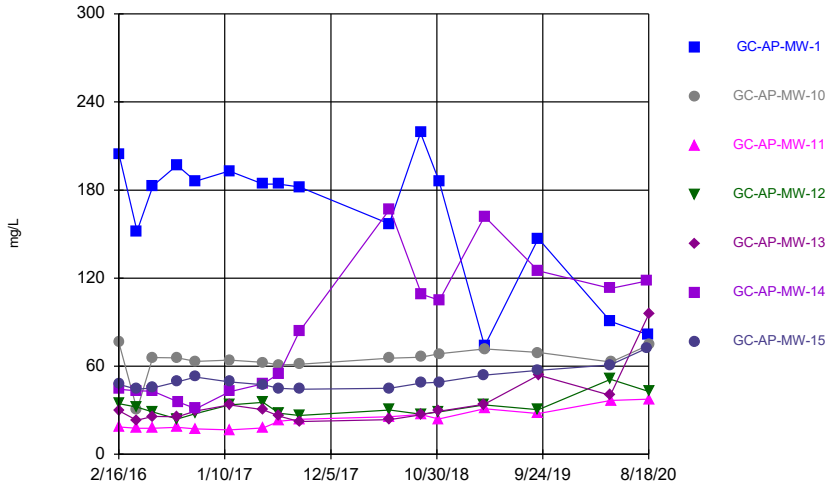
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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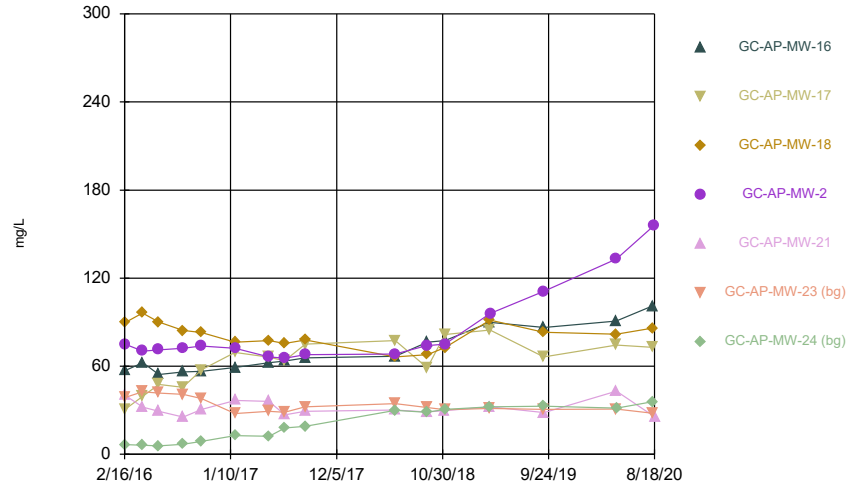
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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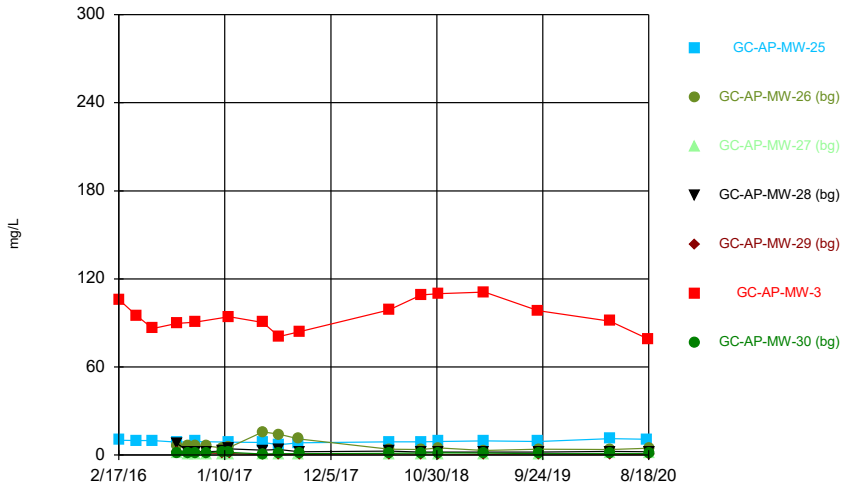
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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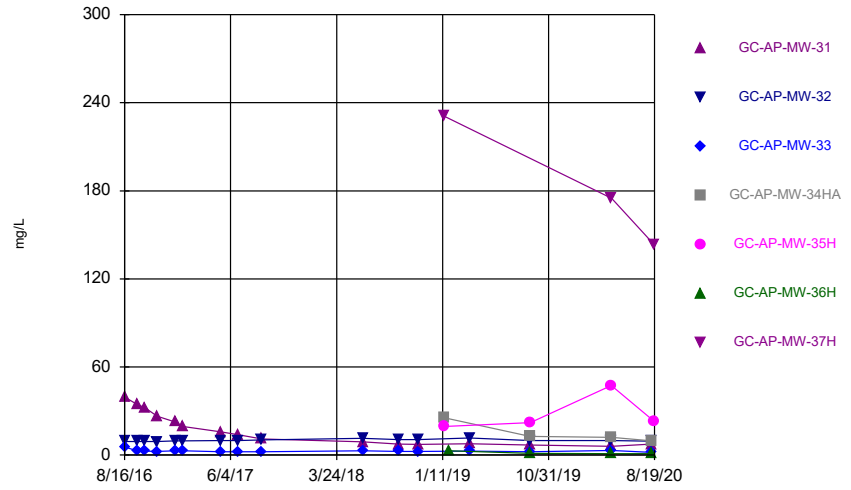
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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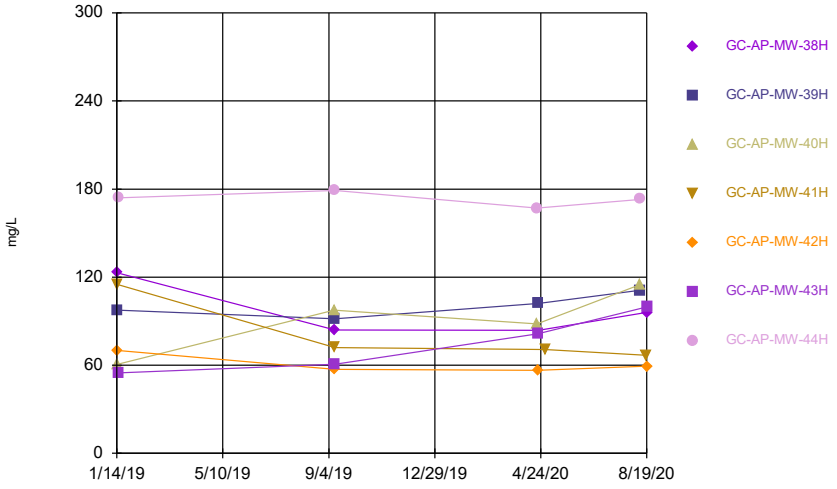
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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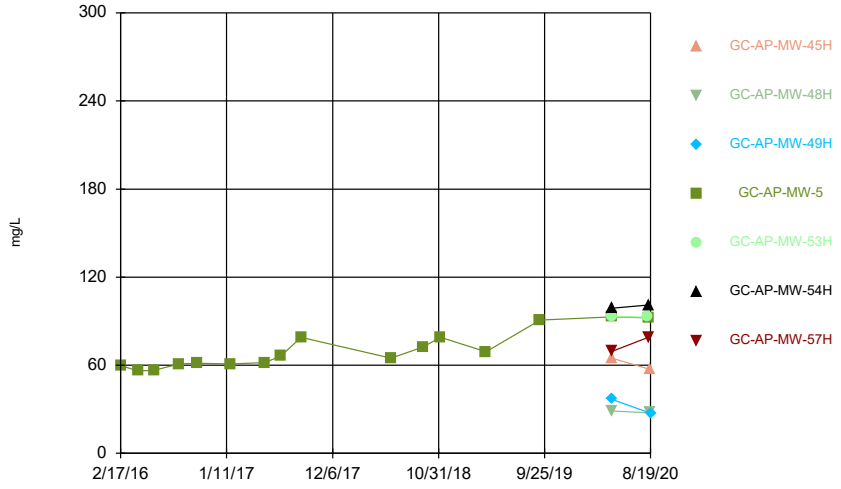
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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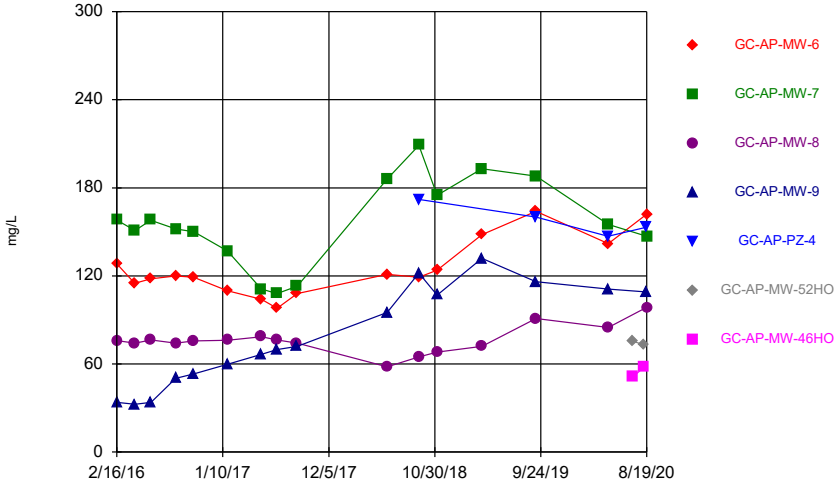
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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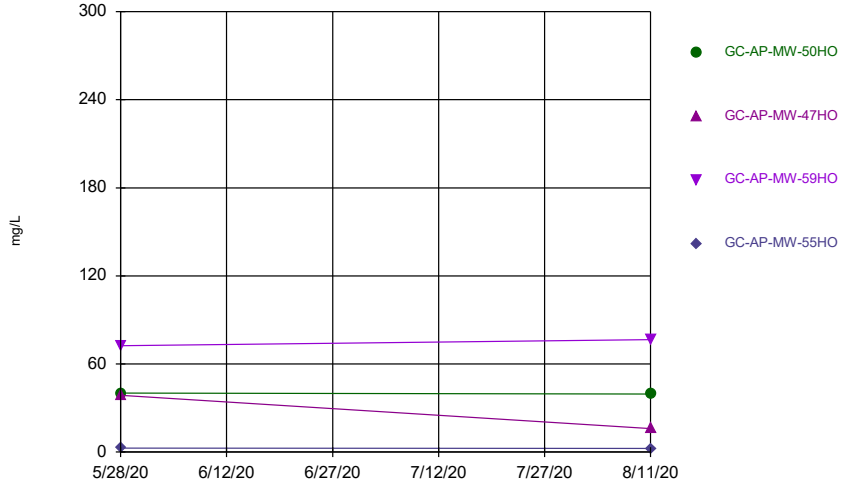
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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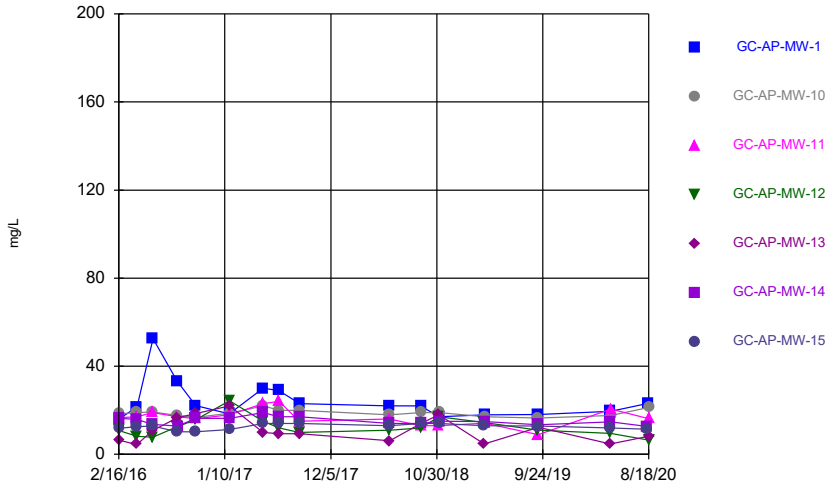
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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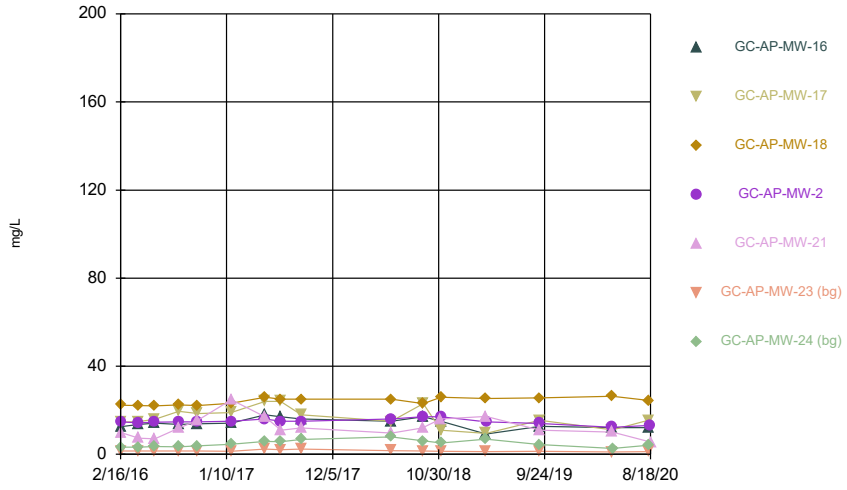
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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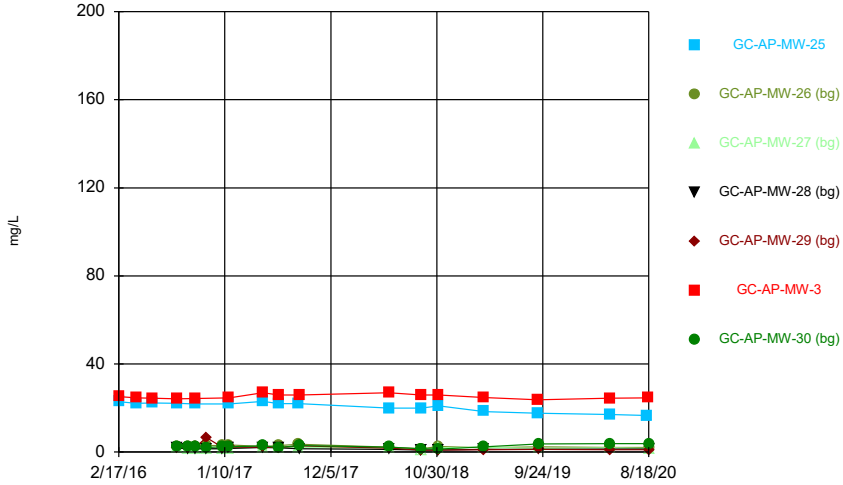
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



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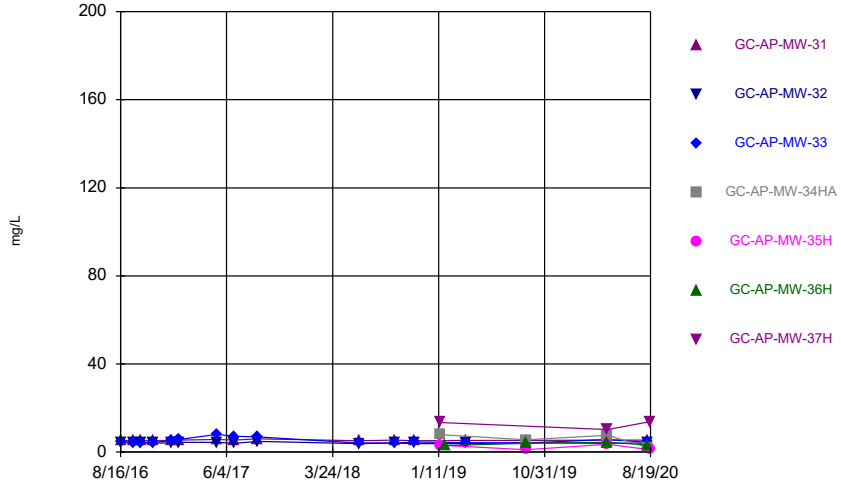
Time Series



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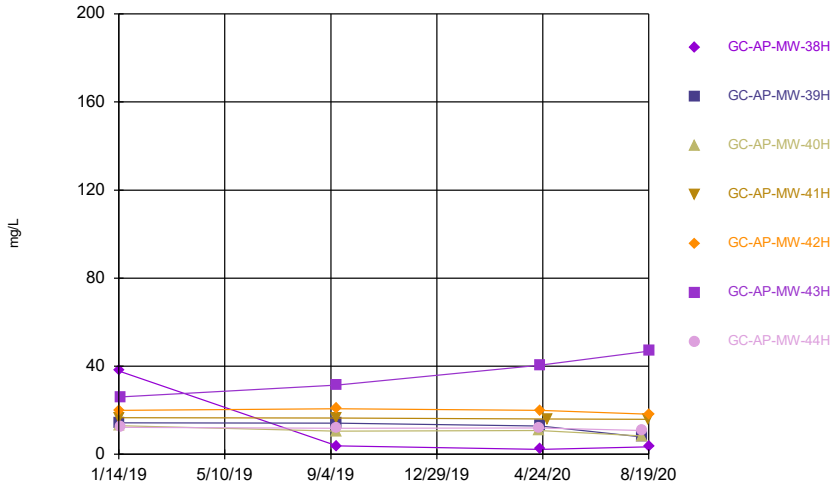
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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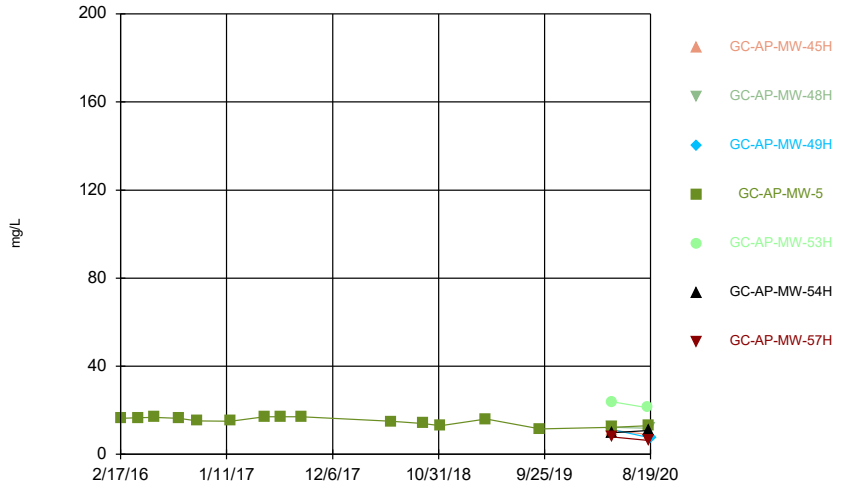
Time Series



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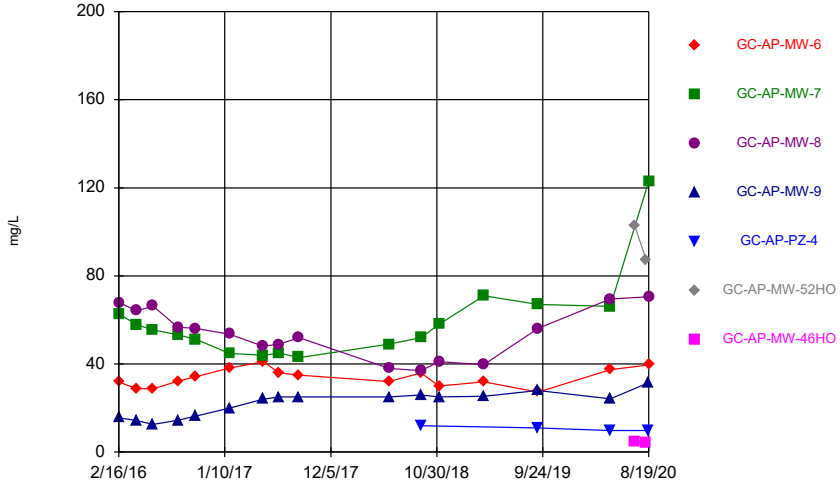
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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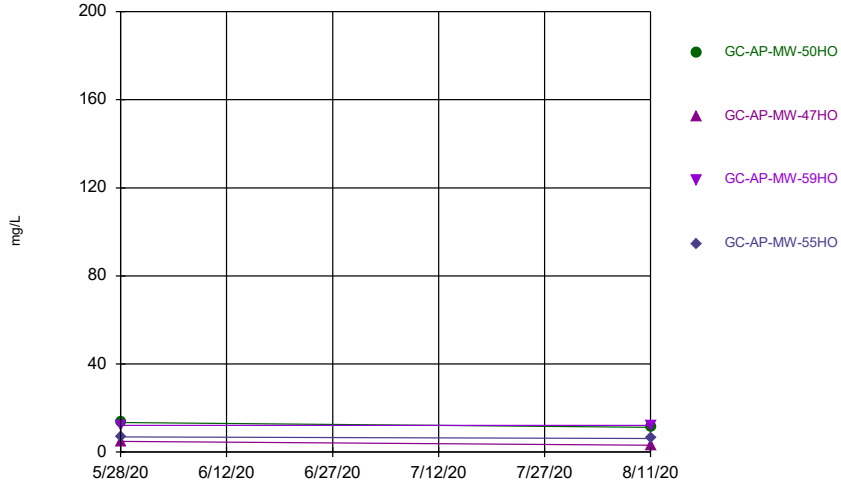
Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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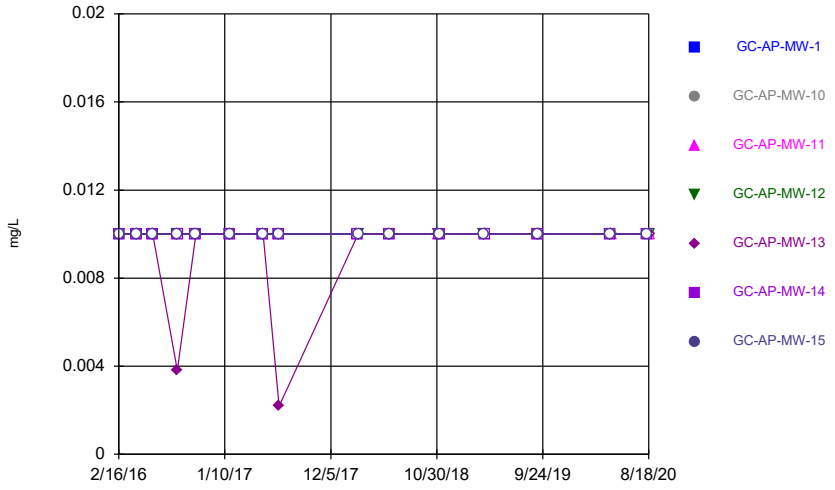
Time Series



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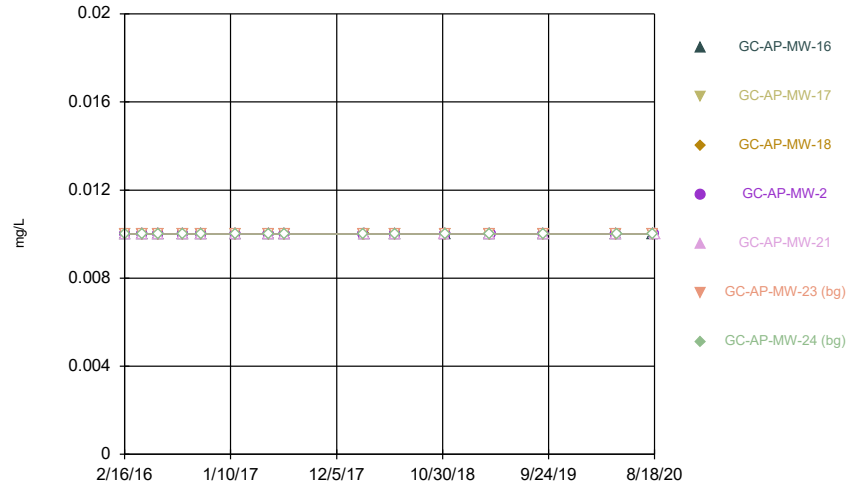
Hollow symbols indicate censored values.

Time Series



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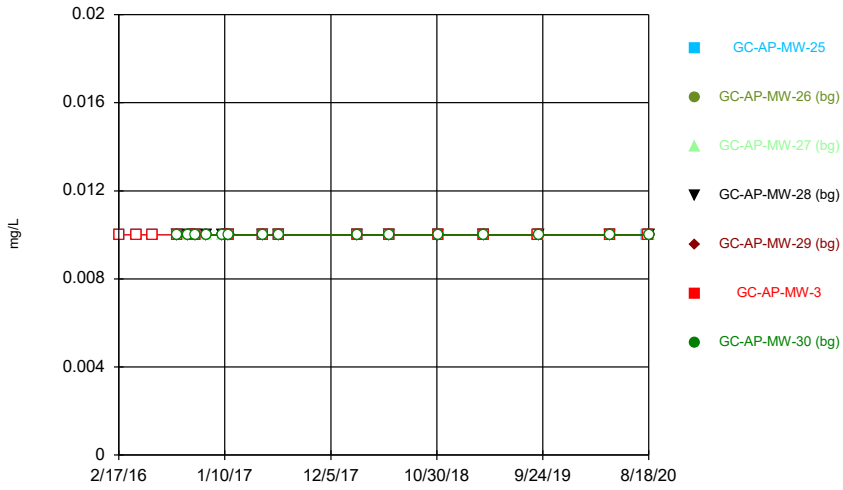
Time Series



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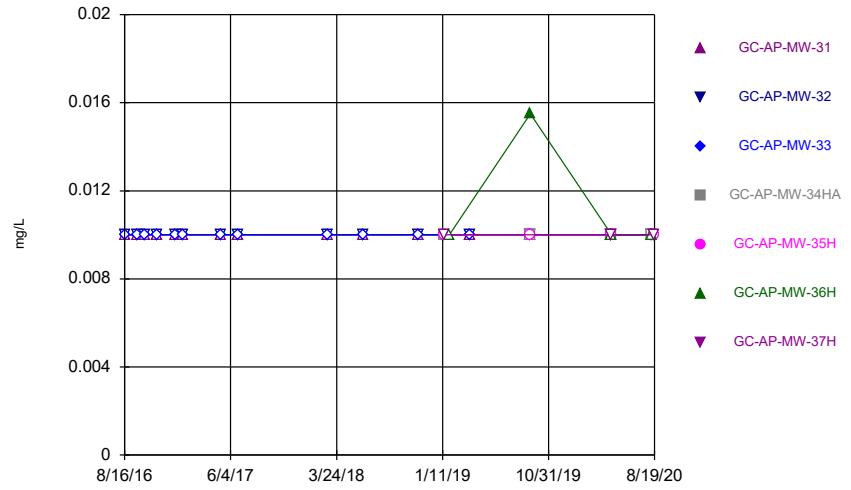

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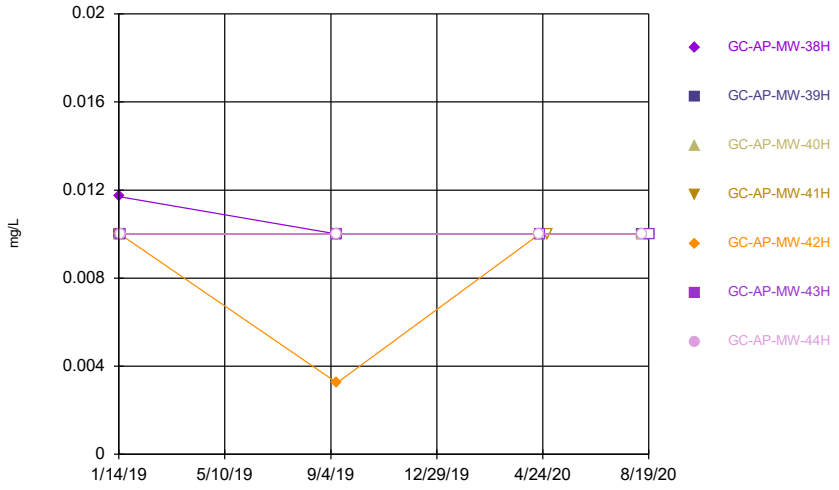

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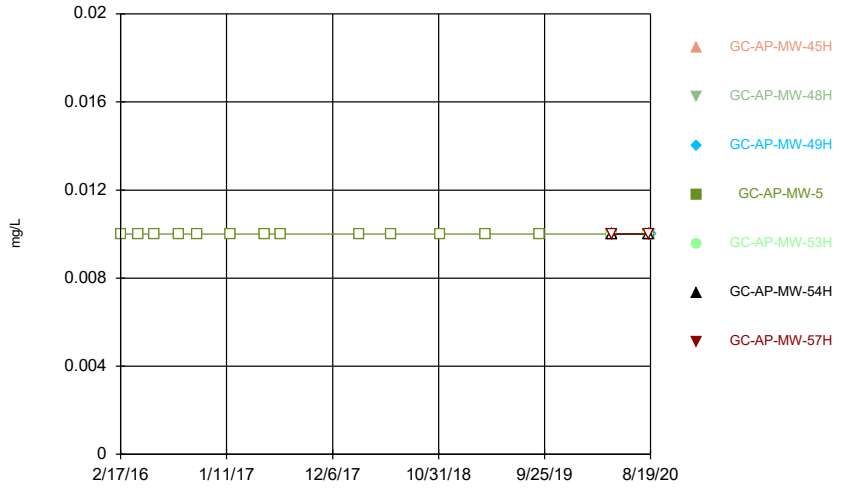

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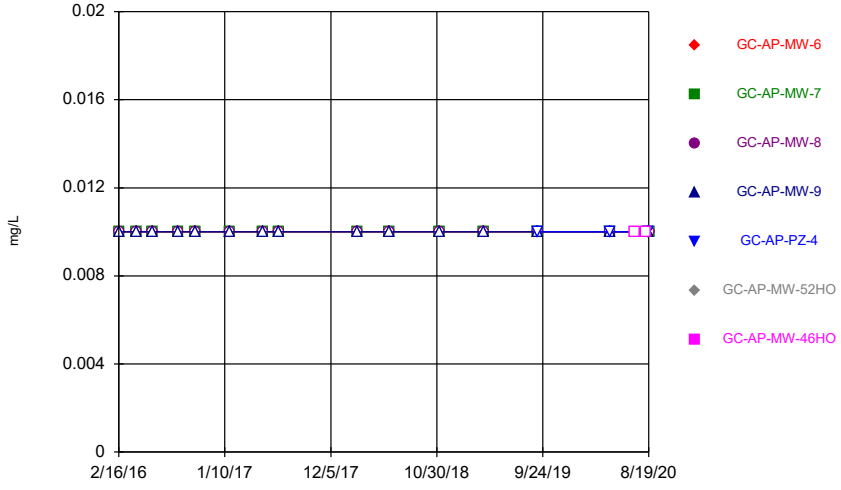

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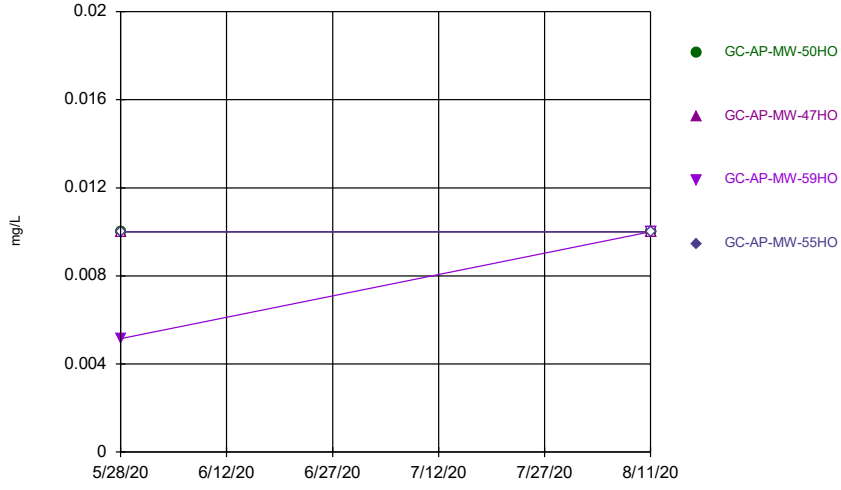

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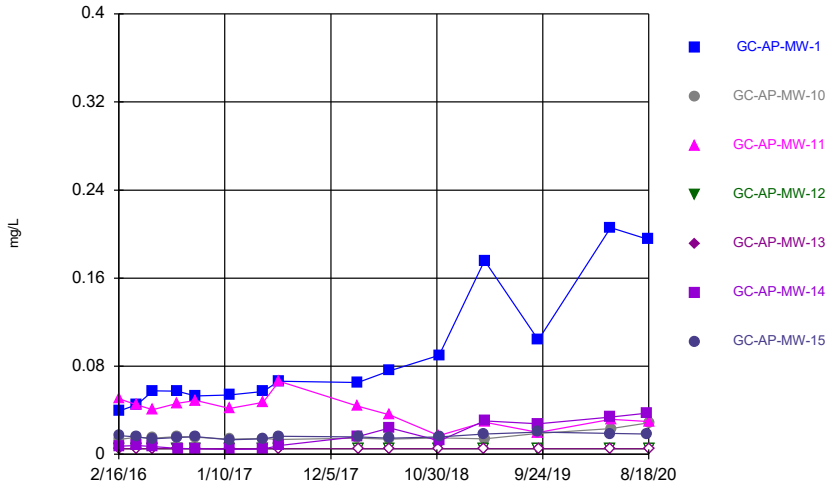

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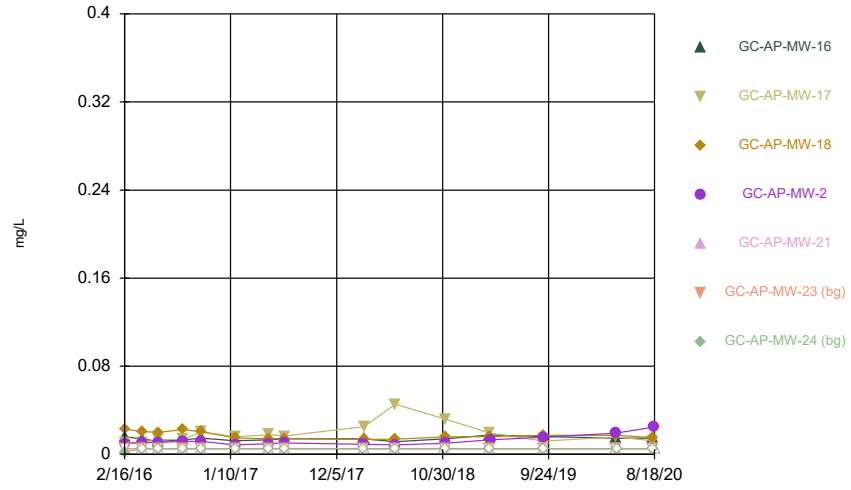
Time Series



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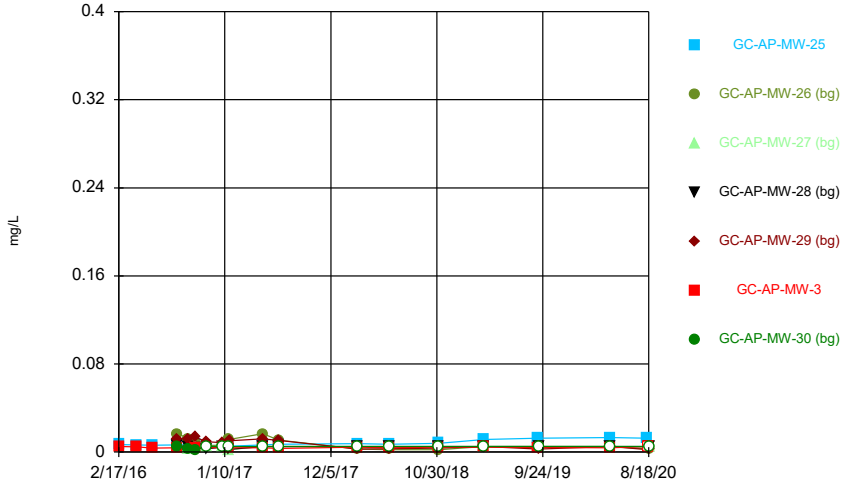

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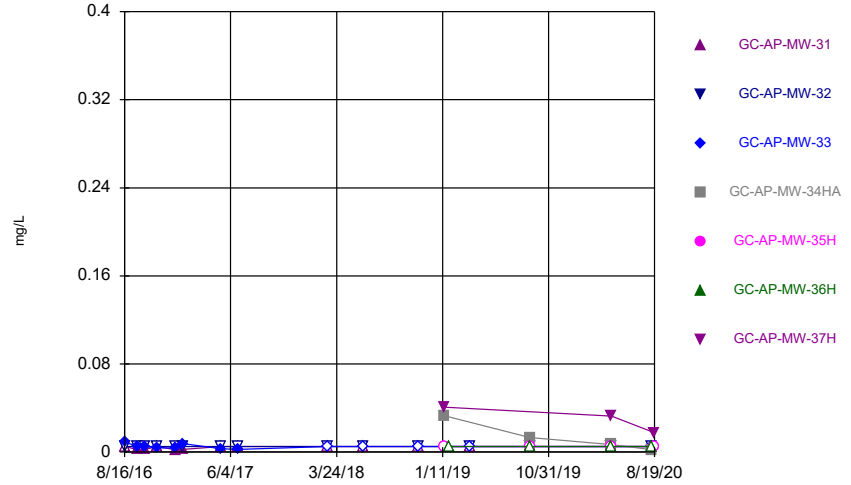

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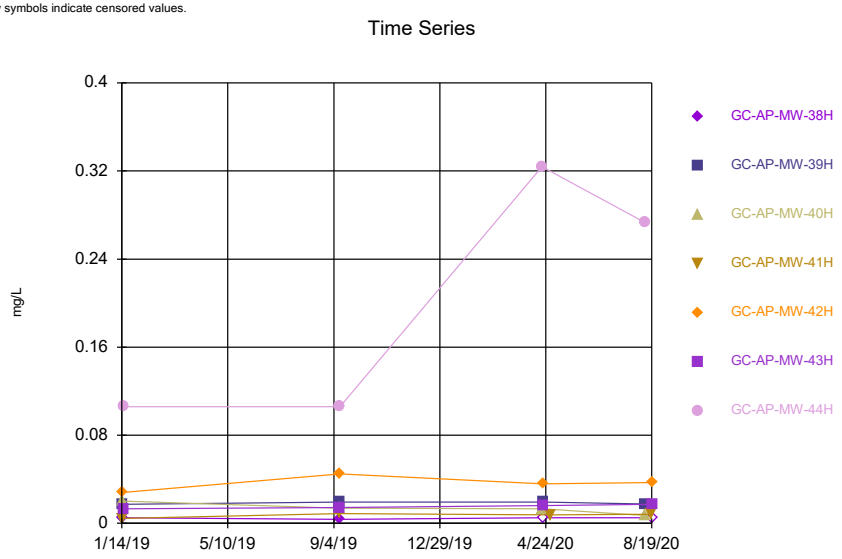

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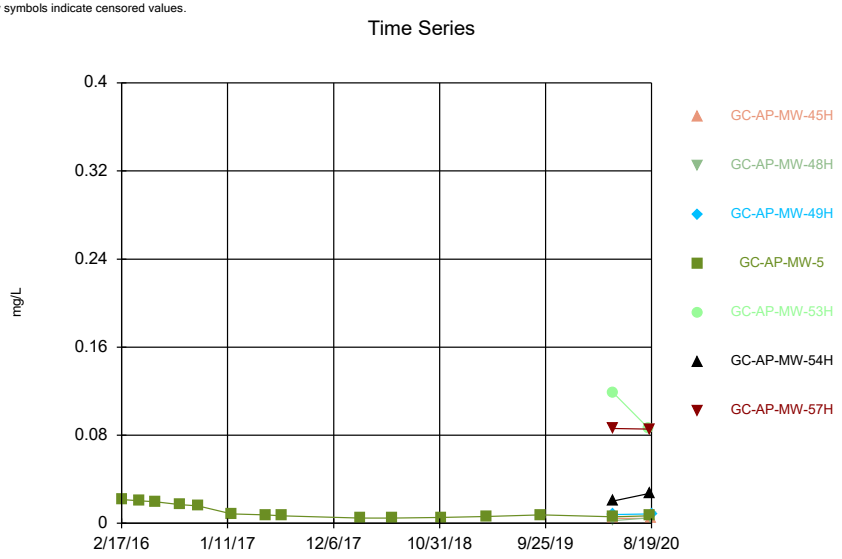

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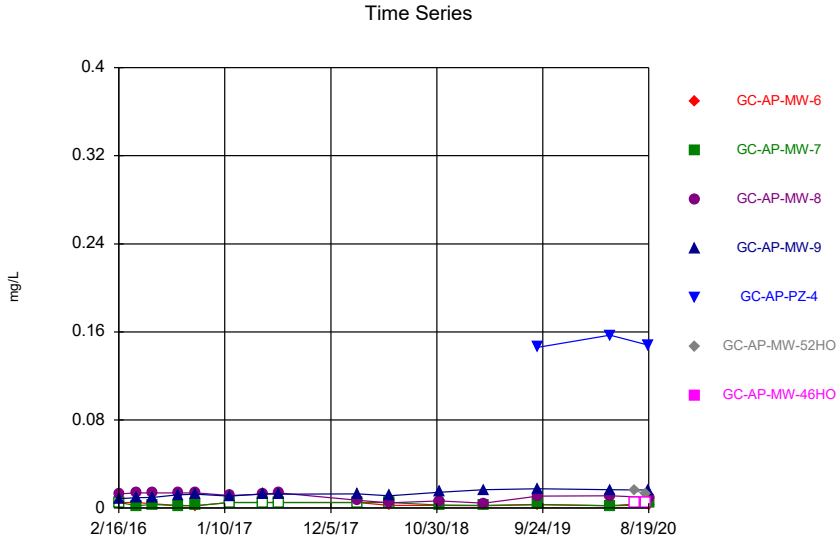

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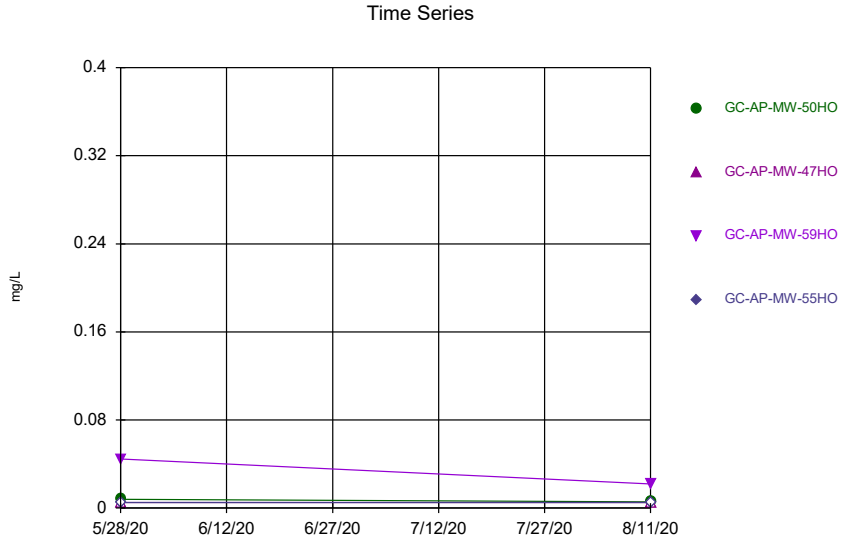

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Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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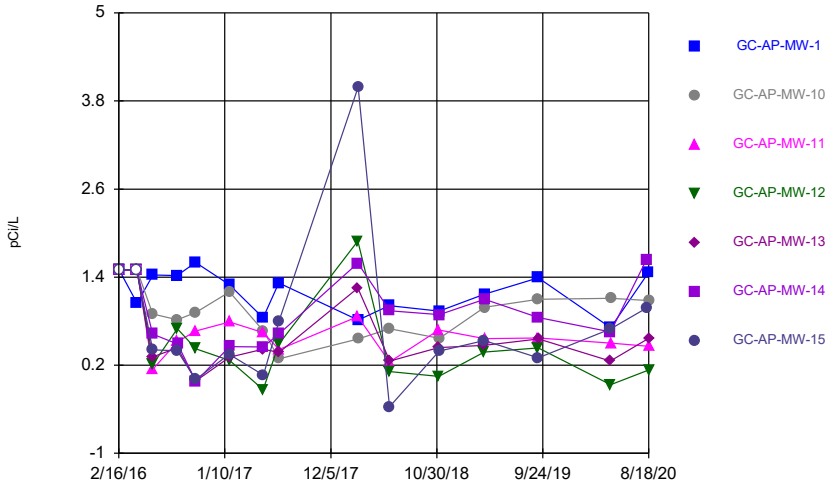
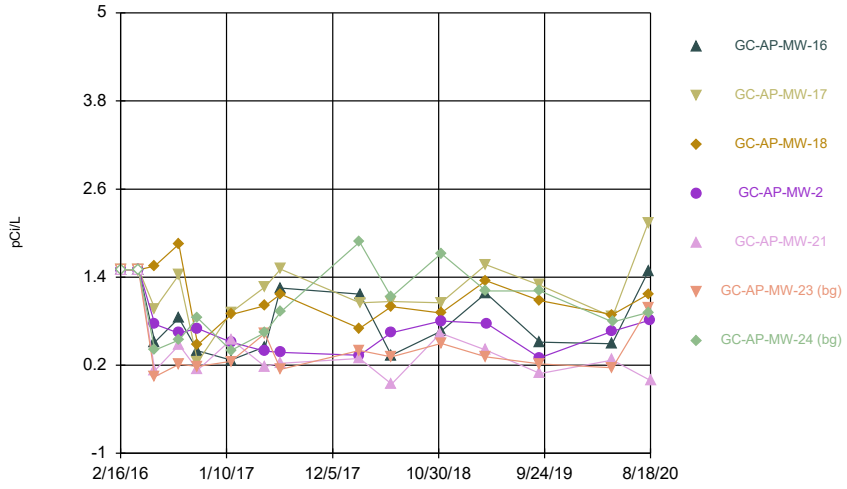
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:53 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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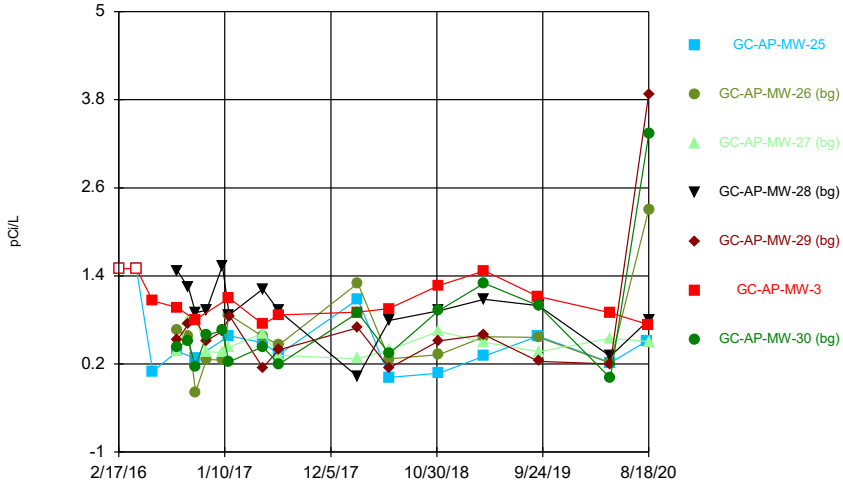
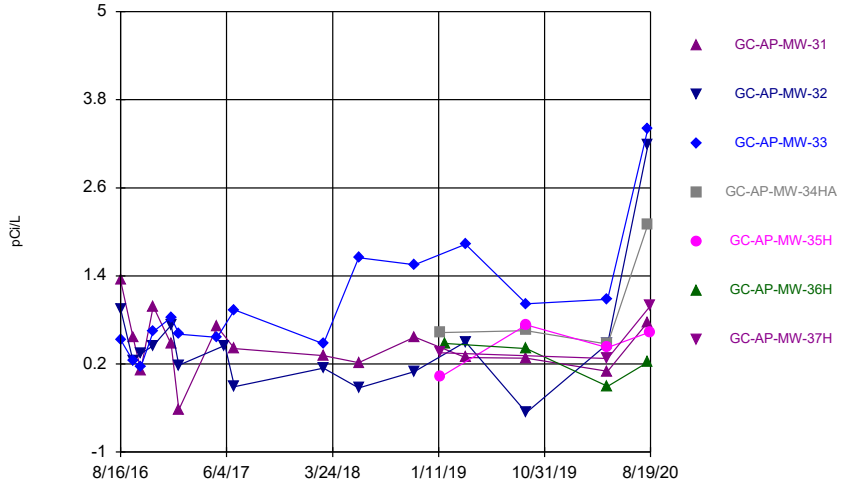
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:53 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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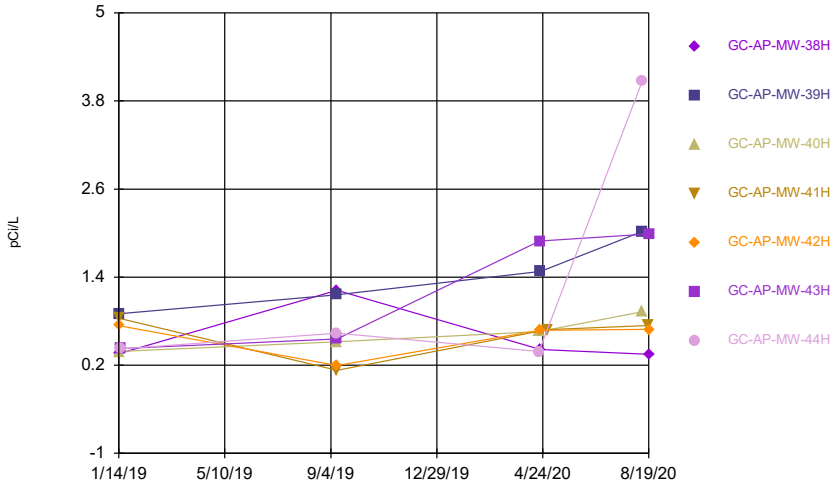
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



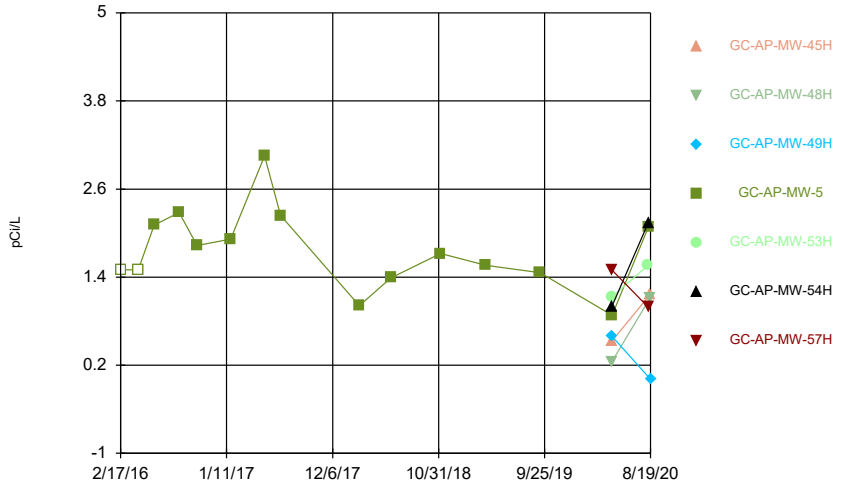
Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:53 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



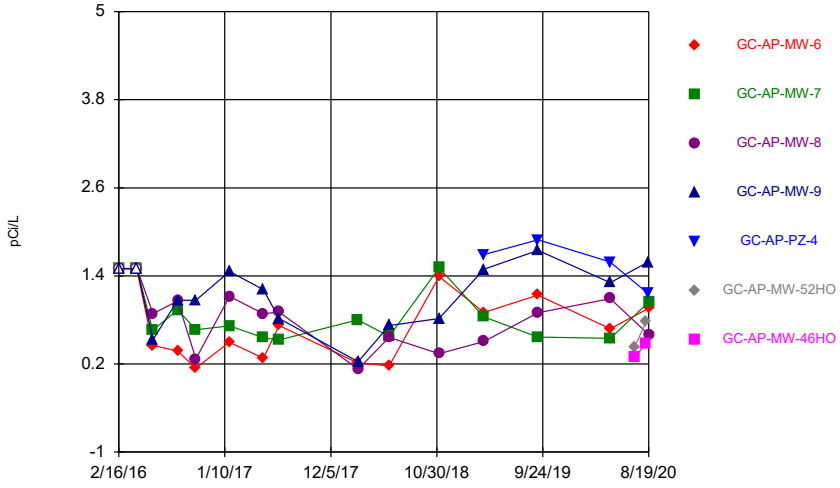
Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:53 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



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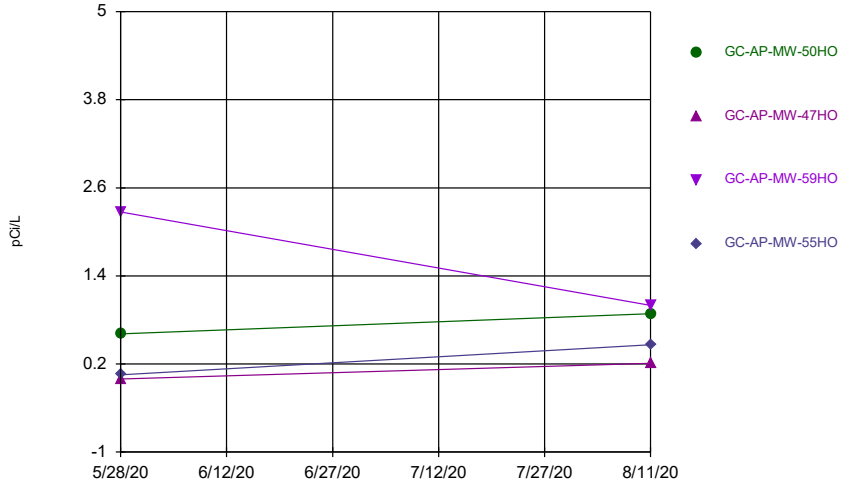
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

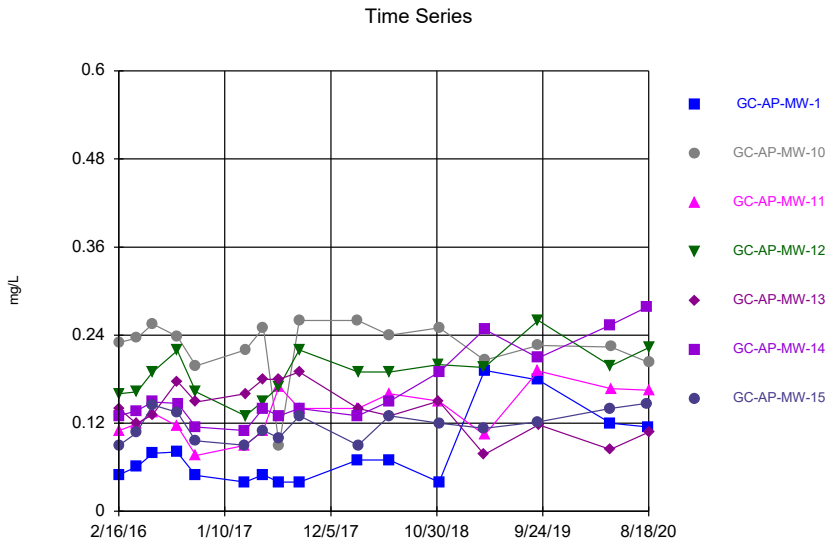
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:53 PM

Plant Greene County Client: Southern Company Data: Greene County AP

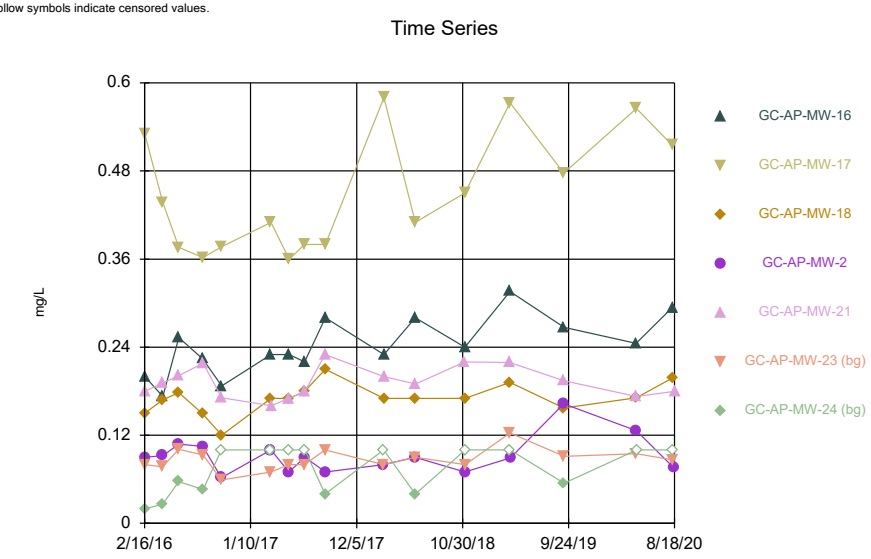
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG



Constituent: Fluoride Analysis Run 10/26/2020 4:53 PM

Plant Greene County Client: Southern Company Data: Greene County AP

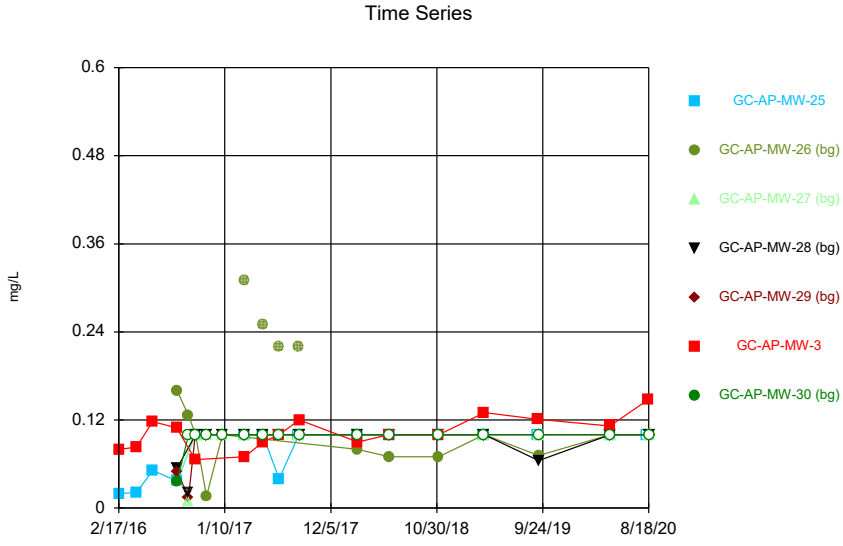
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 10/26/2020 4:53 PM

Plant Greene County Client: Southern Company Data: Greene County AP

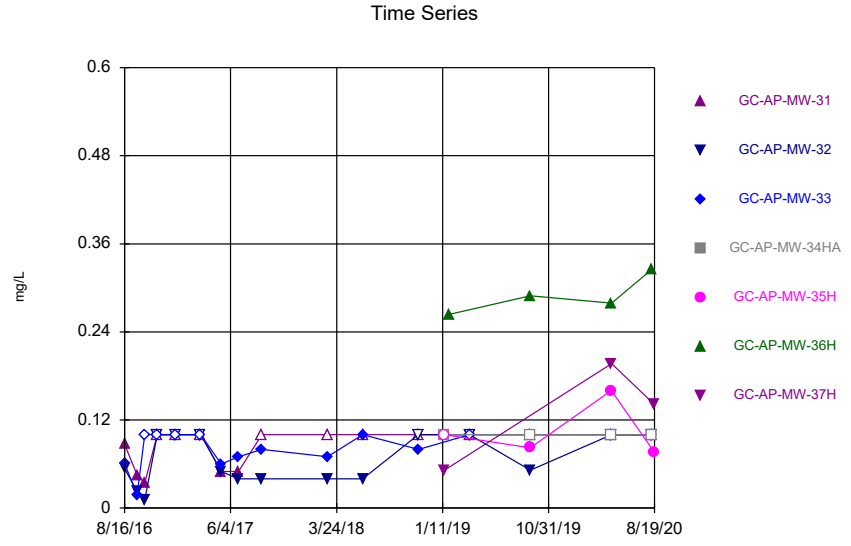
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 10/26/2020 4:53 PM

Plant Greene County Client: Southern Company Data: Greene County AP

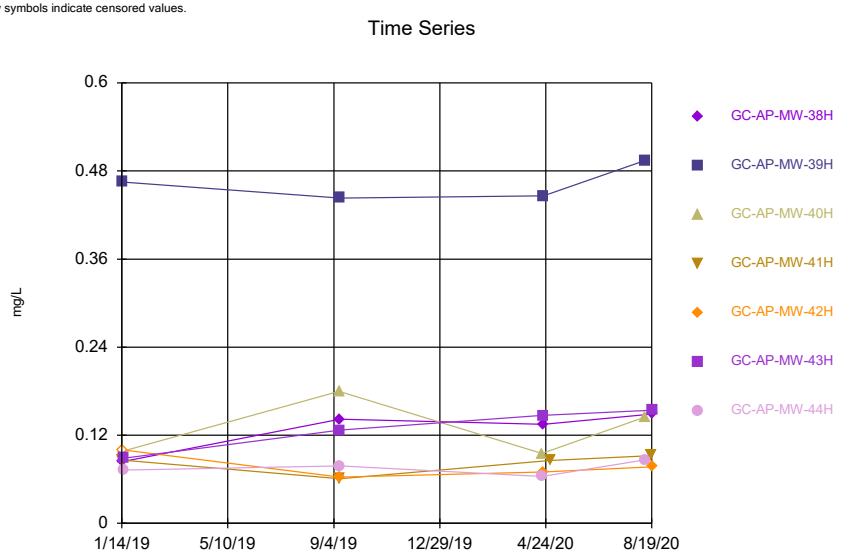
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 10/26/2020 4:53 PM

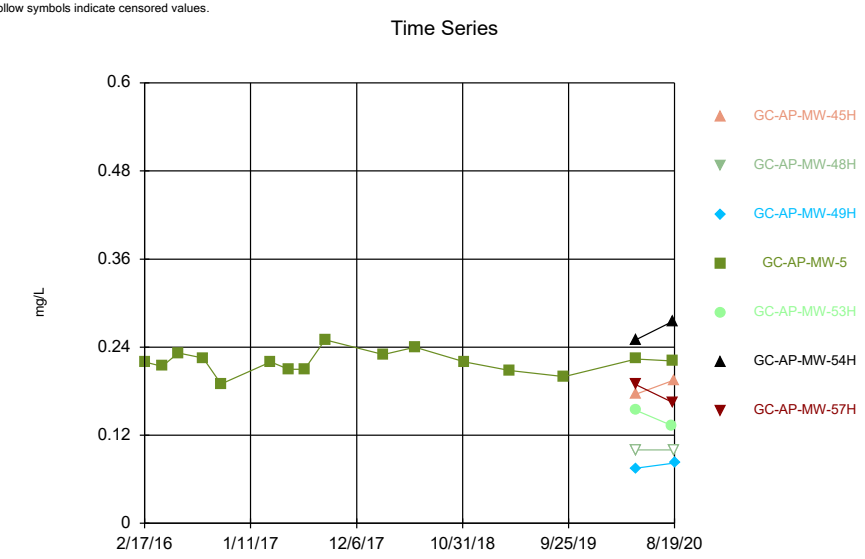
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



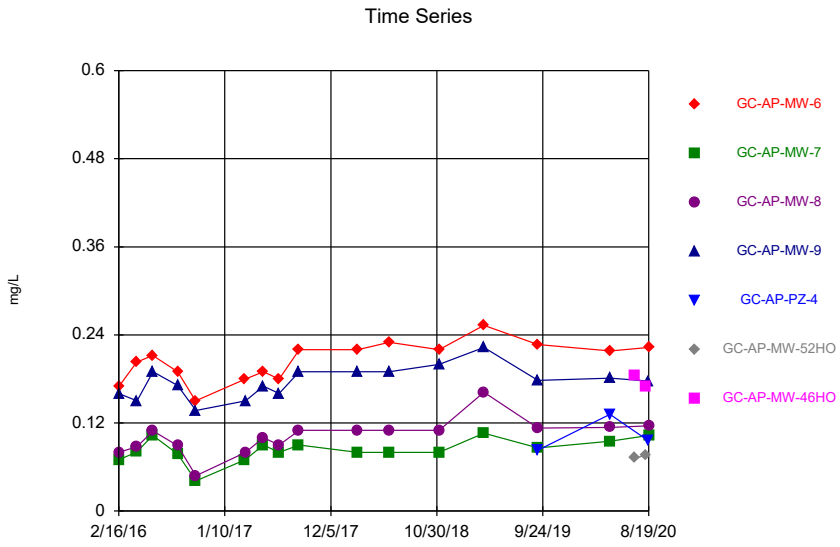
Constituent: Fluoride Analysis Run 10/26/2020 4:53 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 10/26/2020 4:53 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG



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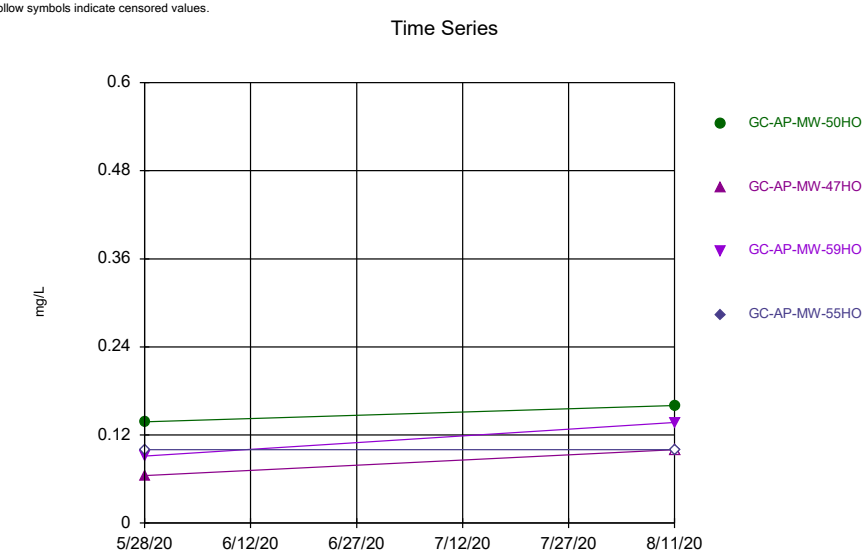
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



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Plant Greene County Client: Southern Company Data: Greene County AP

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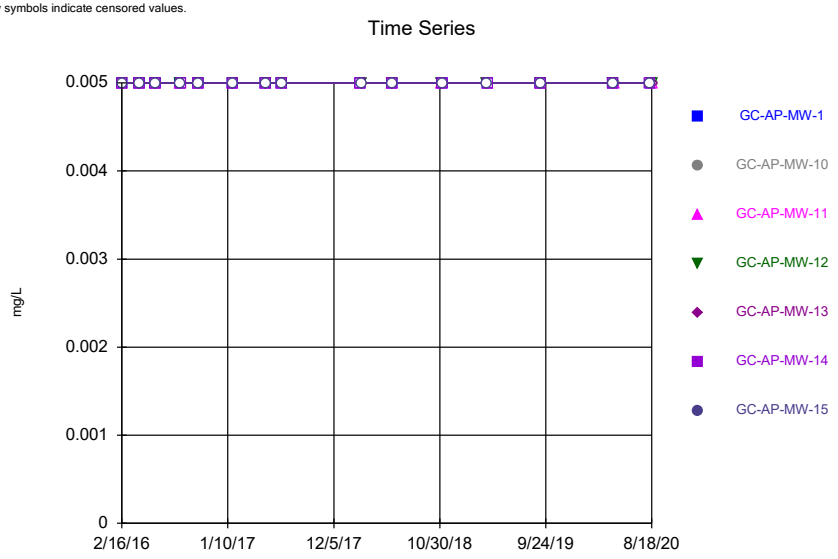

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Plant Greene County Client: Southern Company Data: Greene County AP

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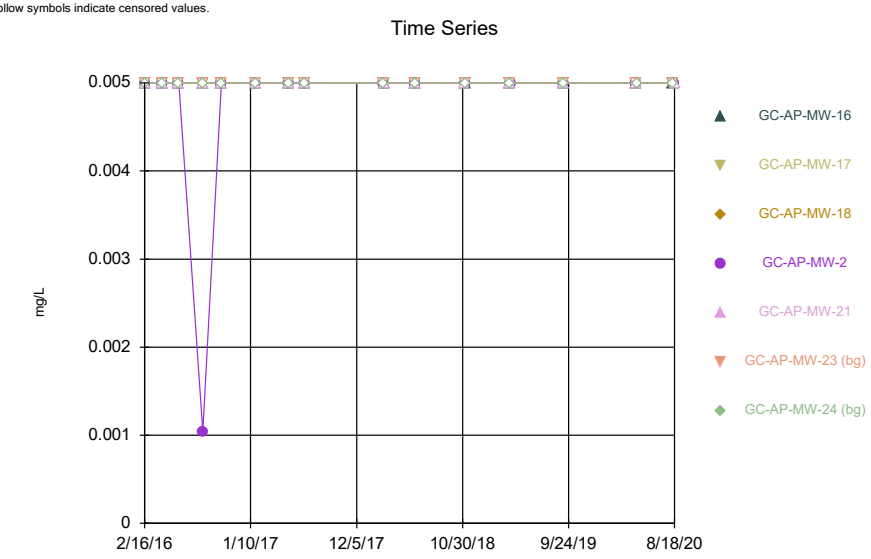
Hollow symbols indicate censored values.



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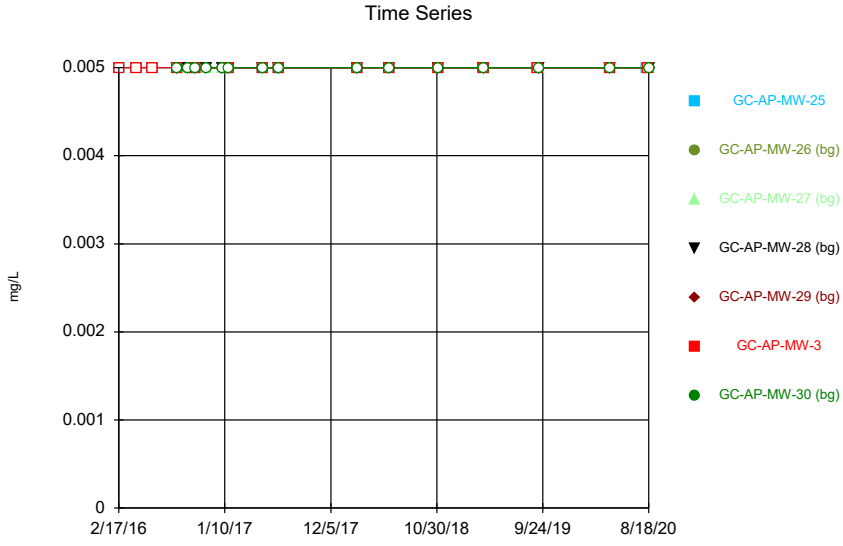
Hollow symbols indicate censored values.



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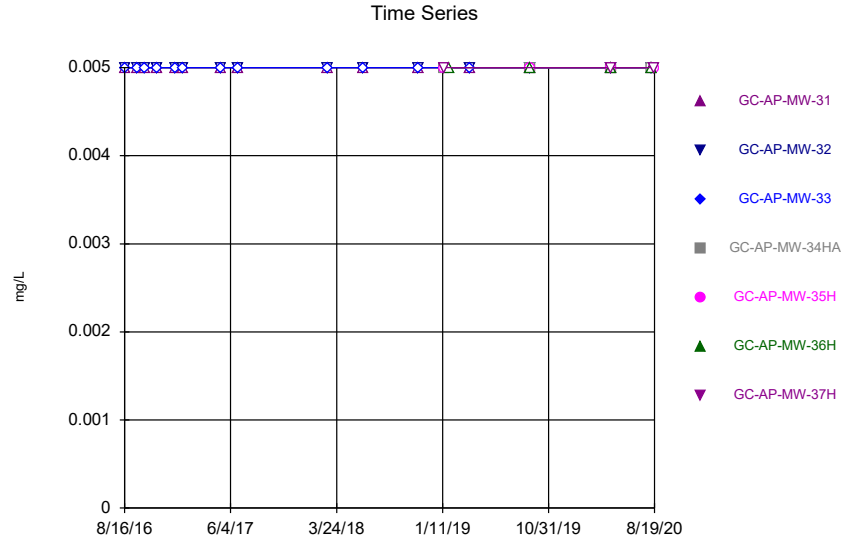
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



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Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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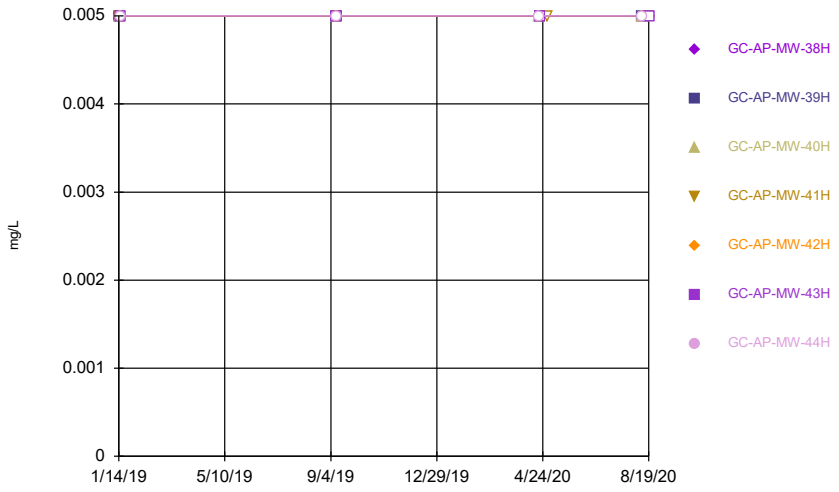
Time Series



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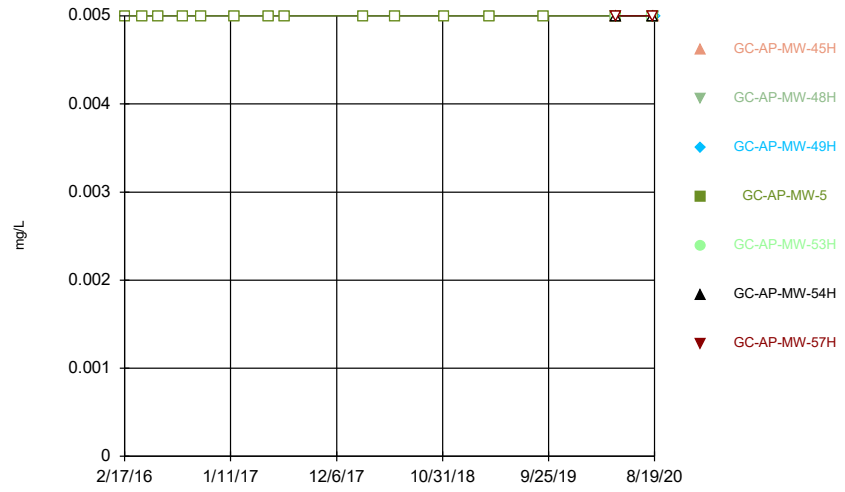
Time Series



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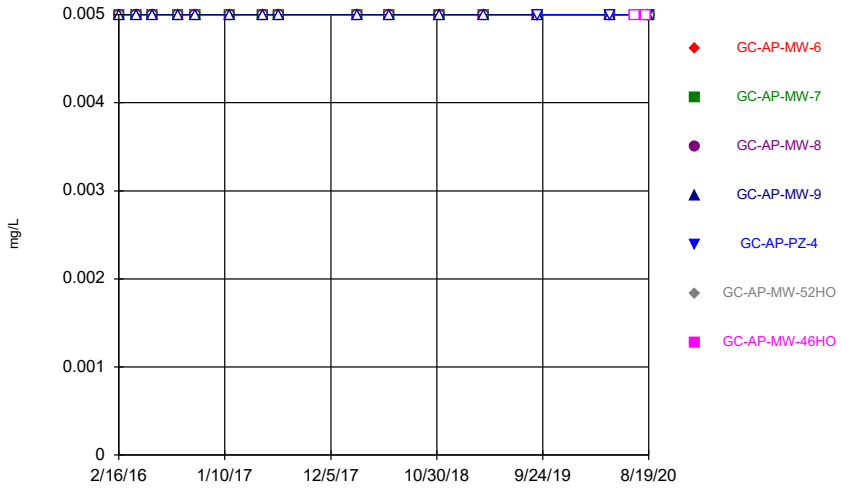
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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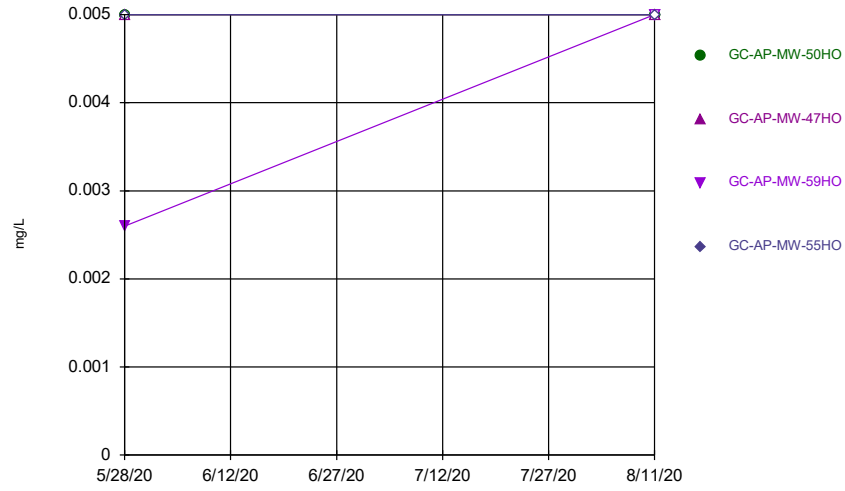
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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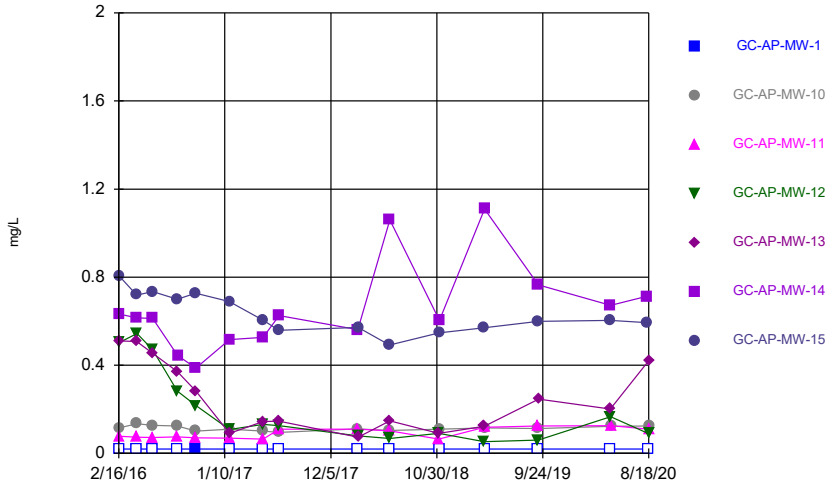
Hollow symbols indicate censored values.

Time Series



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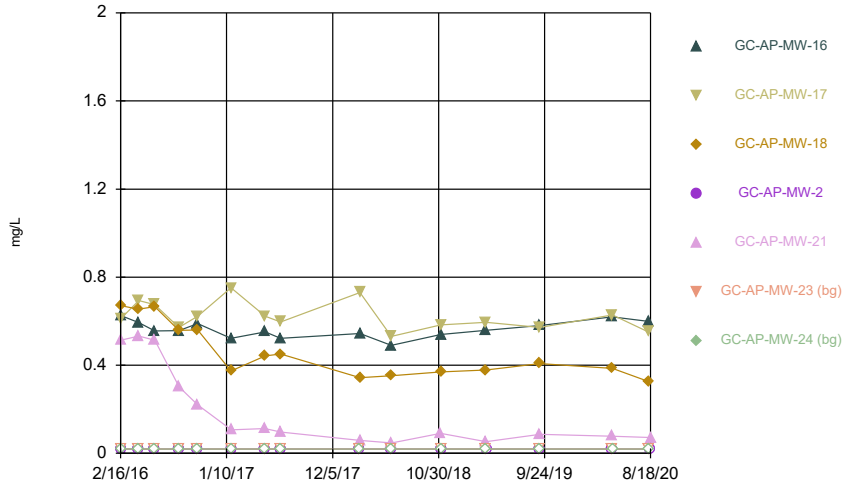
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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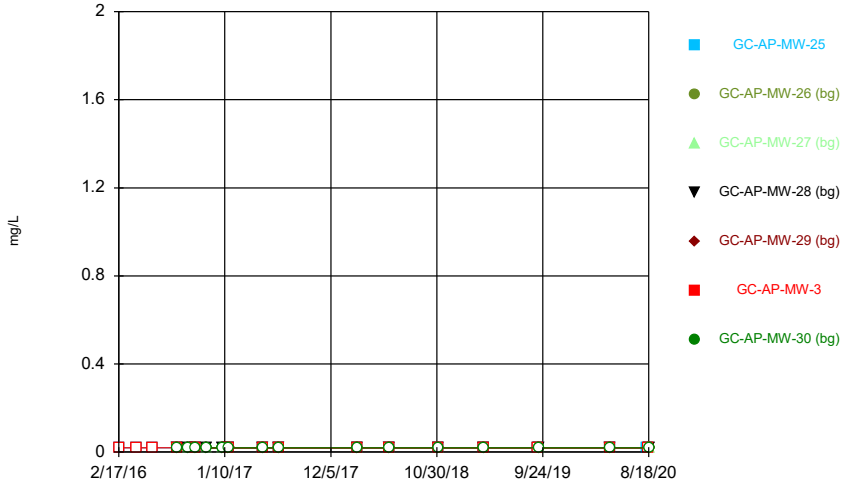
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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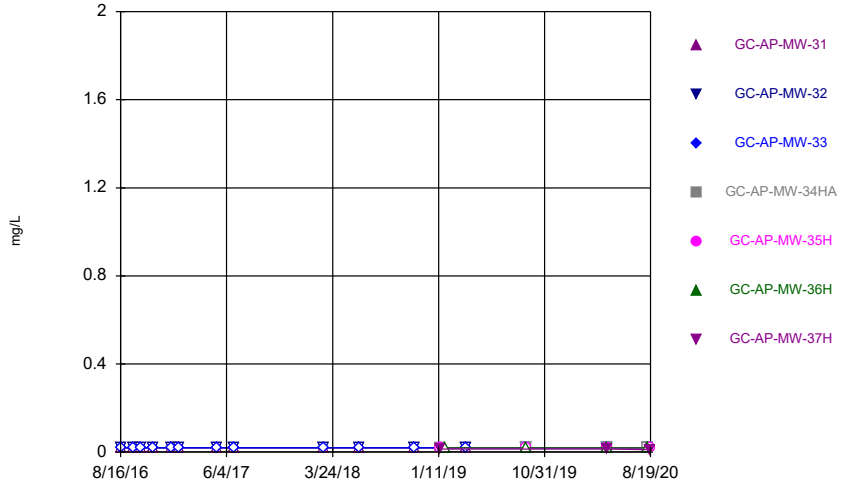
Time Series



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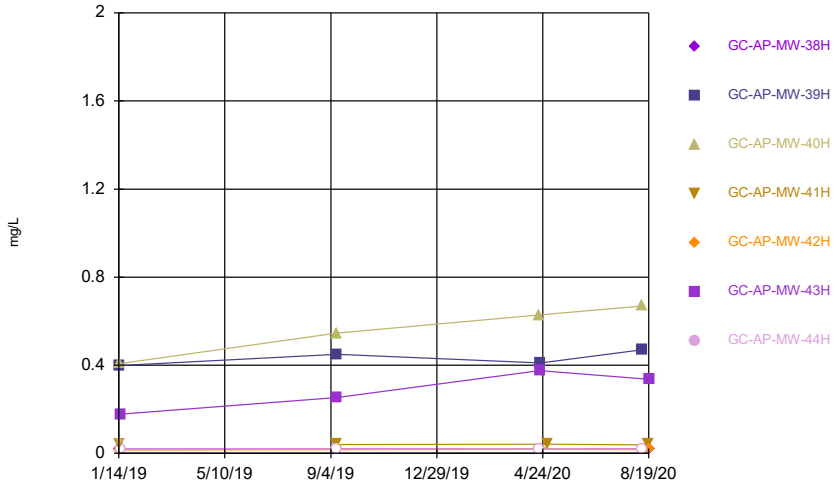

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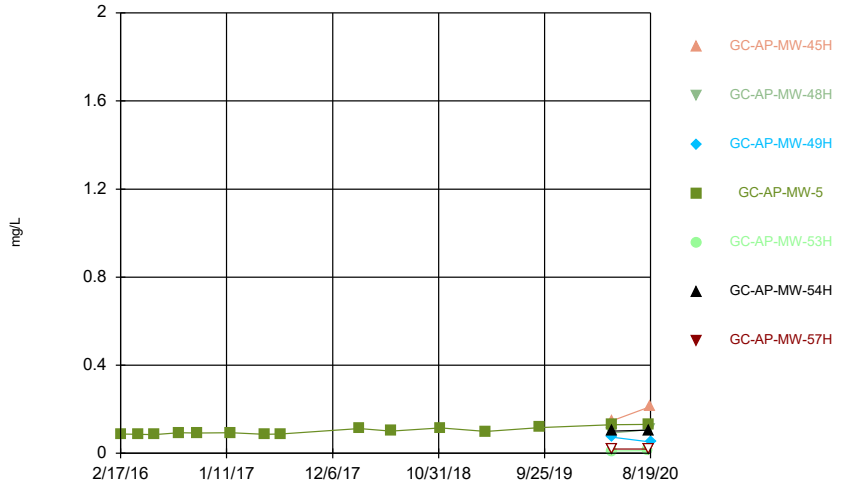
Time Series



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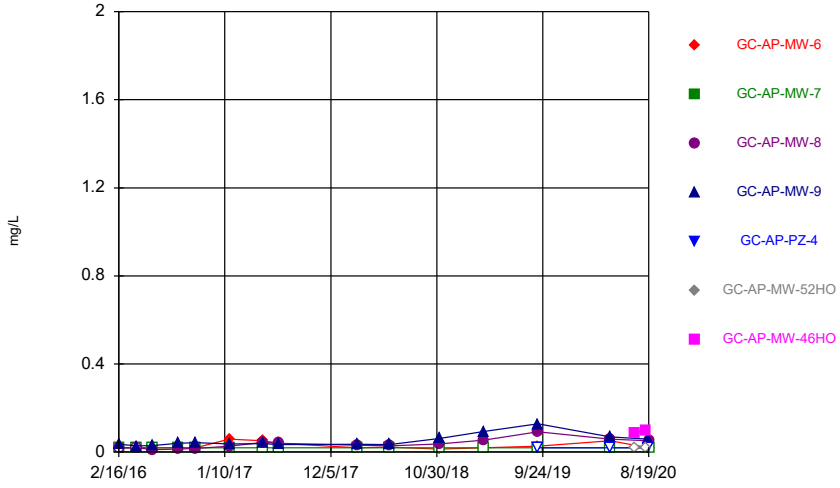

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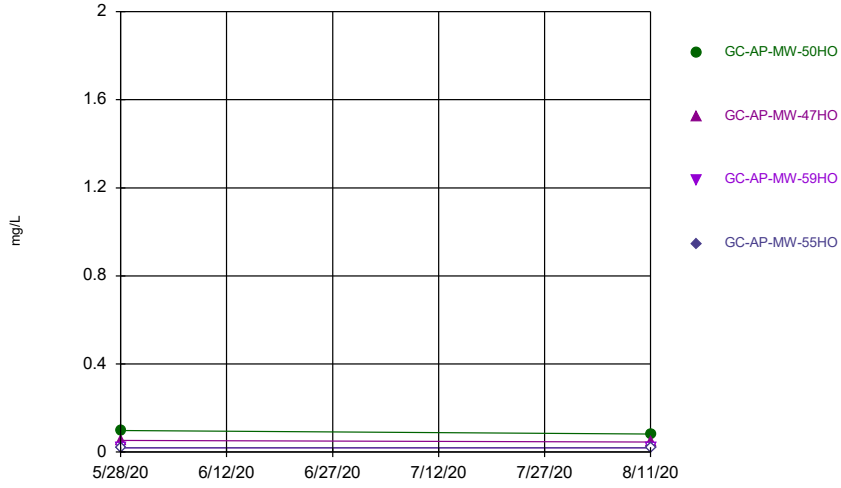

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Plant Greene County Client: Southern Company Data: Greene County AP

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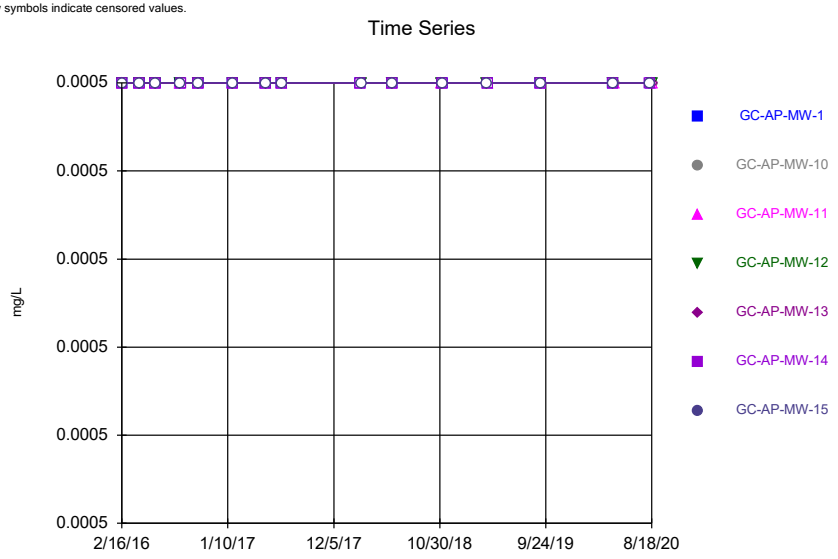
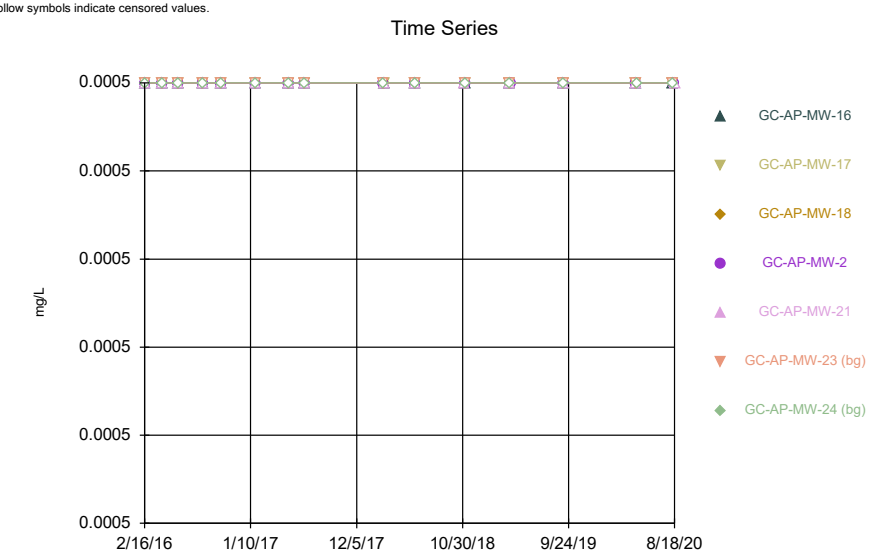


Constituent: Mercury Analysis Run 10/26/2020 4:53 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



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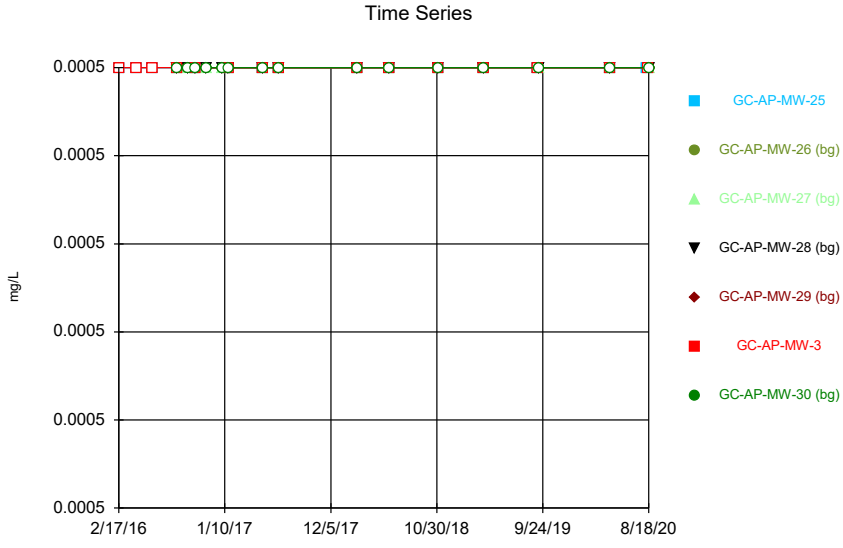
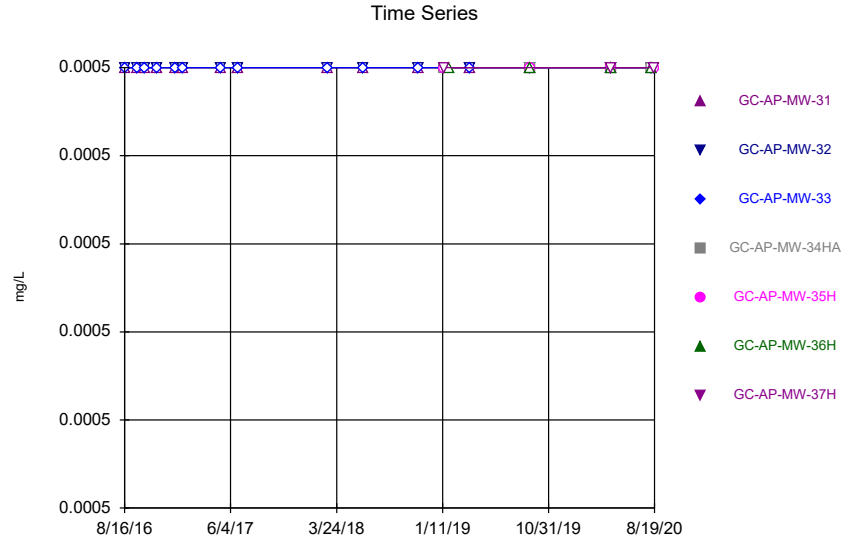
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Mercury Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



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Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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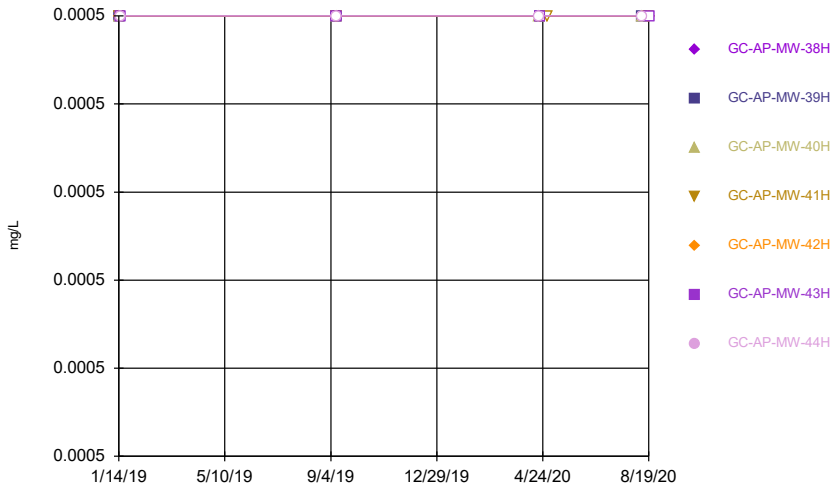
Time Series



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Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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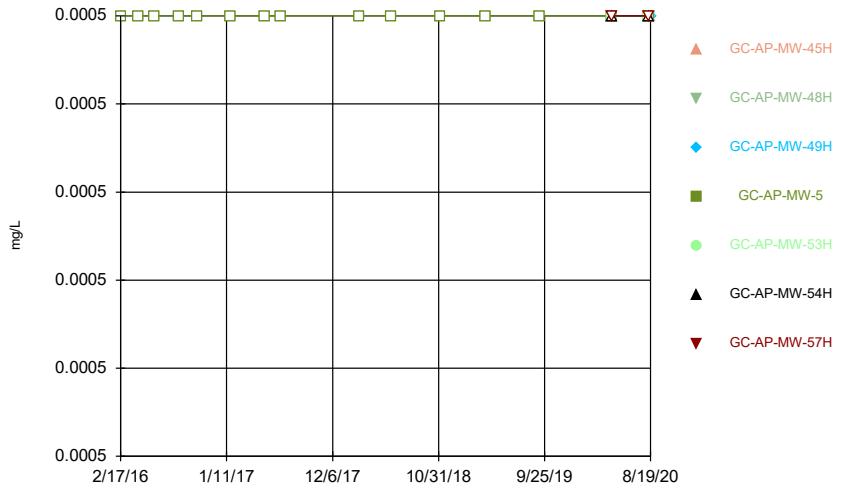
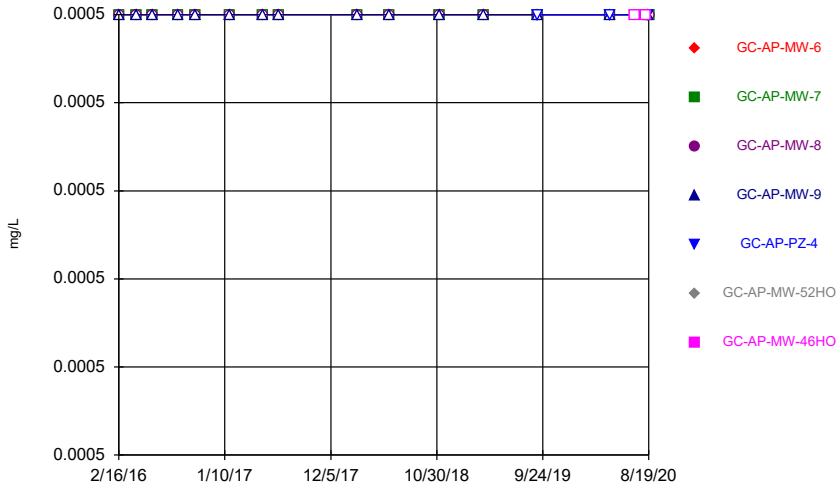
Time Series



Constituent: Mercury Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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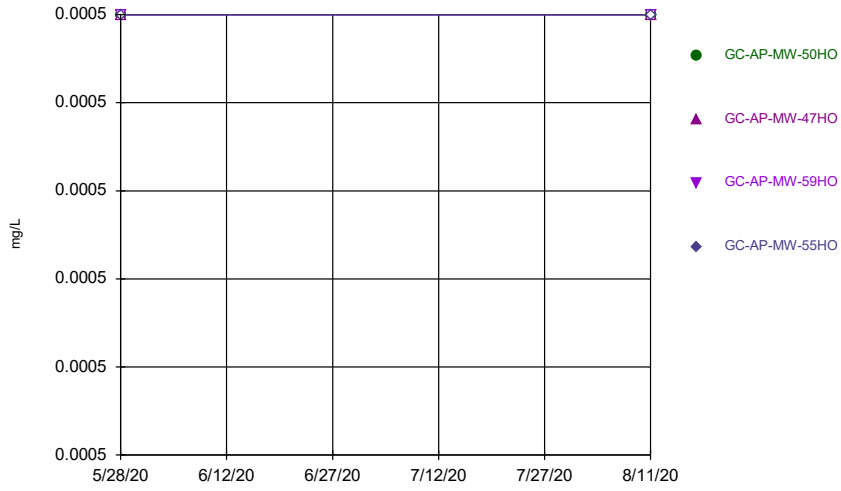
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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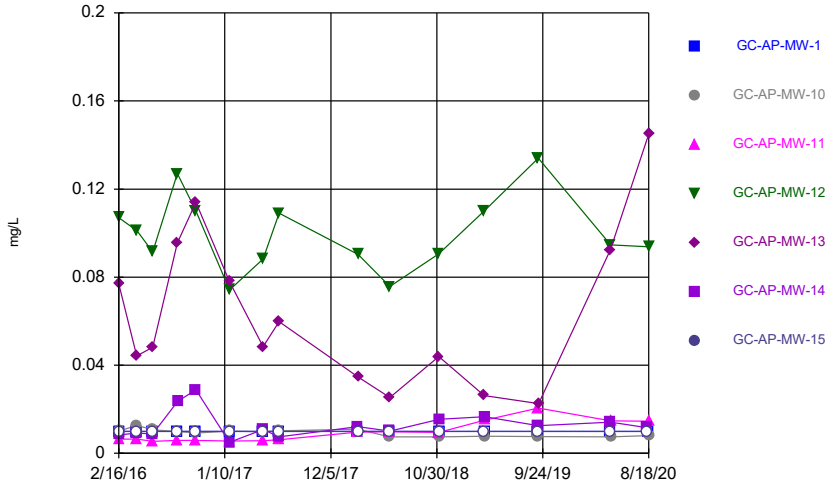
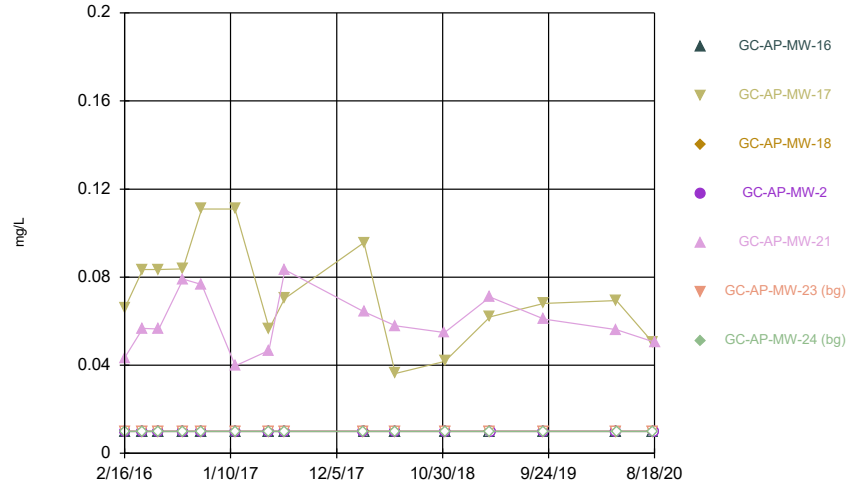
Time Series



Constituent: Molybdenum Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

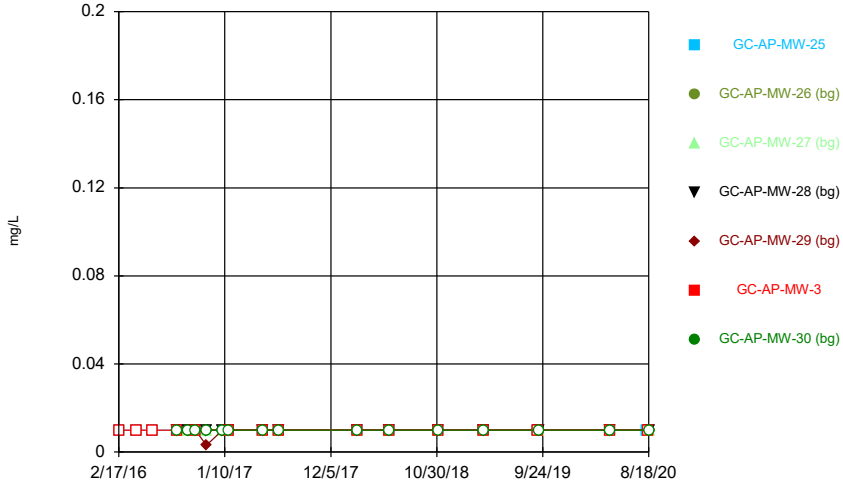
Time Series



Constituent: Molybdenum Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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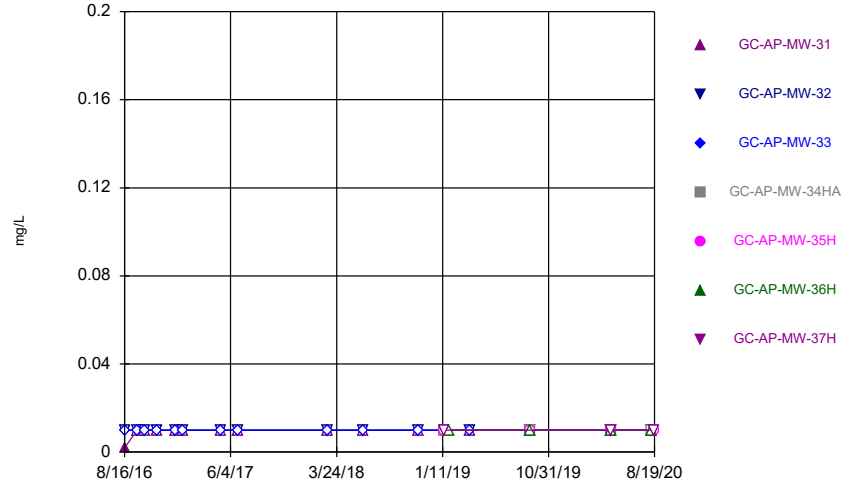
Time Series



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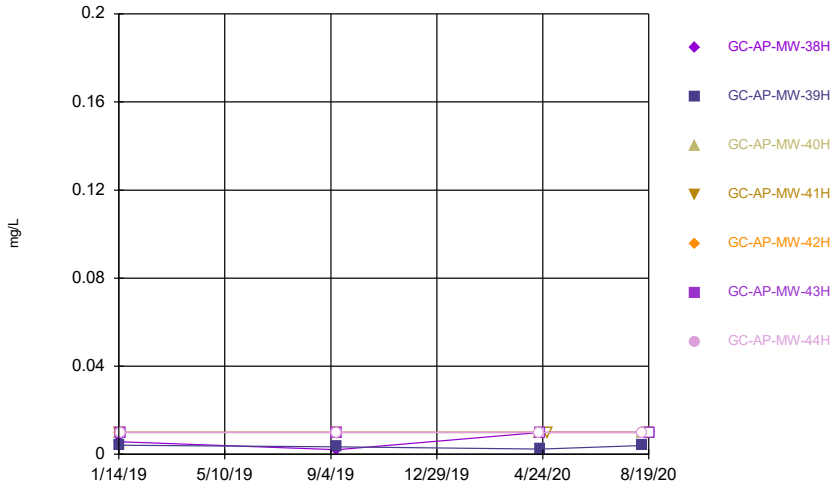
Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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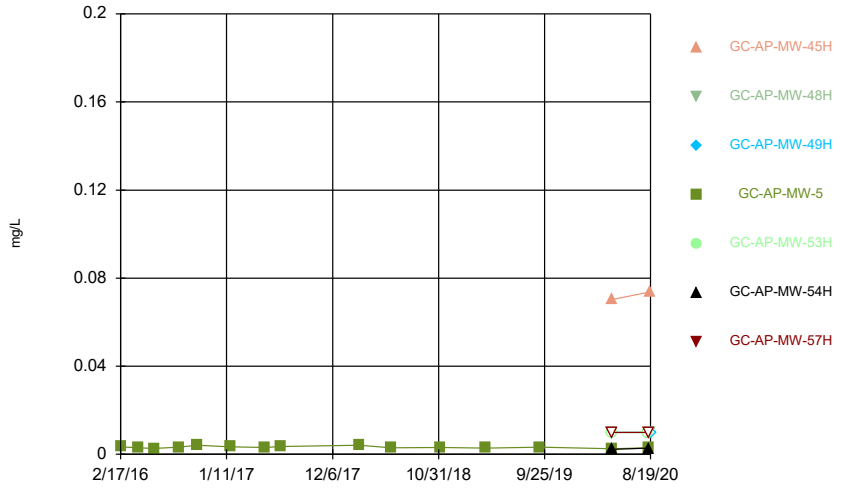
Time Series



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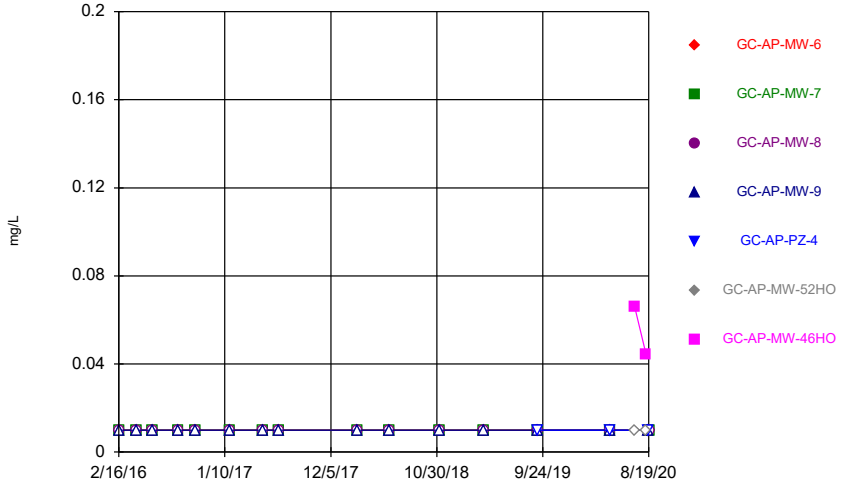

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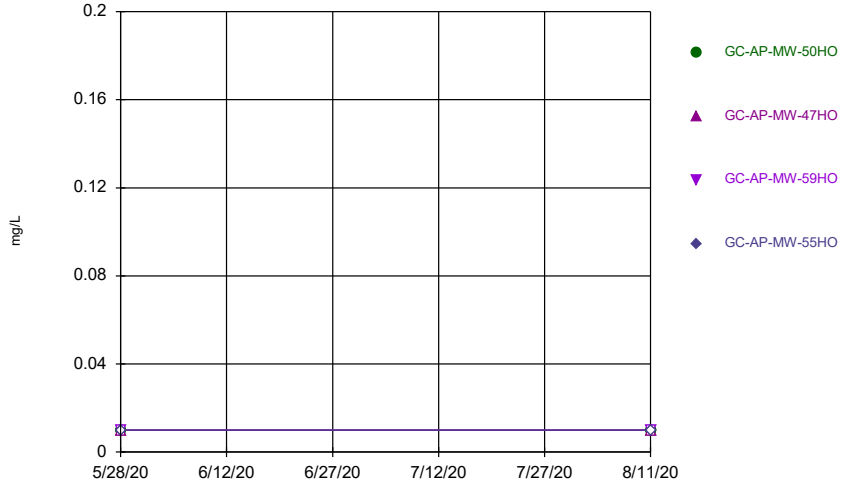

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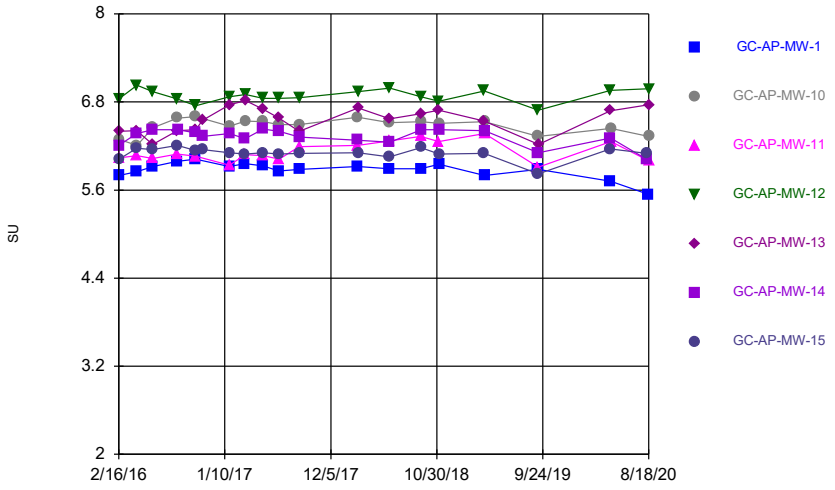
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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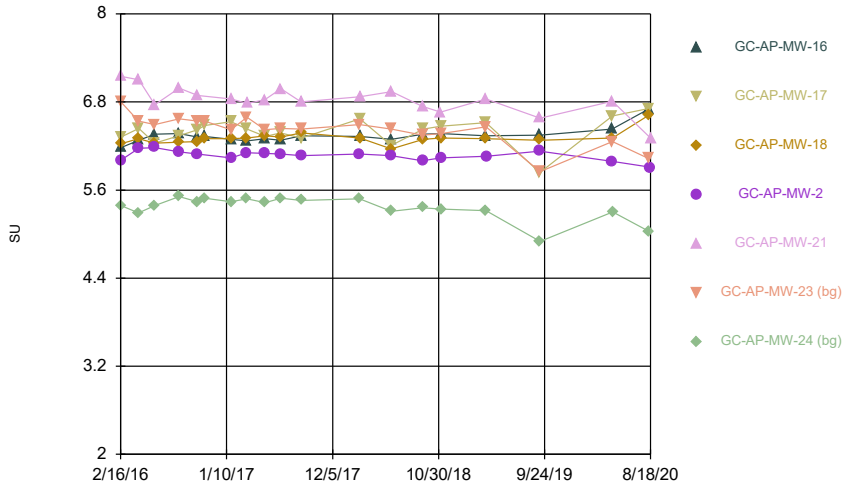
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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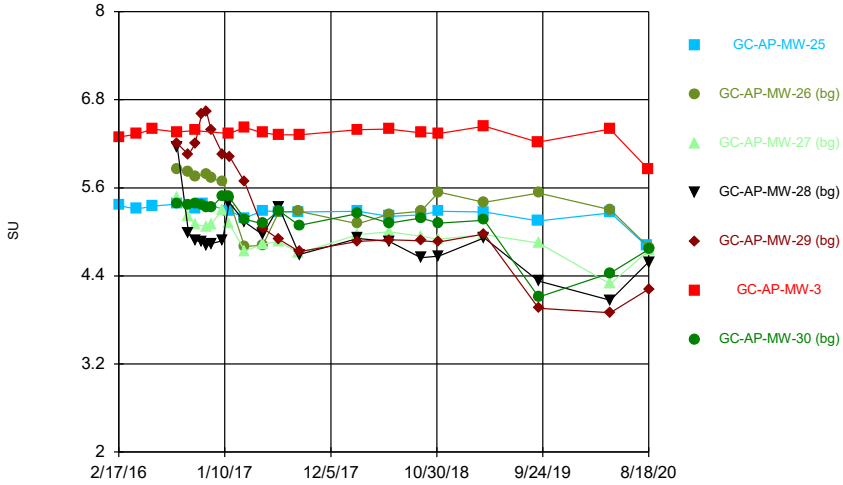
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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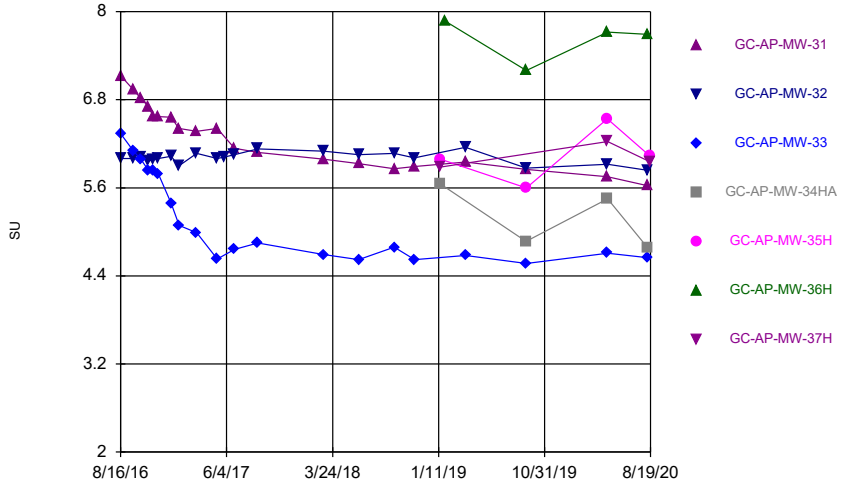
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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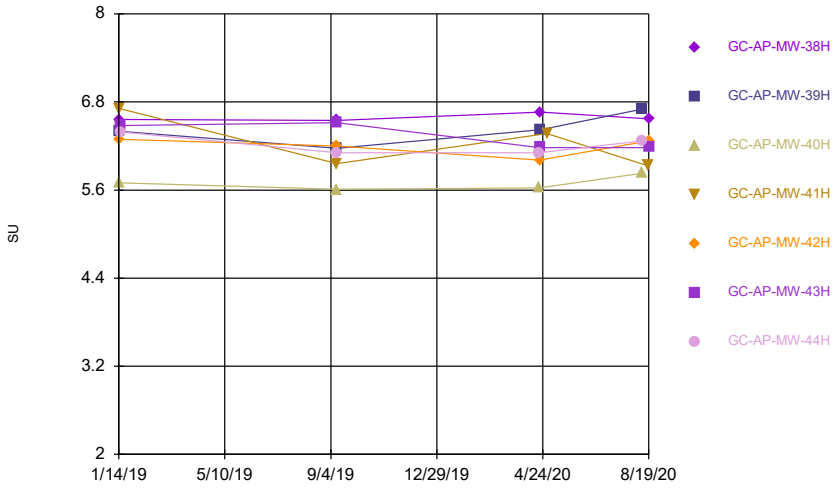
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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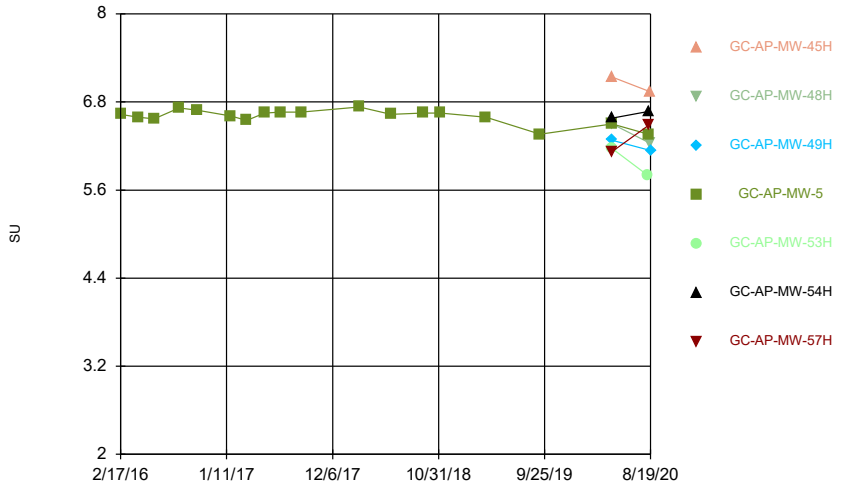
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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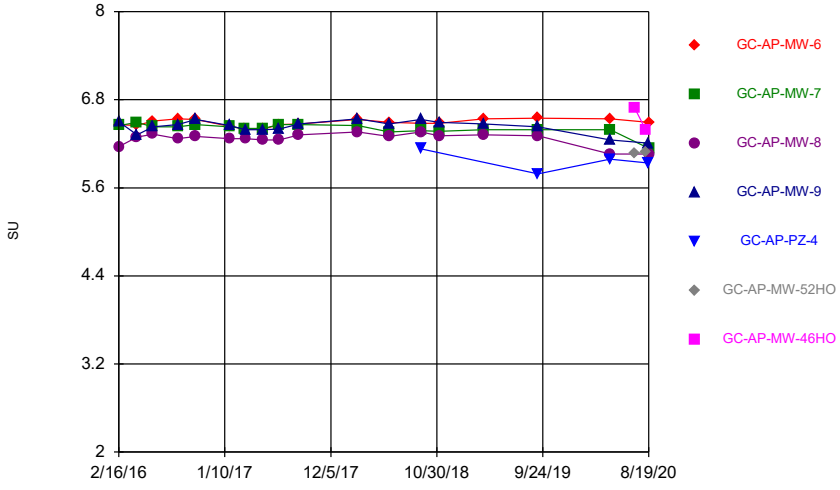
Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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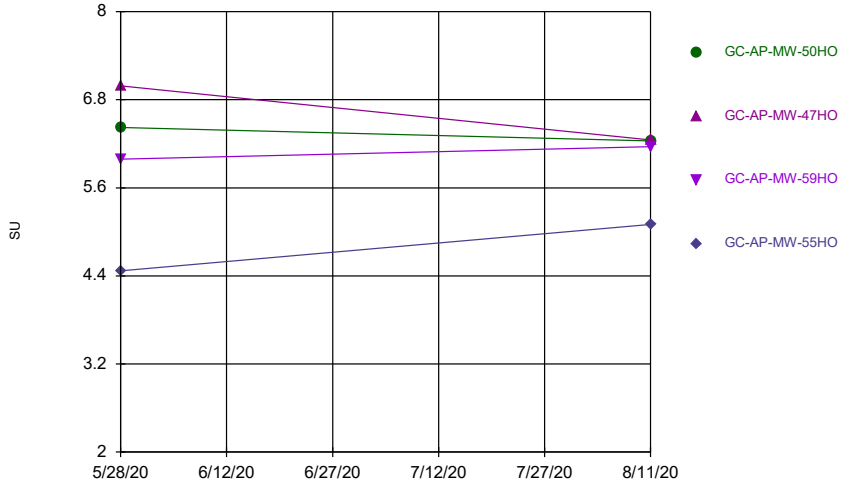
Time Series



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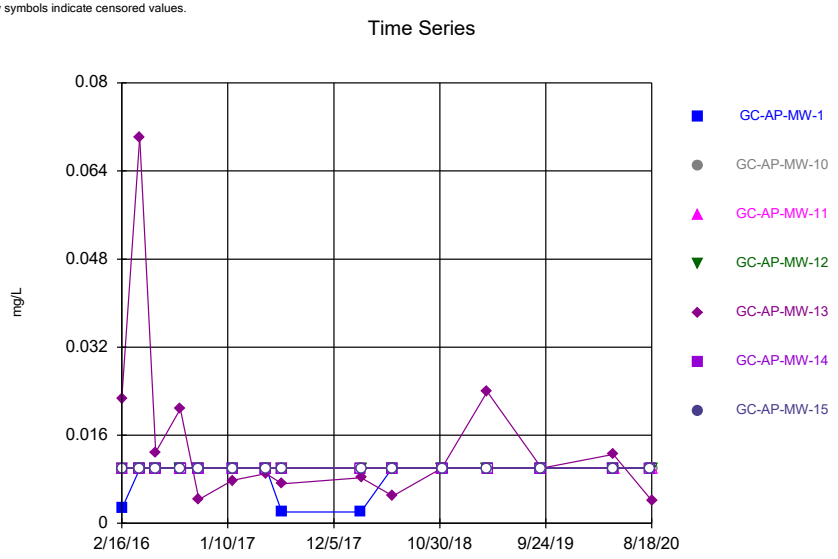

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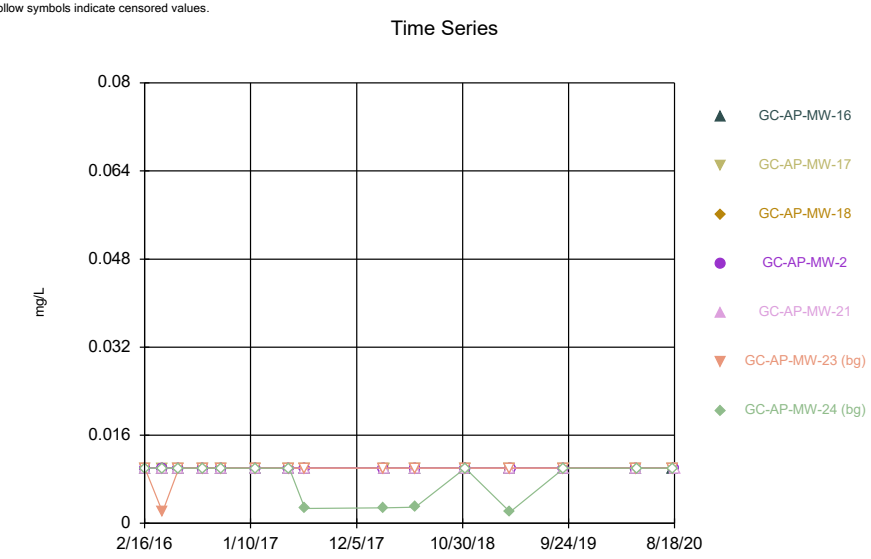

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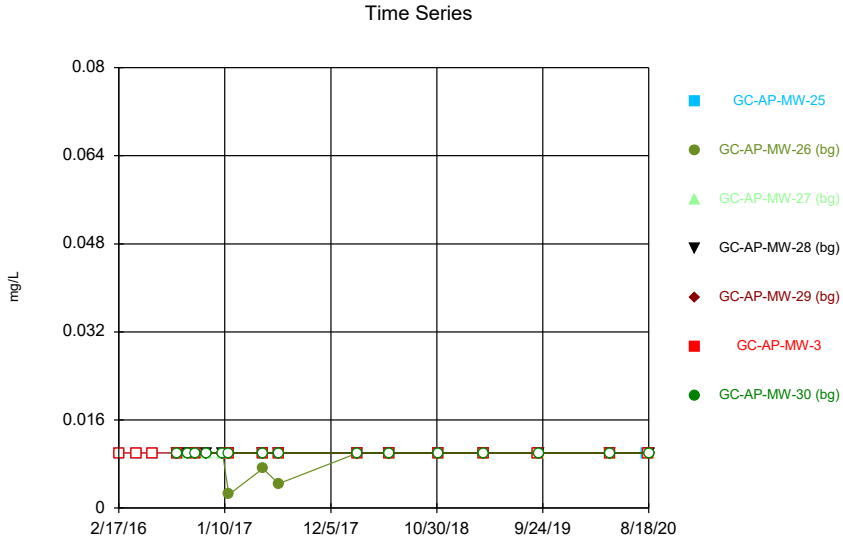

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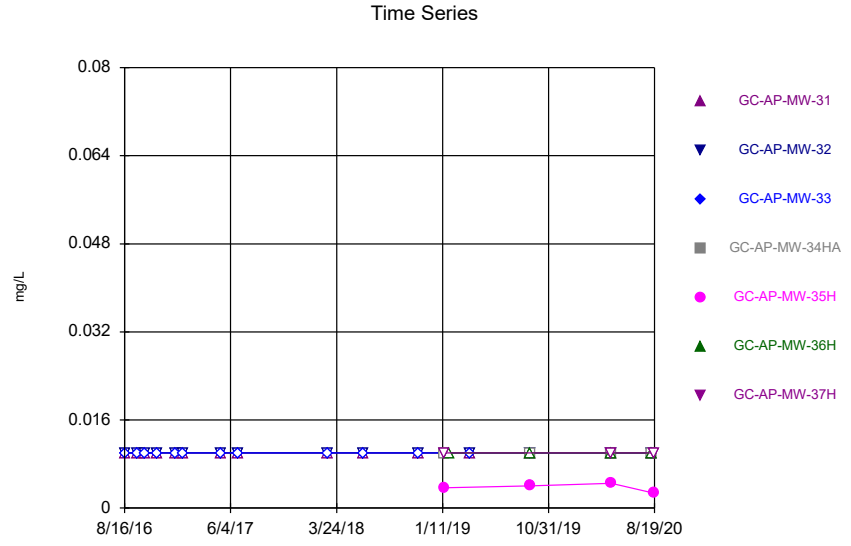

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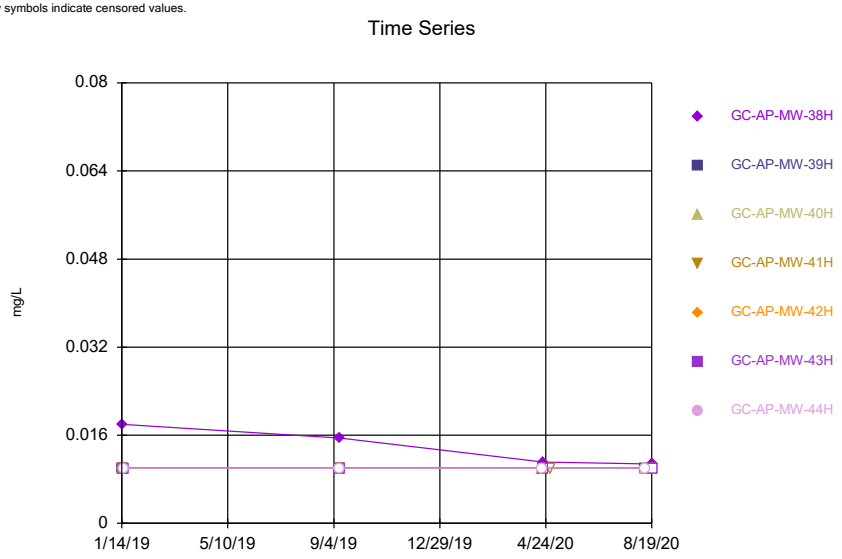

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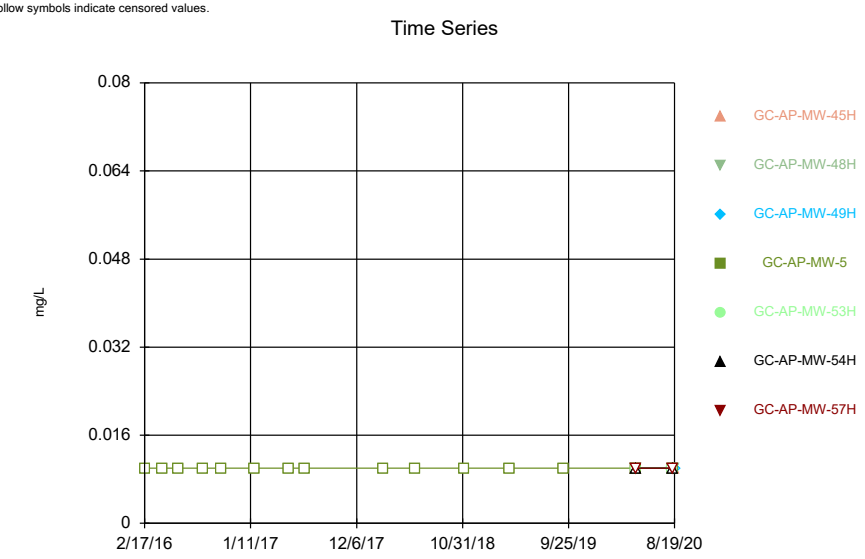

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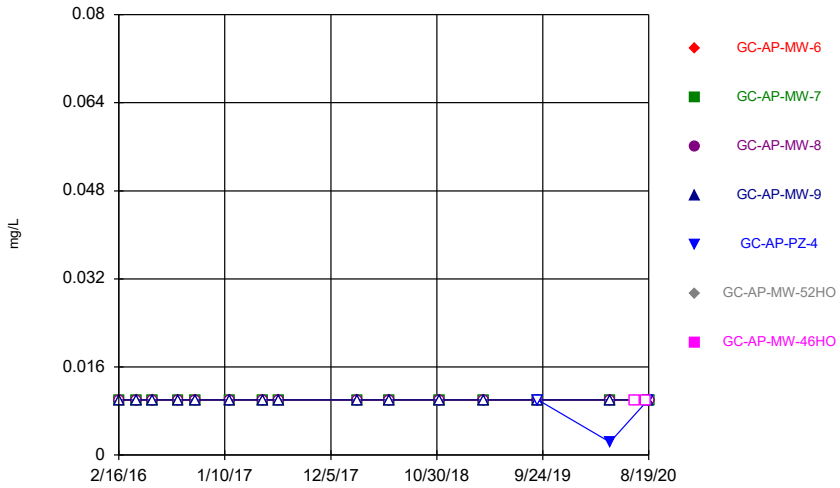

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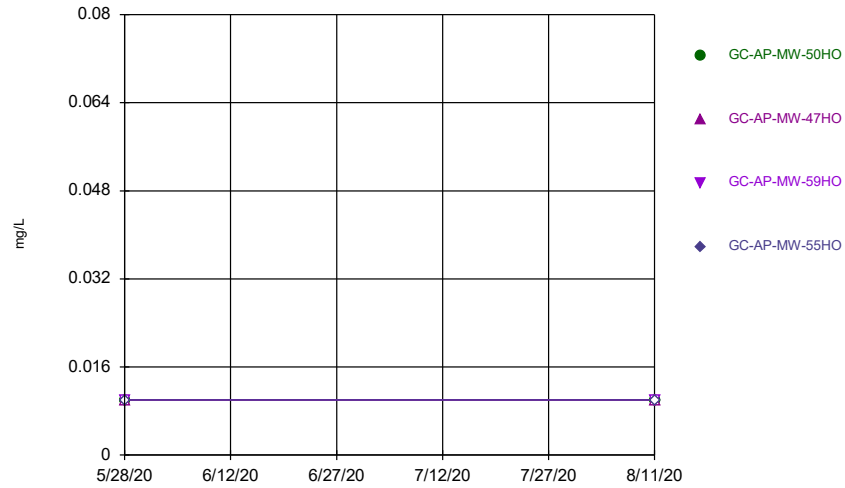

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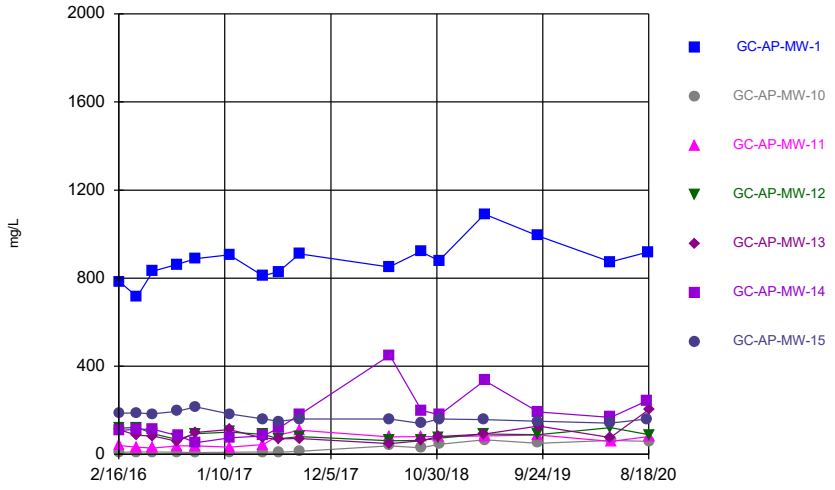
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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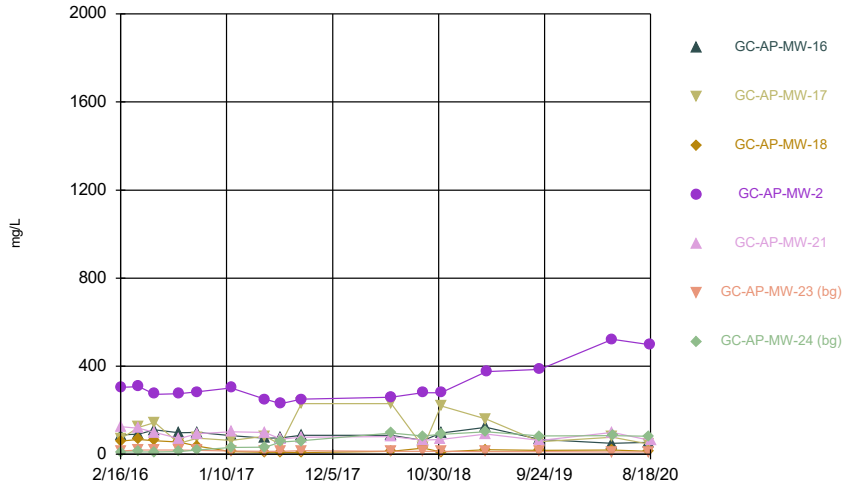
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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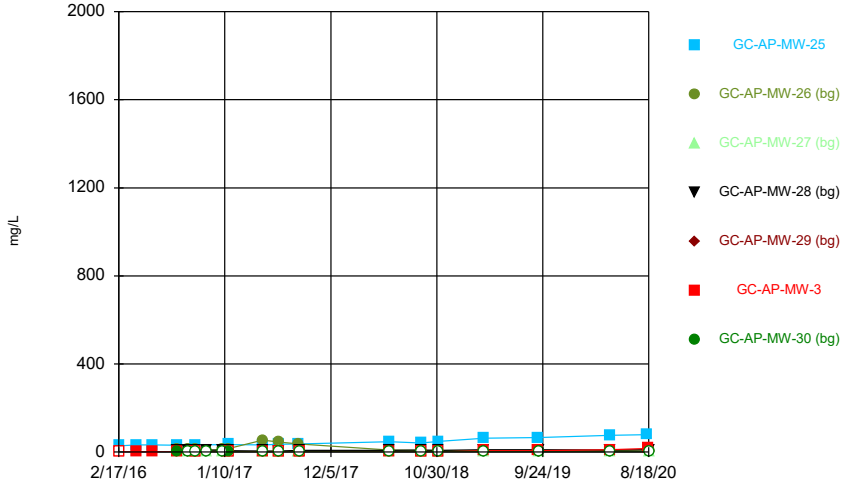
Time Series



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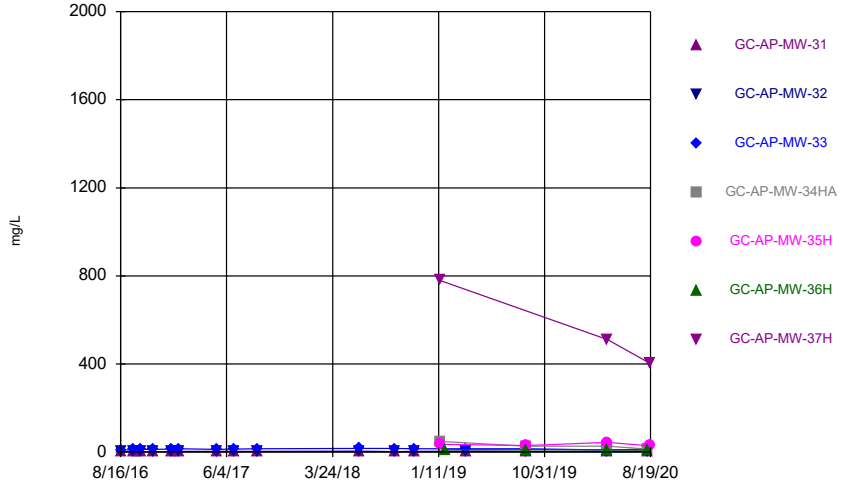
Time Series



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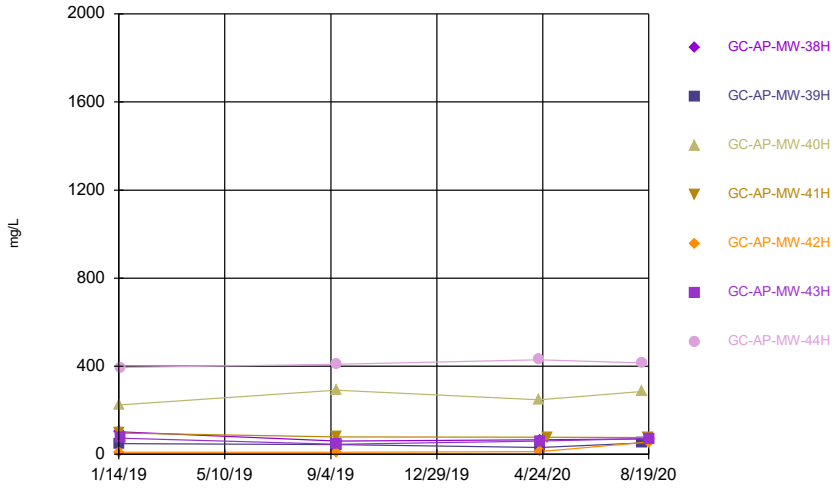

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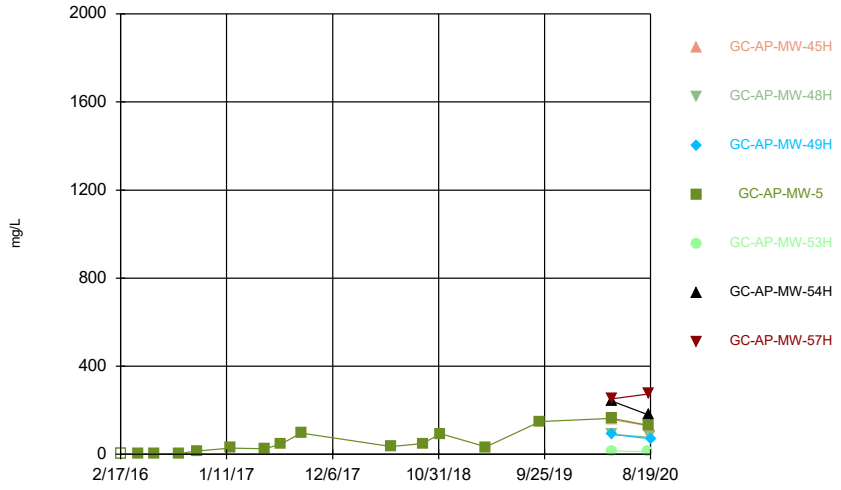

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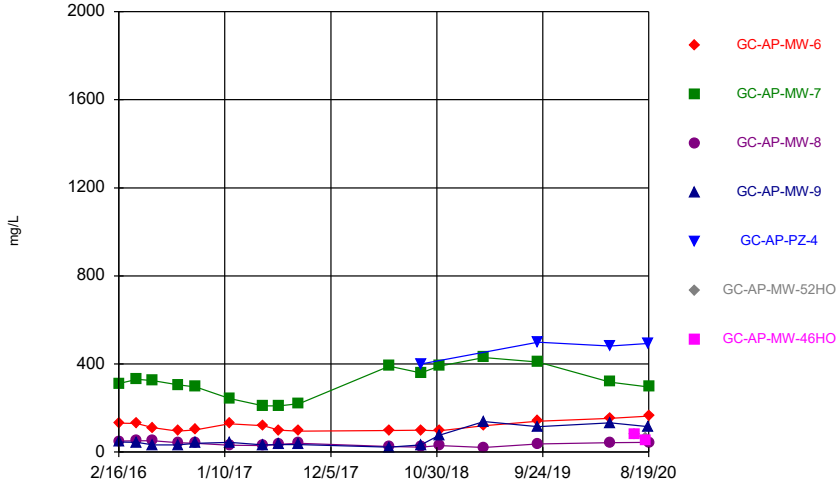

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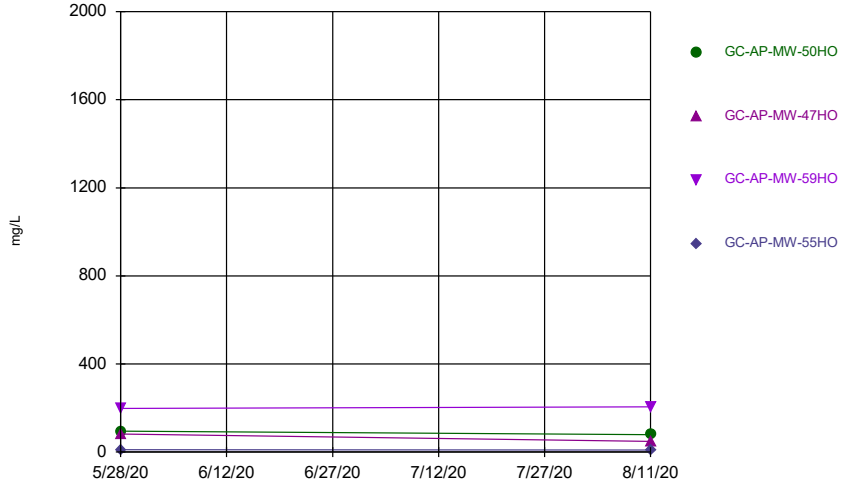

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Plant Greene County Client: Southern Company Data: Greene County AP

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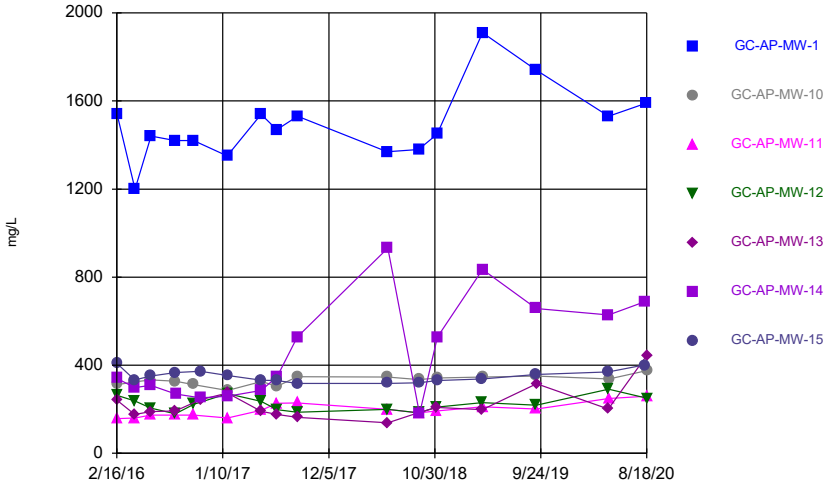
Time Series



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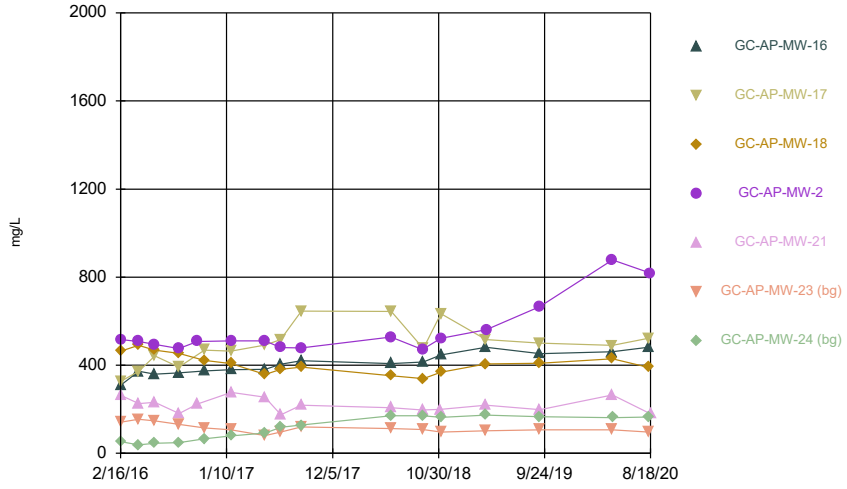
Time Series



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Plant Greene County Client: Southern Company Data: Greene County AP

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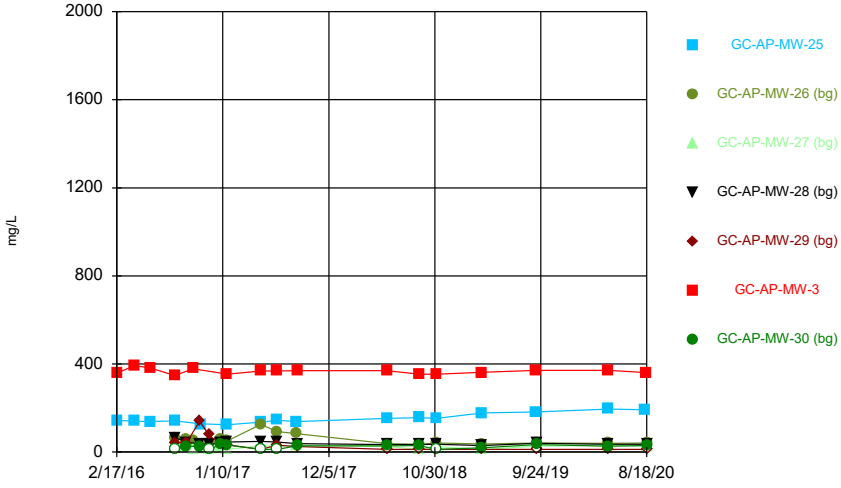
Time Series



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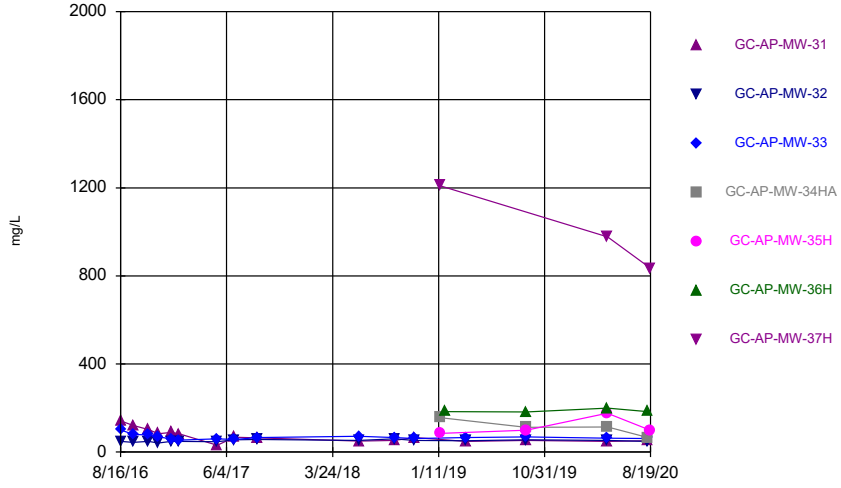
Time Series



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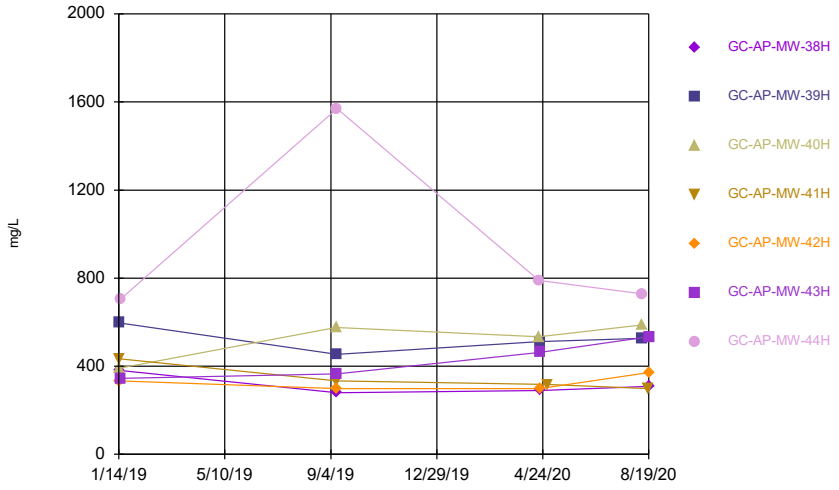

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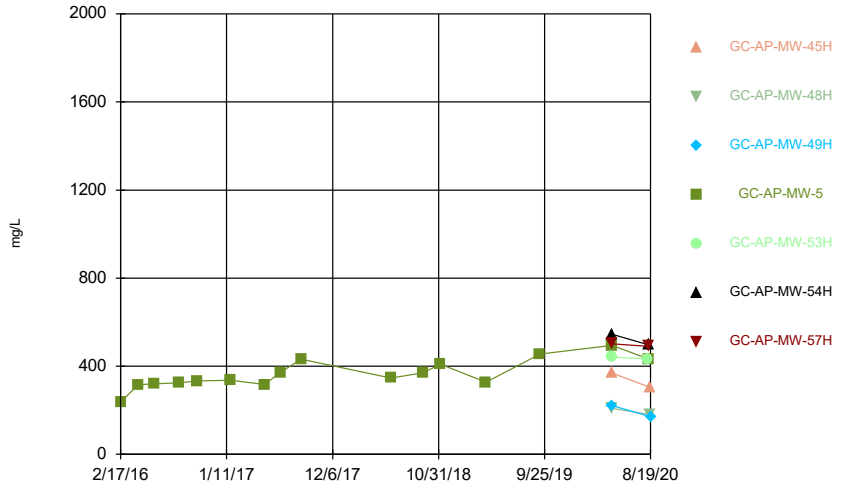
Time Series



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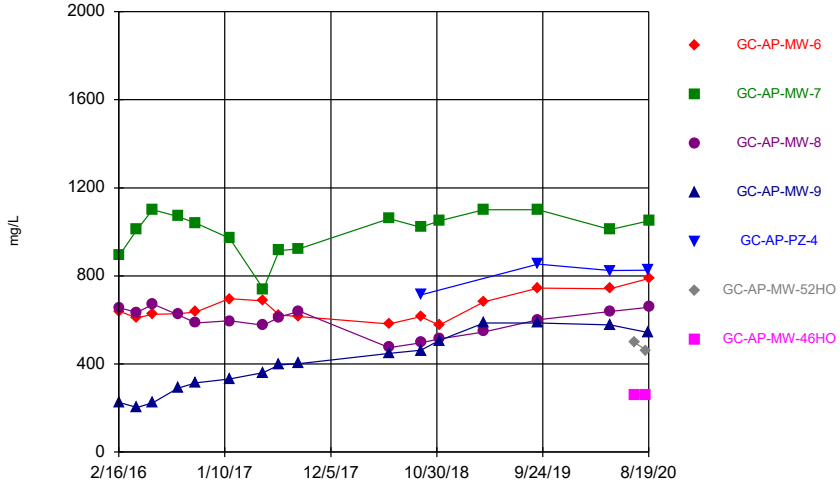
Time Series



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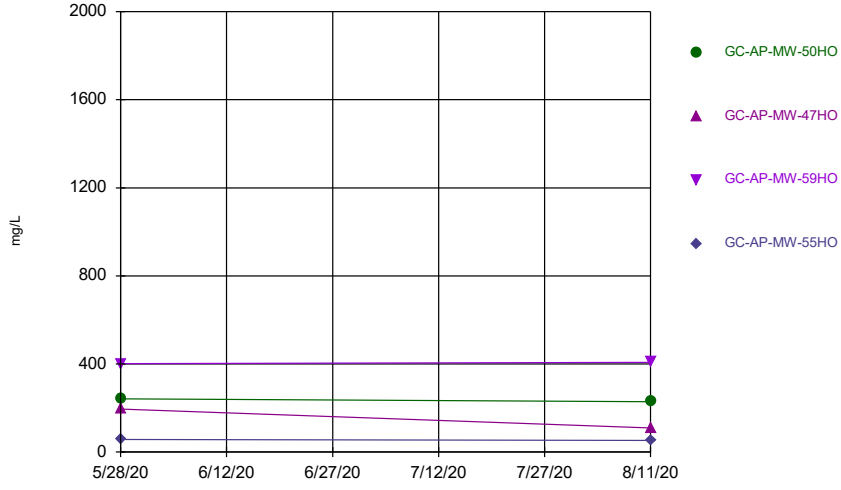
Time Series



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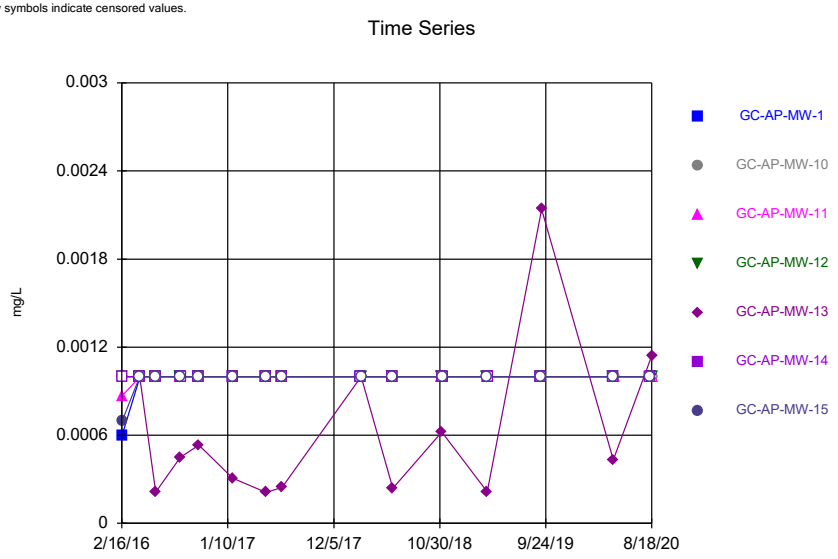

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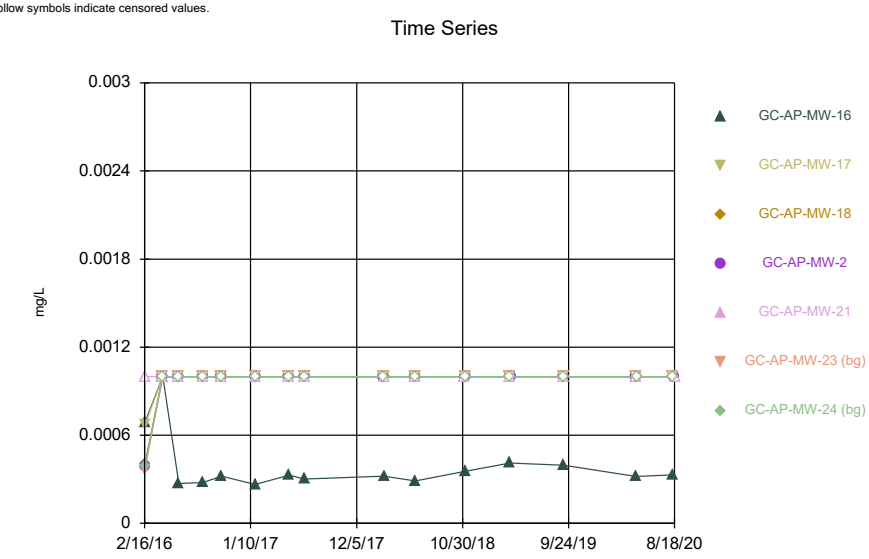
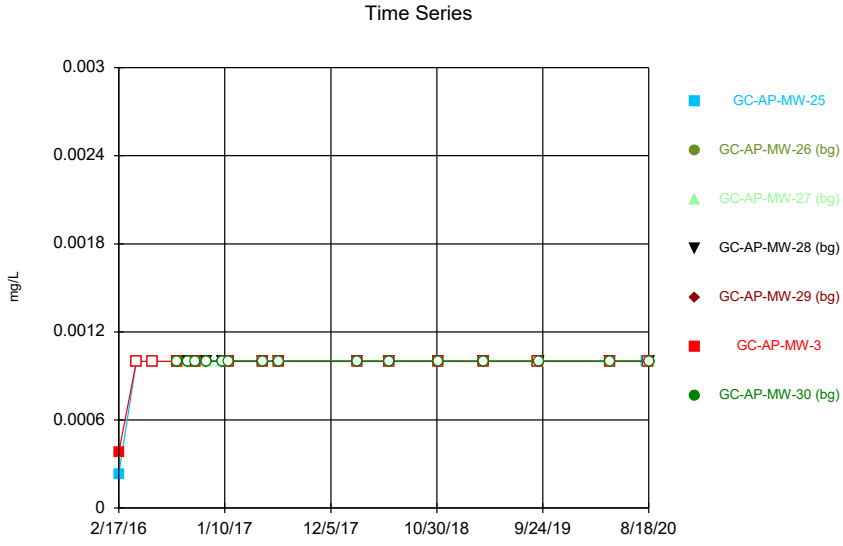
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



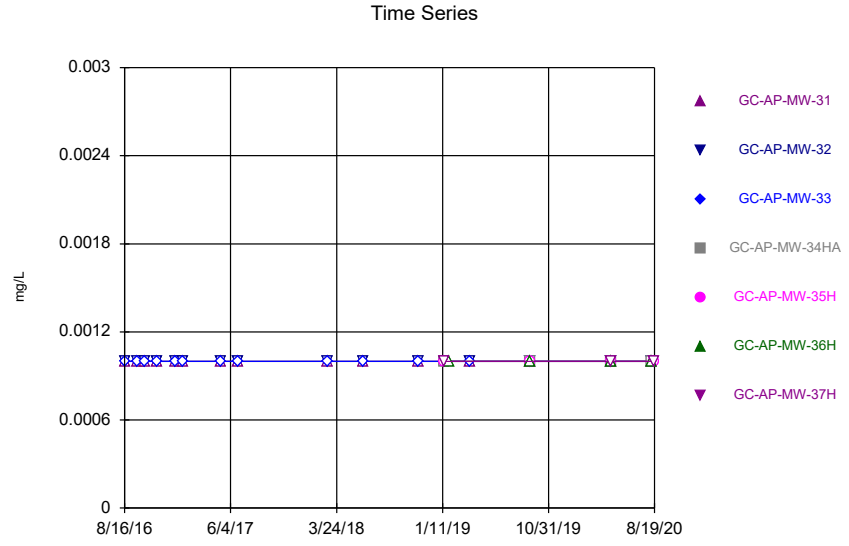
Constituent: Thallium Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



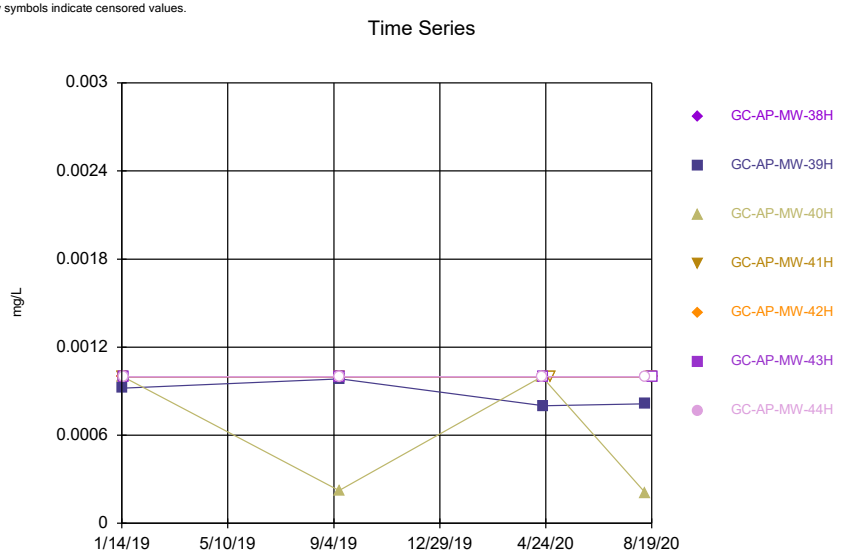
Constituent: Thallium Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



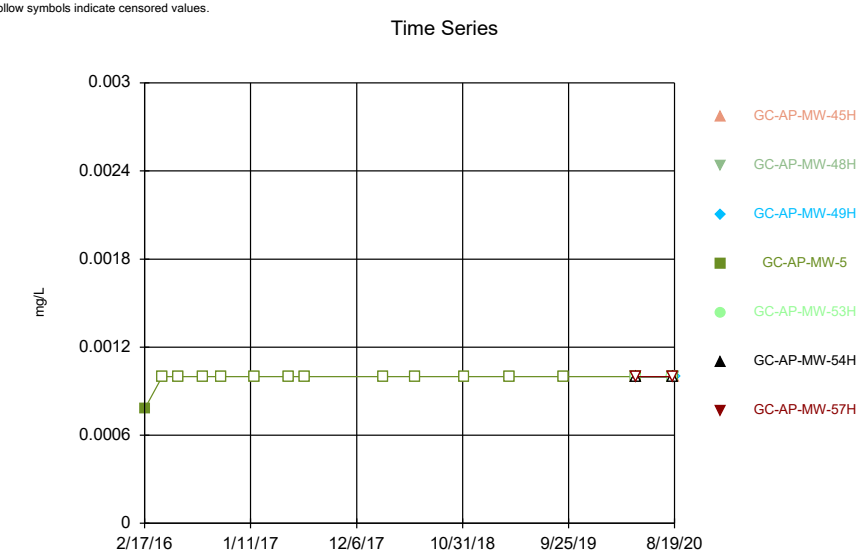
Constituent: Thallium Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



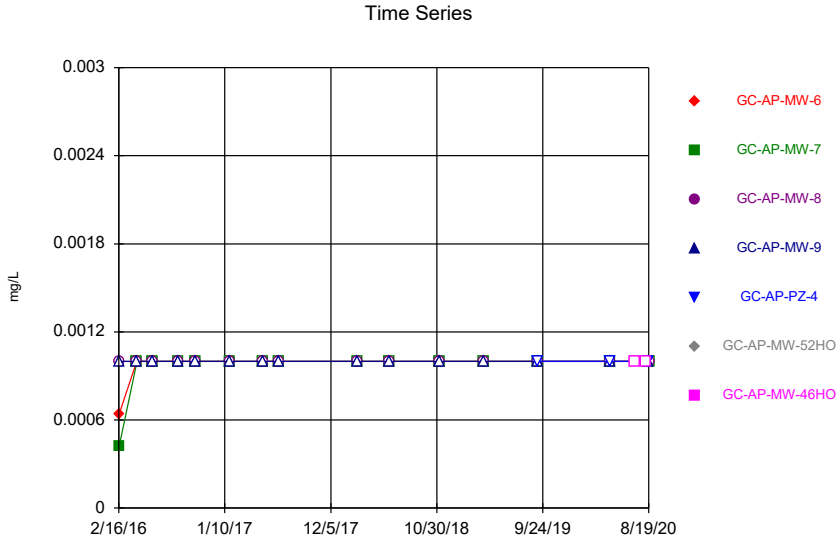
Constituent: Thallium Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



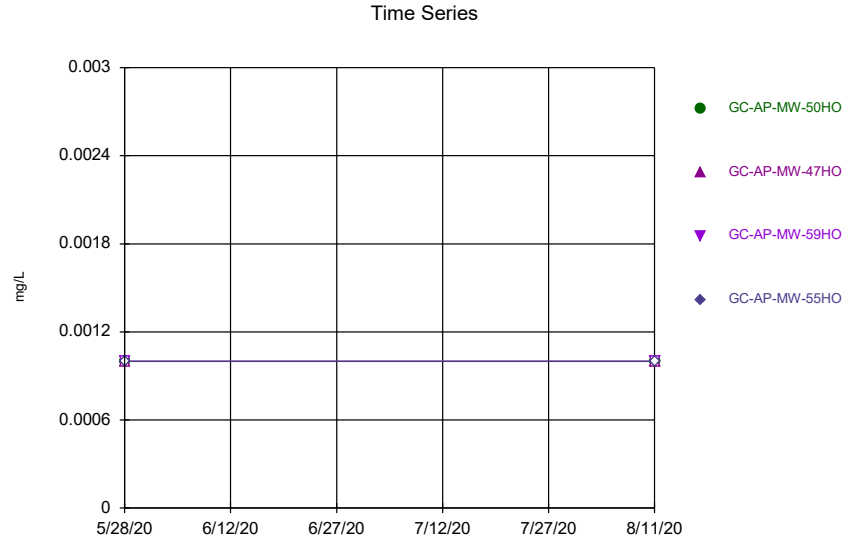
Constituent: Thallium Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Thallium Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Thallium Analysis Run 10/26/2020 4:54 PM
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/26/2020 4:54 PM

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
2/16/2016		0.000786 (J)		0.000933 (J)	0.000972 (J)	<0.003	
2/17/2016	<0.003		<0.003				<0.003
4/12/2016					<0.003	<0.003	<0.003
4/13/2016	<0.003	<0.003	<0.003	<0.003			
5/31/2016		<0.003	<0.003	0.000834 (J)	0.000869 (J)	0.00062 (J)	<0.003
6/1/2016	<0.003						
8/15/2016	<0.003						
8/16/2016		<0.003	<0.003	0.00118 (J)	0.00128 (J)		<0.003
8/17/2016						<0.003	
10/11/2016	<0.003						<0.003
10/12/2016		<0.003	<0.003	0.000899 (J)	0.00114 (J)	<0.003	
1/24/2017	0.000799 (J)						0.00111 (J)
1/25/2017		0.00128 (J)	0.000896 (J)	0.00136 (J)	0.00384	0.00106 (J)	
5/9/2017	<0.003		<0.003	<0.003	0.00323	<0.003	
5/10/2017		<0.003					<0.003
6/27/2017	<0.003						<0.003
6/28/2017		<0.003	<0.003	0.000683 (J)	0.00406	<0.003	
2/27/2018	<0.003	<0.003	<0.003			<0.003	
2/28/2018				0.000656 (J)	0.00199 (J)		<0.003
6/4/2018	<0.003						
6/5/2018		<0.003	<0.003				<0.003
6/6/2018				<0.003	0.00261 (J)	<0.003	
11/5/2018			<0.003	<0.003	0.00275 (J)		
11/6/2018	<0.003						<0.003
11/7/2018		<0.003				<0.003	
3/26/2019				0.00121 (J)	0.00219 (J)		<0.003
3/27/2019	<0.003	<0.003	<0.003			<0.003	
9/10/2019	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
9/11/2019					0.00261 (J)		
4/20/2020					0.00338		<0.003
4/21/2020	<0.003			<0.003		<0.003	
4/22/2020		<0.003	<0.003				
8/11/2020						<0.003	
8/12/2020							<0.003
8/17/2020	<0.003						
8/18/2020		<0.003	<0.003	<0.003	0.00388		

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/26/2020 4:54 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<0.003		
2/17/2016	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
4/12/2016			<0.003			<0.003	<0.003
4/13/2016	<0.003	<0.003		<0.003	<0.003		
6/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/15/2016	<0.003	<0.003	<0.003	<0.003			
8/16/2016					<0.003	<0.003	<0.003
10/11/2016				<0.003		<0.003	<0.003
10/12/2016	<0.003	<0.003	<0.003		<0.003		
1/24/2017	0.000935 (J)	0.000997 (J)	0.000984 (J)	0.00084 (J)		0.000886 (J)	0.000858 (J)
1/25/2017					0.00107 (J)		
5/9/2017				<0.003	<0.003	<0.003	
5/10/2017	<0.003	<0.003	<0.003				<0.003
6/27/2017	<0.003	<0.003	<0.003			<0.003	
6/28/2017				<0.003	<0.003		<0.003
2/27/2018				<0.003		<0.003	<0.003
2/28/2018	<0.003	<0.003	<0.003		<0.003		
6/4/2018				<0.003			
6/5/2018	<0.003	<0.003	<0.003			<0.003	<0.003
6/6/2018					<0.003		
11/5/2018					<0.003		
11/6/2018	<0.003	<0.003	<0.003	<0.003			
11/7/2018						<0.003	<0.003
3/26/2019	<0.003	0.000897 (J)	<0.003		0.000964 (J)	<0.003	<0.003
3/27/2019				<0.003			
9/9/2019		<0.003	<0.003	<0.003			
9/10/2019	<0.003				<0.003	<0.003	<0.003
4/20/2020	<0.003						
4/21/2020		<0.003	<0.003	<0.003	<0.003	<0.003	
4/22/2020							<0.003
8/11/2020	<0.003	<0.003					
8/12/2020			<0.003			<0.003	<0.003
8/17/2020				<0.003			
8/18/2020					<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/26/2020 4:54 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.003					<0.003	
4/12/2016	<0.003					<0.003	
6/1/2016	<0.003					<0.003	
8/15/2016						<0.003	
8/16/2016					<0.003		<0.003
8/17/2016	<0.003	<0.003	<0.003	<0.003			
9/20/2016		<0.003	<0.003	<0.003	<0.003		<0.003
10/11/2016	<0.003				<0.003	<0.003	<0.003
10/12/2016		<0.003	<0.003	<0.003			
11/15/2016		<0.003	<0.003	<0.003	<0.003		<0.003
1/4/2017		<0.003	<0.003	<0.003	<0.003		<0.003
1/23/2017		0.001 (J)	0.00083 (J)				0.000701 (J)
1/24/2017	0.00111 (J)			0.00096 (J)		0.000906 (J)	
1/26/2017					0.00092 (J)		
5/9/2017	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/27/2017		<0.003	<0.003	<0.003	<0.003		<0.003
6/28/2017	<0.003					<0.003	
2/27/2018		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/28/2018	<0.003						
6/4/2018						<0.003	
6/5/2018		<0.003	<0.003	<0.003	<0.003		<0.003
6/6/2018	<0.003						
11/6/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/26/2019		<0.003	0.00137 (J)	0.000975 (J)	<0.003		0.000854 (J)
3/27/2019	<0.003					<0.003	
9/9/2019						<0.003	
9/10/2019	<0.003						
9/11/2019		<0.003	<0.003	<0.003	<0.003		<0.003
4/20/2020						<0.003	
4/21/2020		<0.003	<0.003	<0.003	<0.003		<0.003
4/22/2020	<0.003						
8/11/2020	<0.003						
8/17/2020						<0.003	
8/18/2020		<0.003	<0.003	<0.003	<0.003		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/26/2020 4:54 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.003	<0.003	<0.003				
9/19/2016	<0.003	<0.003	<0.003				
10/11/2016	<0.003	<0.003	<0.003				
11/14/2016	<0.003	<0.003	<0.003				
1/3/2017	<0.003	<0.003	<0.003				
1/24/2017	0.000928 (J)	0.00091 (J)					
1/25/2017			0.00112 (J)				
5/10/2017	<0.003	<0.003	<0.003				
6/27/2017	<0.003	<0.003	<0.003				
2/27/2018	<0.003	<0.003	<0.003				
6/5/2018	<0.003	<0.003	<0.003				
11/5/2018		<0.003					
11/6/2018	<0.003		<0.003				
1/15/2019							<0.003
1/16/2019					<0.003		
1/17/2019				<0.003			
1/30/2019						<0.003	
3/27/2019	<0.003	<0.003	<0.003				
9/10/2019				<0.003			
9/11/2019	<0.003	<0.003	<0.003		<0.003	<0.003	
4/21/2020					<0.003		
4/22/2020	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
8/11/2020	<0.003					<0.003	
8/12/2020		<0.003	<0.003	<0.003			
8/18/2020					<0.003		
8/19/2020							<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/26/2020 4:54 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	<0.003						
1/15/2019		<0.003	<0.003	<0.003	<0.003		
1/16/2019						<0.003	<0.003
9/10/2019			<0.003				
9/11/2019	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003
4/20/2020			<0.003				<0.003
4/21/2020					<0.003	<0.003	
4/22/2020	<0.003	<0.003					
4/29/2020				<0.003			
8/11/2020		<0.003					
8/12/2020			<0.003				<0.003
8/18/2020				<0.003			
8/19/2020	<0.003				<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/26/2020 4:54 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
2/17/2016				<0.003			
4/12/2016				<0.003			
5/31/2016				<0.003			
8/17/2016				<0.003			
10/11/2016				<0.003			
1/24/2017				0.000728 (J)			
5/9/2017				<0.003			
6/28/2017				<0.003			
2/27/2018				<0.003			
6/5/2018				<0.003			
11/6/2018				<0.003			
3/27/2019				<0.003			
9/11/2019				<0.003			
4/20/2020	<0.003				<0.003	<0.003	<0.003
4/21/2020		<0.003	<0.003	<0.003			
8/11/2020					<0.003		
8/12/2020				<0.003		<0.003	<0.003
8/17/2020	<0.003	<0.003					
8/19/2020			<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/26/2020 4:54 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.003	<0.003			
2/17/2016	<0.003	<0.003					
4/12/2016	<0.003						
4/13/2016		<0.003	<0.003	<0.003			
5/31/2016	<0.003	<0.003					
6/1/2016			<0.003	<0.003			
8/17/2016	<0.003	<0.003	<0.003	<0.003			
10/11/2016	<0.003						
10/12/2016		<0.003	<0.003	<0.003			
1/24/2017	0.000792 (J)						
1/25/2017		0.000839 (J)	0.000833 (J)	0.000847 (J)			
5/10/2017	<0.003	<0.003	<0.003	<0.003			
6/28/2017	<0.003	<0.003	<0.003	<0.003			
2/27/2018	<0.003	<0.003	<0.003	<0.003			
6/5/2018	<0.003	<0.003	<0.003	<0.003			
11/7/2018	<0.003	<0.003	<0.003	<0.003			
3/26/2019	0.00141 (J)	<0.003	<0.003	<0.003			
9/10/2019	<0.003	<0.003	<0.003	<0.003	<0.003		
4/20/2020					<0.003		
4/21/2020	<0.003	<0.003	<0.003	<0.003			
7/6/2020						<0.003	<0.003
8/11/2020						<0.003	<0.003
8/17/2020					<0.003		
8/18/2020				<0.003			
8/19/2020	<0.003	<0.003	<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/26/2020 4:54 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.003	<0.003	<0.003	<0.003
8/11/2020	<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:54 PM

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
2/16/2016		0.0123		<0.005	0.0141	0.0202	
2/17/2016	0.0181		0.00437 (J)				<0.005
4/12/2016					0.0144	0.0214	<0.005
4/13/2016	0.0178	0.0143	0.00695	<0.005			
5/31/2016		0.0125	0.0063	<0.005	0.00984	0.0156	<0.005
6/1/2016	0.016						
8/15/2016	0.0182						
8/16/2016		0.0128	0.0068	<0.005	0.0126		<0.005
8/17/2016						0.0153	
10/11/2016	0.0186						<0.005
10/12/2016		0.0145	0.00709	<0.005	0.0117	0.0254	
1/24/2017	0.0173						<0.005
1/25/2017		0.0122	0.00718	<0.005	0.00316 (J)	0.0194	
5/9/2017	0.0176		0.00819	<0.005	0.00393 (J)	0.0361	
5/10/2017		0.0135					<0.005
6/27/2017	0.0165						<0.005
6/28/2017		0.0131	0.00664	<0.005	0.00406 (J)	0.022	
2/27/2018	0.0201	0.0146	0.00733			0.0265	
2/28/2018				<0.005	0.00278 (J)		<0.005
6/4/2018	0.0195						
6/5/2018		0.0233	0.00637				<0.005
6/6/2018				<0.005	0.00352 (J)	0.0372	
11/5/2018			0.00195 (J)	<0.005	0.00497 (J)		
11/6/2018	0.0189						<0.005
11/7/2018		0.0152				0.0289	
3/26/2019				<0.005	0.00251 (J)		<0.005
3/27/2019	0.0267	0.014	0.00573			0.0264	
9/10/2019	0.0226	0.0132	0.00378 (J)	<0.005		0.0263	<0.005
9/11/2019					0.00664		
4/20/2020					0.00181 (J)		<0.005
4/21/2020	0.0219			<0.005		0.0178	
4/22/2020		0.0121	0.00616				
8/11/2020						0.0207	
8/12/2020							<0.005
8/17/2020	0.0265						
8/18/2020		0.0121	0.00457 (J)	<0.005	0.00176 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:54 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<0.005		
2/17/2016	0.0788	0.177	0.133	0.0142		<0.005	<0.005
4/12/2016			0.134			<0.005	<0.005
4/13/2016	0.0759	0.271		0.0145	<0.005		
6/1/2016	0.292	0.251	0.11	0.0112	<0.005	<0.005	<0.005
8/15/2016	0.105	0.253	0.116	0.0154			
8/16/2016					<0.005	<0.005	<0.005
10/11/2016				0.0113		<0.005	<0.005
10/12/2016	0.0831	0.243	0.109		<0.005		
1/24/2017	0.0472	0.363	0.0825	0.0115		<0.005	<0.005
1/25/2017					<0.005		
5/9/2017				0.00989	<0.005	<0.005	
5/10/2017	0.0814	0.499	0.0776				<0.005
6/27/2017	0.0693	0.489	0.0672			<0.005	
6/28/2017				0.00848	<0.005		<0.005
2/27/2018				0.0106		<0.005	<0.005
2/28/2018	0.0852	0.532	0.063		<0.005		
6/4/2018				0.0124			
6/5/2018	0.0648	0.382	0.0661			<0.005	<0.005
6/6/2018					<0.005		
11/5/2018					<0.005		
11/6/2018	0.0701	0.299	0.0509	0.0085			
11/7/2018						<0.005	<0.005
3/26/2019	0.0952	0.32	0.0477		<0.005	<0.005	<0.005
3/27/2019				0.0101			
9/9/2019		0.356	0.0498	0.022			
9/10/2019	0.0786				<0.005	<0.005	<0.005
4/20/2020	0.105						
4/21/2020		0.689	0.0478	0.013	<0.005	<0.005	
4/22/2020							<0.005
8/11/2020	0.0698	0.581					
8/12/2020			0.0485			<0.005	<0.005
8/17/2020				0.00768			
8/18/2020					<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:54 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.005					0.00668	
4/12/2016	<0.005					0.00827	
6/1/2016	<0.005					0.00768	
8/15/2016						0.00798	
8/16/2016					0.00199 (J)		<0.005
8/17/2016	<0.005	0.0017 (J)	<0.005	<0.005			
9/20/2016		0.00283 (J)	<0.005	<0.005	0.00155 (J)		<0.005
10/11/2016	<0.005				0.00231 (J)	0.008	<0.005
10/12/2016		0.00218 (J)	<0.005	<0.005			
11/15/2016		0.00124 (J)	<0.005	<0.005	0.0044 (J)		<0.005
1/4/2017		0.0028 (J)	<0.005	<0.005	0.00123 (J)		<0.005
1/23/2017		0.00257 (J)	<0.005				<0.005
1/24/2017	<0.005			<0.005		0.00722	
1/26/2017					0.00169 (J)		
5/9/2017	<0.005	0.00138 (J)	<0.005	<0.005	<0.005	0.00766	<0.005
6/27/2017		<0.005	<0.005	<0.005	<0.005		<0.005
6/28/2017	<0.005					0.00745	
2/27/2018		<0.005	<0.005	<0.005	<0.005	0.00699	<0.005
2/28/2018	<0.005						
6/4/2018						0.00731	
6/5/2018		<0.005	<0.005	<0.005	<0.005		<0.005
6/6/2018	<0.005						
11/6/2018	<0.005	<0.005	<0.005	<0.005	<0.005	0.00685	<0.005
3/26/2019		<0.005	<0.005	<0.005	<0.005		<0.005
3/27/2019	<0.005					0.00596	
9/9/2019						0.00806	
9/10/2019	<0.005						
9/11/2019		<0.005	<0.005	<0.005	<0.005		<0.005
4/20/2020						0.00751	
4/21/2020		<0.005	<0.005	<0.005	<0.005		<0.005
4/22/2020	<0.005						
8/11/2020	<0.005						
8/17/2020						0.00909	
8/18/2020		<0.005	<0.005	<0.005	<0.005		<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:54 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	0.00185 (J)	<0.005	0.00122 (J)				
9/19/2016	0.00121 (J)	<0.005	<0.005				
10/11/2016	0.00111 (J)	<0.005	<0.005				
11/14/2016	<0.005	<0.005	<0.005				
1/3/2017	<0.005	<0.005	<0.005				
1/24/2017	<0.005	<0.005					
1/25/2017			<0.005				
5/10/2017	<0.005	<0.005	<0.005				
6/27/2017	<0.005	<0.005	<0.005				
2/27/2018	<0.005	<0.005	<0.005				
6/5/2018	<0.005	<0.005	<0.005				
11/5/2018		<0.005					
11/6/2018	<0.005		<0.005				
1/15/2019							<0.005
1/16/2019					<0.005		
1/17/2019				<0.005			
1/30/2019						0.0034 (J)	
3/27/2019	<0.005	<0.005	<0.005				
9/10/2019				<0.005			
9/11/2019	<0.005	<0.005	<0.005		<0.005	0.00222 (J)	
4/21/2020					<0.005		
4/22/2020	<0.005	<0.005	<0.005	<0.005		0.00168 (J)	0.00768
8/11/2020	<0.005					0.00223 (J)	
8/12/2020		<0.005	<0.005	<0.005			
8/18/2020					<0.005		
8/19/2020							0.00618

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:54 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	<0.005						
1/15/2019		0.0514	<0.005	0.002 (J)	0.00372 (J)		
1/16/2019						0.00816	<0.005
9/10/2019			<0.005				
9/11/2019	<0.005	0.053		0.00208 (J)	0.00583	0.0124	0.00269 (J)
4/20/2020			<0.005				0.00215 (J)
4/21/2020					0.00417 (J)	0.0101	
4/22/2020	<0.005	0.0533					
4/29/2020				0.00182 (J)			
8/11/2020		0.0635					
8/12/2020			<0.005				0.00197 (J)
8/18/2020				0.00171 (J)			
8/19/2020	<0.005				0.00445 (J)	0.0103	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:54 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	0.00153 (J)				0.0806	0.41	0.0375
4/21/2020		0.0021 (J)	<0.005	0.42			
8/11/2020					0.0869		
8/12/2020				0.415		0.467	0.0467
8/17/2020	<0.005	<0.005					
8/19/2020			<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:54 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.005	0.00507			
2/17/2016	<0.005	<0.005					
4/12/2016	<0.005						
4/13/2016		<0.005	<0.005	0.00556			
5/31/2016	<0.005	<0.005					
6/1/2016			<0.005	0.00625			
8/17/2016	<0.005	<0.005	<0.005	0.00648			
10/11/2016	<0.005						
10/12/2016		<0.005	<0.005	0.00772			
1/24/2017	<0.005						
1/25/2017		<0.005	<0.005	0.00728			
5/10/2017	<0.005	<0.005	<0.005	0.00818			
6/28/2017	<0.005	<0.005	<0.005	0.00718			
2/27/2018	<0.005	<0.005	<0.005	0.00946			
6/5/2018	<0.005	<0.005	<0.005	0.00921			
11/7/2018	<0.005	<0.005	<0.005	0.0098			
3/26/2019	<0.005	<0.005	<0.005	0.00969			
9/10/2019	<0.005	<0.005	<0.005	0.0108	0.00176 (J)		
4/20/2020					0.0029 (J)		
4/21/2020	<0.005	<0.005	<0.005	0.0102			
7/6/2020						<0.005	<0.005
8/11/2020						<0.005	<0.005
8/17/2020					0.00191 (J)		
8/18/2020				0.0108			
8/19/2020	<0.005	<0.005	<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.005	<0.005	0.00208 (J)	<0.005
8/11/2020	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		0.179		0.0231	0.113	0.0447	
2/17/2016	0.0364		0.105				0.022
4/12/2016					0.0912	0.043	0.0242
4/13/2016	0.0344	0.185	0.106	0.02			
5/31/2016		0.158	0.0907	0.0175	0.0963	0.0383	0.0224
6/1/2016	0.0353						
8/15/2016	0.0395						
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	
1/24/2017	0.0428						0.0223
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
6/27/2017	0.0348						0.0223
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
6/4/2018	0.0314						
6/5/2018		0.173	0.0643				0.0269
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
11/7/2018		0.171				0.0575	
3/26/2019				0.0218	0.109		0.0282
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
9/11/2019					0.275		
4/20/2020					0.104		0.0338
4/21/2020	0.0206			0.0325		0.102	
4/22/2020		0.186	0.0967				
8/11/2020						0.0806	
8/12/2020							0.0352
8/17/2020	0.0218						
8/18/2020		0.223	0.0866	0.021	0.199		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					0.0379		
2/17/2016	0.0368	0.0402	0.12	0.0311		0.0285	0.0305
4/12/2016			0.131			0.035	0.0312
4/13/2016	0.044	0.0637		0.0334	0.0291		
6/1/2016	0.0357	0.0786	0.114	0.029	0.0254	0.0328	0.0298
8/15/2016	0.0377	0.0634	0.113	0.0317			
8/16/2016					0.0385	0.033	0.0308
10/11/2016				0.0339		0.0352	0.042
10/12/2016	0.0431	0.0995	0.126		0.0486		
1/24/2017	0.0418	0.117	0.126	0.0276		0.0286	0.0446
1/25/2017					0.0371		
5/9/2017				0.0285	0.0454	0.0257	
5/10/2017	0.0449	0.158	0.138				0.0568
6/27/2017	0.042	0.139	0.12			0.0246	
6/28/2017				0.0273	0.0352		0.0663
2/27/2018				0.0292		0.0287	0.101
2/28/2018	0.0595	0.199	0.143		0.0376		
6/4/2018				0.0298			
6/5/2018	0.0471	0.149	0.128			0.0279	0.108
6/6/2018					0.0355		
11/5/2018					0.0509		
11/6/2018	0.0574	0.202	0.109	0.0286			
11/7/2018						0.0281	0.1
3/26/2019	0.0626	0.242	0.117		0.047	0.0295	0.0978
3/27/2019				0.0311			
9/9/2019		0.319	0.101	0.035			
9/10/2019	0.0754				0.0568	0.0338	0.0967
4/20/2020	0.0921						
4/21/2020		0.306	0.0926	0.0335	0.0763	0.0296	
4/22/2020							0.0738
8/11/2020	0.0948	0.29					
8/12/2020			0.0815			0.0311	0.0788
8/17/2020				0.0376			
8/18/2020					0.0517		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	0.0895					0.0896	
4/12/2016	0.0966					0.0994	
6/1/2016	0.0872					0.104	
8/15/2016						0.102	
8/16/2016					0.0527		0.0376
8/17/2016	0.0875	0.0476	0.0803	0.336			
9/20/2016		0.0436	0.0679	0.341	0.0698		0.0348
10/11/2016	0.1				0.0799	0.11	0.0396
10/12/2016		0.0397	0.0644	0.347			
11/15/2016		0.0369	0.0628	0.332	0.0479		0.0359
1/4/2017		0.0518	0.0477	0.299	0.0513		0.0238
1/23/2017		0.0662	0.0482				0.029
1/24/2017	0.0856			0.264		0.0942	
1/26/2017					0.0674		
5/9/2017	0.093	0.0691	0.0611	0.322	0.0836	0.105	0.0409
6/27/2017		0.0603	0.0492	0.278	0.0661		0.0303
6/28/2017	0.0829					0.104	
2/27/2018		0.0386	0.0463	0.312	0.05	0.0989	0.0383
2/28/2018	0.0958						
6/4/2018						0.0936	
6/5/2018		0.0356	0.0298	0.243	0.0433		0.0633
6/6/2018	0.0892						
11/6/2018	0.0807	0.0387	0.0582	0.249	0.0379	0.0936	0.0463
3/26/2019		0.0419	0.0499	0.232	0.0348		0.101
3/27/2019	0.0901					0.0951	
9/9/2019						0.111	
9/10/2019	0.101						
9/11/2019		0.0468	0.0574	0.246	0.0404		0.0855
4/20/2020						0.109	
4/21/2020		0.0439	0.0827	0.219	0.0542		0.0485
4/22/2020	0.11						
8/11/2020	0.111						
8/17/2020						0.139	
8/18/2020		0.0409	0.0734	0.211	0.0442		0.0529

Time Series

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	0.0226	0.0134	0.0304				
9/19/2016	0.0202	0.0125	0.0215				
10/11/2016	0.0219	0.0128	0.0236				
11/14/2016	0.0215	0.0129	0.0206				
1/3/2017	0.019	0.0116	0.0409				
1/24/2017	0.0167	0.0118					
1/25/2017			0.0455				
5/10/2017	0.0246	0.0142	0.0798				
6/27/2017	0.0238	0.0127	0.0679				
2/27/2018	0.0231	0.0135	0.0856				
6/5/2018	0.0228	0.0126	0.0875				
11/5/2018		0.0123					
11/6/2018	0.0211		0.0726				
1/15/2019							0.0454
1/16/2019					0.0492		
1/17/2019				0.0714			
1/30/2019						0.00776 (J)	
3/27/2019	0.025	0.0134	0.0912				
9/10/2019				0.0554			
9/11/2019	0.0267	0.0147	0.0824		0.0369	0.00323 (J)	
4/21/2020					0.0473		
4/22/2020	0.0285	0.0133	0.102	0.0578		0.0027 (J)	0.0248
8/11/2020	0.0264					0.00393 (J)	
8/12/2020		0.0127	0.0601	0.0467			
8/18/2020					0.033		
8/19/2020							0.0591

Time Series

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	0.0814						
1/15/2019		0.185	0.0361	0.13	0.162		
1/16/2019						0.12	0.131
9/10/2019			0.0294				
9/11/2019	0.0581	0.173		0.1	0.123	0.127	0.0797
4/20/2020			0.0282				0.0594
4/21/2020					0.108	0.156	
4/22/2020	0.0607	0.192					
4/29/2020				0.0998			
8/11/2020		0.177					
8/12/2020			0.0295				0.0589
8/18/2020				0.0879			
8/19/2020	0.0678				0.119	0.168	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	0.0898				0.278	0.259	0.0771
4/21/2020		0.028	0.0437	0.138			
8/11/2020					0.246		
8/12/2020				0.134		0.221	0.0796
8/17/2020	0.0632	0.027					
8/19/2020			0.0394				

Time Series

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			0.117	0.0637			
2/17/2016	0.0455	0.0772					
4/12/2016	0.0455						
4/13/2016		0.0886	0.113	0.0552			
5/31/2016	0.0407	0.0823					
6/1/2016			0.105	0.0555			
8/17/2016	0.0434	0.0789	0.105	0.0745			
10/11/2016	0.0514						
10/12/2016		0.0883	0.111	0.0897			
1/24/2017	0.0476						
1/25/2017		0.067	0.0963	0.0864			
5/10/2017	0.0543	0.0644	0.103	0.105			
6/28/2017	0.0402	0.0582	0.0935	0.0897			
2/27/2018	0.0463	0.0669	0.0808	0.118			
6/5/2018	0.051	0.0672	0.0789	0.111			
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	0.0787		
4/20/2020					0.0801		
4/21/2020	0.0728	0.0762	0.116	0.175			
7/6/2020						0.129	0.0613
8/11/2020						0.116	0.0653
8/17/2020					0.0718		
8/18/2020				0.165			
8/19/2020	0.0784	0.0816	0.119				

Time Series

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	0.0701	0.0267	0.127	0.0389
8/11/2020	0.064	0.0204	0.0909	0.0337

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		<0.003		<0.003	<0.003	<0.003	
2/17/2016	<0.003		<0.003				<0.003
4/12/2016					<0.003	<0.003	<0.003
4/13/2016	<0.003	<0.003	<0.003	<0.003			
5/31/2016		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/1/2016	<0.003						
8/15/2016	<0.003						
8/16/2016		<0.003	<0.003	<0.003	<0.003		<0.003
8/17/2016						<0.003	
10/11/2016	<0.003						<0.003
10/12/2016		<0.003	<0.003	<0.003	<0.003	<0.003	
1/24/2017	<0.003						<0.003
1/25/2017		<0.003	<0.003	<0.003	<0.003	<0.003	
5/9/2017	<0.003		<0.003	<0.003	<0.003	<0.003	
5/10/2017		<0.003					<0.003
6/27/2017	<0.003						<0.003
6/28/2017		<0.003	<0.003	<0.003	<0.003	<0.003	
2/27/2018	<0.003	<0.003	<0.003			<0.003	
2/28/2018				<0.003	<0.003		<0.003
6/4/2018	<0.003						
6/5/2018		<0.003	<0.003				<0.003
6/6/2018				<0.003	<0.003	<0.003	
11/5/2018			<0.003	<0.003	<0.003		
11/6/2018	<0.003						<0.003
11/7/2018		<0.003				<0.003	
3/26/2019				<0.003	<0.003		<0.003
3/27/2019	<0.003	<0.003	<0.003			<0.003	
9/10/2019	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
9/11/2019					<0.003		
4/20/2020					<0.003		<0.003
4/21/2020	<0.003			<0.003		<0.003	
4/22/2020		<0.003	<0.003				
8/11/2020						<0.003	
8/12/2020							<0.003
8/17/2020	<0.003						
8/18/2020		<0.003	<0.003	<0.003	<0.003		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<0.003		
2/17/2016	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
4/12/2016			<0.003			<0.003	<0.003
4/13/2016	<0.003	<0.003		<0.003	<0.003		
6/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/15/2016	<0.003	<0.003	<0.003	<0.003			
8/16/2016					<0.003	<0.003	<0.003
10/11/2016				<0.003		<0.003	<0.003
10/12/2016	<0.003	<0.003	<0.003		<0.003		
1/24/2017	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
1/25/2017					<0.003		
5/9/2017				<0.003	<0.003	<0.003	
5/10/2017	<0.003	<0.003	<0.003				<0.003
6/27/2017	<0.003	<0.003	<0.003			<0.003	
6/28/2017				<0.003	<0.003		<0.003
2/27/2018				<0.003		<0.003	<0.003
2/28/2018	<0.003	<0.003	<0.003		<0.003		
6/4/2018				<0.003			
6/5/2018	<0.003	<0.003	<0.003			<0.003	<0.003
6/6/2018					<0.003		
11/5/2018					<0.003		
11/6/2018	<0.003	<0.003	<0.003	<0.003			
11/7/2018						<0.003	<0.003
3/26/2019	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003
3/27/2019				<0.003			
9/9/2019		<0.003	<0.003	<0.003			
9/10/2019	<0.003				<0.003	<0.003	<0.003
4/20/2020	<0.003						
4/21/2020		<0.003	<0.003	<0.003	<0.003	<0.003	
4/22/2020							<0.003
8/11/2020	<0.003	<0.003					
8/12/2020			<0.003			<0.003	<0.003
8/17/2020				<0.003			
8/18/2020					<0.003		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.003					<0.003	
4/12/2016	<0.003					<0.003	
6/1/2016	<0.003					<0.003	
8/15/2016						<0.003	
8/16/2016					<0.003		<0.003
8/17/2016	<0.003	0.00161 (J)	<0.003	<0.003			
9/20/2016		0.00155 (J)	<0.003	<0.003	<0.003		<0.003
10/11/2016	0.000715 (J)				<0.003	<0.003	<0.003
10/12/2016		0.00138 (J)	<0.003	<0.003			
11/15/2016		0.00109 (J)	<0.003	<0.003	<0.003		<0.003
1/4/2017		0.00141 (J)	<0.003	<0.003	<0.003		<0.003
1/23/2017		0.00171 (J)	<0.003				<0.003
1/24/2017	<0.003			<0.003		<0.003	
1/26/2017					<0.003		
5/9/2017	<0.003	0.00226 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
6/27/2017		0.0017 (J)	<0.003	<0.003	<0.003		<0.003
6/28/2017	<0.003					<0.003	
2/27/2018		0.00147 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
2/28/2018	<0.003						
6/4/2018						<0.003	
6/5/2018		0.000821 (J)	<0.003	<0.003	<0.003		<0.003
6/6/2018	<0.003						
11/6/2018	<0.003	0.000757 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
3/26/2019		0.00092 (J)	<0.003	<0.003	<0.003		<0.003
3/27/2019	<0.003					<0.003	
9/9/2019						<0.003	
9/10/2019	<0.003						
9/11/2019		<0.003	<0.003	<0.003	<0.003		<0.003
4/20/2020						<0.003	
4/21/2020		0.000756 (J)	<0.003	<0.003	<0.003		<0.003
4/22/2020	<0.003						
8/11/2020	<0.003						
8/17/2020						<0.003	
8/18/2020		0.000828 (J)	<0.003	<0.003	<0.003		<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.003	<0.003	<0.003				
9/19/2016	<0.003	<0.003	<0.003				
10/11/2016	<0.003	<0.003	<0.003				
11/14/2016	<0.003	<0.003	<0.003				
1/3/2017	<0.003	<0.003	<0.003				
1/24/2017	<0.003	<0.003					
1/25/2017			<0.003				
5/10/2017	<0.003	<0.003	<0.003				
6/27/2017	<0.003	<0.003	<0.003				
2/27/2018	<0.003	<0.003	<0.003				
6/5/2018	<0.003	<0.003	<0.003				
11/5/2018		<0.003					
11/6/2018	<0.003		<0.003				
1/15/2019							<0.003
1/16/2019					<0.003		
1/17/2019				<0.003			
1/30/2019						<0.003	
3/27/2019	<0.003	<0.003	<0.003				
9/10/2019				<0.003			
9/11/2019	<0.003	<0.003	<0.003		<0.003	<0.003	
4/21/2020					<0.003		
4/22/2020	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
8/11/2020	<0.003					<0.003	
8/12/2020		<0.003	<0.003	<0.003			
8/18/2020					<0.003		
8/19/2020							<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	<0.003						
1/15/2019		<0.003	<0.003	<0.003	<0.003		
1/16/2019						<0.003	<0.003
9/10/2019			<0.003				
9/11/2019	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003
4/20/2020			<0.003				<0.003
4/21/2020					<0.003	<0.003	
4/22/2020	<0.003	<0.003					
4/29/2020				<0.003			
8/11/2020		<0.003					
8/12/2020			<0.003				<0.003
8/18/2020				<0.003			
8/19/2020	<0.003				<0.003	<0.003	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
2/17/2016				<0.003			
4/12/2016				<0.003			
5/31/2016				<0.003			
8/17/2016				<0.003			
10/11/2016				<0.003			
1/24/2017				<0.003			
5/9/2017				<0.003			
6/28/2017				<0.003			
2/27/2018				<0.003			
6/5/2018				<0.003			
11/6/2018				<0.003			
3/27/2019				<0.003			
9/11/2019				<0.003			
4/20/2020	<0.003				<0.003	<0.003	<0.003
4/21/2020		<0.003	<0.003	<0.003			
8/11/2020					<0.003		
8/12/2020				<0.003		<0.003	<0.003
8/17/2020	<0.003	<0.003					
8/19/2020			<0.003				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.003	<0.003			
2/17/2016	<0.003	<0.003					
4/12/2016	<0.003						
4/13/2016		<0.003	<0.003	<0.003			
5/31/2016	<0.003	<0.003					
6/1/2016			<0.003	<0.003			
8/17/2016	<0.003	<0.003	<0.003	<0.003			
10/11/2016	<0.003						
10/12/2016		<0.003	<0.003	<0.003			
1/24/2017	<0.003						
1/25/2017		<0.003	<0.003	<0.003			
5/10/2017	<0.003	<0.003	<0.003	<0.003			
6/28/2017	<0.003	<0.003	<0.003	<0.003			
2/27/2018	<0.003	<0.003	<0.003	<0.003			
6/5/2018	<0.003	<0.003	<0.003	<0.003			
11/7/2018	<0.003	<0.003	<0.003	<0.003			
3/26/2019	<0.003	<0.003	<0.003	<0.003			
9/10/2019	<0.003	<0.003	<0.003	<0.003	<0.003		
4/20/2020					<0.003		
4/21/2020	<0.003	<0.003	<0.003	<0.003			
7/6/2020						<0.003	<0.003
8/11/2020						<0.003	<0.003
8/17/2020					<0.003		
8/18/2020				<0.003			
8/19/2020	<0.003	<0.003	<0.003				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.003	<0.003	0.000799 (J)	<0.003
8/11/2020	<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Boron (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		1.44		0.273	0.26	0.739	
2/17/2016	0.219		0.581				0.454
4/12/2016					0.26	0.733	0.444
4/13/2016	0.211	0.373	0.61	0.276			
5/31/2016		1.26	0.615	0.291	0.318	0.603	0.424
6/1/2016	0.2						
8/15/2016	0.211						
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	
1/24/2017	0.218						0.458
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
6/27/2017	0.206						0.454
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
6/4/2018	0.242						
6/5/2018		1.31	0.311				0.543
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
11/7/2018		1.26				0.908	
3/26/2019				0.111	0.213		0.697
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
9/11/2019					0.535		
4/20/2020					0.642		0.791
4/21/2020	0.347			0.872		1.55	
4/22/2020		1.23	0.447				
8/11/2020						1.44	
8/12/2020							0.813
8/17/2020	0.496						
8/18/2020		1.37	0.358	0.748	0.501		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					0.286		
2/17/2016	1.47	1.66	1.94	0.146		0.0271 (J)	<0.1
4/12/2016			2.03			<0.1	<0.1
4/13/2016	1.48	1.64		0.125	0.26		
6/1/2016	1.22	1.66	1.74	0.114	0.283	<0.1	<0.1
8/15/2016	1.31	1.83	1.66	0.128			
8/16/2016					0.292	<0.1	<0.1
10/11/2016				0.129		0.024 (J)	<0.1
10/12/2016	1.37	2.12	1.77		0.254		
1/24/2017	1.38	1.94	1.49	0.124		0.0333 (J)	<0.1
1/25/2017					0.133		
5/9/2017				0.121	0.304	<0.1	
5/10/2017	1.41	1.99	1.65				<0.1
6/27/2017	1.43	2.18	1.66			<0.1	
6/28/2017				0.111	0.243		<0.1
8/29/2017					0.249	<0.1	<0.1
8/30/2017	1.36	1.71	1.53	0.0915 (J)			
6/4/2018				0.134			
6/5/2018	1.36	1.76	1.36			<0.1	<0.1
6/6/2018					0.245		
11/5/2018					0.151		
11/6/2018	1.47	1.74	1.48	0.131			
11/7/2018						<0.1	<0.1
3/26/2019	1.38	1.74	1.63		0.0834 (J)	<0.1	<0.1
3/27/2019				0.138			
9/9/2019		2.33	1.73	0.157			
9/10/2019	1.69				0.16	<0.1	<0.1
4/20/2020	1.83						
4/21/2020		1.97	1.51	0.14	0.586	<0.1	
4/22/2020							<0.1
8/11/2020	1.93	2.03					
8/12/2020			1.53			<0.1	<0.1
8/17/2020				0.152			
8/18/2020					0.211		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	0.0922 (J)					0.0288 (J)	
4/12/2016	0.0935 (J)					0.0293 (J)	
6/1/2016	0.0826 (J)					0.0279 (J)	
8/15/2016						0.0332 (J)	
8/16/2016					<0.1		<0.1
8/17/2016	0.092 (J)	<0.1	<0.1	<0.1			
9/20/2016		<0.1	<0.1	<0.1	<0.1		<0.1
10/11/2016	0.0976 (J)				<0.1	0.0328 (J)	<0.1
10/12/2016		<0.1	0.02 (J)	<0.1			
11/15/2016		<0.1	<0.1	<0.1	0.0229 (J)		<0.1
1/4/2017		<0.1	<0.1	<0.1	<0.1		<0.1
1/23/2017		0.0217 (J)	0.0287 (J)				<0.1
1/24/2017	0.0877 (J)			0.0331 (J)		0.0262 (J)	
1/26/2017					<0.1		
5/9/2017	0.0953 (J)	<0.1	<0.1	<0.1	<0.1	0.0298 (J)	<0.1
6/27/2017		<0.1	<0.1	<0.1	<0.1		<0.1
6/28/2017	0.0835 (J)					0.0226 (J)	
8/29/2017	0.0914 (J)	<0.1	<0.1				
8/30/2017				<0.1	<0.1	<0.1	<0.1
6/4/2018						0.0296 (J)	
6/5/2018		<0.1	<0.1	<0.1	<0.1		<0.1
6/6/2018	0.102						
11/6/2018	0.0995 (J)	<0.1	<0.1	<0.1	<0.1	0.0268 (J)	<0.1
3/26/2019		<0.1	<0.1	<0.1	<0.1		<0.1
3/27/2019	0.113					0.0316 (J)	
9/9/2019						0.035 (J)	
9/10/2019	0.105						
9/11/2019		<0.1	<0.1	<0.1	<0.1		<0.1
4/20/2020						<0.1	
4/21/2020		<0.1	<0.1	<0.1	<0.1		<0.1
4/22/2020	0.104						
8/11/2020	0.11						
8/17/2020						0.0636 (J)	
8/18/2020		<0.1	<0.1	<0.1	<0.1		<0.1

Time Series

Constituent: Boron (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.1	<0.1	0.0268 (J)				
9/19/2016	<0.1	<0.1	0.0225 (J)				
10/11/2016	<0.1	<0.1	0.0304 (J)				
11/14/2016	<0.1	<0.1	0.0355 (J)				
1/3/2017	<0.1	<0.1	0.0304 (J)				
1/24/2017	0.0282 (J)	<0.1					
1/25/2017			<0.1				
5/10/2017	<0.1	<0.1	<0.1				
6/27/2017	<0.1	<0.1	<0.1				
8/30/2017	<0.1	<0.1	<0.1				
6/5/2018	<0.1	<0.1	<0.1				
11/5/2018		<0.1					
11/6/2018	<0.1		<0.1				
1/15/2019							0.224
1/16/2019					0.0284 (J)		
1/17/2019				<0.1			
1/30/2019						0.164	
3/27/2019	<0.1	<0.1	<0.1				
9/10/2019				<0.1			
9/11/2019	<0.1	<0.1	<0.1		<0.1	0.147	
4/21/2020					<0.1		
4/22/2020	<0.1	<0.1	<0.1	<0.1		0.143	0.186
8/11/2020	<0.1					0.145	
8/12/2020		<0.1	<0.1	<0.1			
8/18/2020					<0.1		
8/19/2020							0.229

Time Series

Constituent: Boron (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	0.148						
1/15/2019		1.68	0.702	0.762	1.73		
1/16/2019						0.835	0.173
9/10/2019			0.734				
9/11/2019	0.175	1.67		0.758	1.88	1.07	0.199
4/20/2020			0.821				0.2
4/21/2020					1.76	1.08	
4/22/2020	0.118	1.89					
4/29/2020				0.699			
8/11/2020		1.84					
8/12/2020			0.807				0.197
8/18/2020				0.689			
8/19/2020	0.135				1.26	1.15	

Time Series

Constituent: Boron (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	0.426				0.309	0.626	0.252
4/21/2020		0.172	0.272	0.72			
8/11/2020					0.493		
8/12/2020				0.695		0.76	0.338
8/17/2020	0.57	0.218					
8/19/2020			0.213				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			1.54	0.412			
2/17/2016	2.12	0.503					
4/12/2016	2.06						
4/13/2016		0.478	1.56	0.376			
5/31/2016	1.97	0.452					
6/1/2016			1.49	0.338			
8/17/2016	2.01	0.492	1.57	0.412			
10/11/2016	1.91						
10/12/2016		0.487	1.65	0.46			
1/24/2017	1.62						
1/25/2017		0.529	1.89	0.586			
5/10/2017	1.62	0.533	1.94	0.661			
6/28/2017	1.71	0.501	1.72	0.673			
8/29/2017	1.7	0.51	1.63	0.723			
6/5/2018	1.56	0.605	1.73	0.954			
11/7/2018	1.6	0.677	1.8	1.11			
3/26/2019	1.63	0.727	1.81	1.14			
9/10/2019	1.83	0.764	1.82	1.23	0.293		
4/20/2020					0.308		
4/21/2020	1.77	0.793	1.89	1.27			
7/6/2020						1.2	0.274
8/11/2020						1.25	0.252
8/17/2020					0.344		
8/18/2020				1.24			
8/19/2020	1.86	0.561	1.94				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	0.343	0.143	0.208	0.0435 (J)
8/11/2020	0.329	0.0903 (J)	0.209	0.0406 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		<0.001		<0.001	<0.001	<0.001	
2/17/2016	<0.001		<0.001				<0.001
4/12/2016					<0.001	<0.001	<0.001
4/13/2016	<0.001	<0.001	<0.001	<0.001			
5/31/2016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/1/2016	<0.001						
8/15/2016	<0.001						
8/16/2016		<0.001	<0.001	<0.001	<0.001		<0.001
8/17/2016						<0.001	
10/11/2016	<0.001						<0.001
10/12/2016		<0.001	<0.001	<0.001	<0.001	<0.001	
1/24/2017	<0.001						<0.001
1/25/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
5/9/2017	<0.001		<0.001	<0.001	<0.001	<0.001	
5/10/2017		<0.001					<0.001
6/27/2017	<0.001						<0.001
6/28/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
2/27/2018	<0.001	<0.001	<0.001			<0.001	
2/28/2018				<0.001	<0.001		<0.001
6/4/2018	<0.001						
6/5/2018		<0.001	<0.001				<0.001
6/6/2018				<0.001	<0.001	<0.001	
11/5/2018			<0.001	<0.001	<0.001		
11/6/2018	<0.001						<0.001
11/7/2018		<0.001				<0.001	
3/26/2019				<0.001	<0.001		<0.001
3/27/2019	<0.001	<0.001	<0.001			<0.001	
9/10/2019	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
9/11/2019					<0.001		
4/20/2020					<0.001		<0.001
4/21/2020	<0.001			<0.001		<0.001	
4/22/2020		<0.001	<0.001				
8/11/2020						<0.001	
8/12/2020							<0.001
8/17/2020	<0.001						
8/18/2020		<0.001	<0.001	<0.001	<0.001		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<0.001		
2/17/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
4/12/2016			<0.001			<0.001	<0.001
4/13/2016	<0.001	<0.001		<0.001	<0.001		
6/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/15/2016	<0.001	<0.001	<0.001	<0.001			
8/16/2016					<0.001	<0.001	<0.001
10/11/2016				<0.001		<0.001	<0.001
10/12/2016	<0.001	<0.001	<0.001		<0.001		
1/24/2017	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
1/25/2017					<0.001		
5/9/2017				<0.001	<0.001	<0.001	
5/10/2017	<0.001	<0.001	<0.001				<0.001
6/27/2017	<0.001	<0.001	<0.001			<0.001	
6/28/2017				<0.001	<0.001		<0.001
2/27/2018				<0.001		<0.001	<0.001
2/28/2018	<0.001	<0.001	<0.001		<0.001		
6/4/2018				<0.001			
6/5/2018	<0.001	<0.001	<0.001			<0.001	<0.001
6/6/2018					<0.001		
11/5/2018					<0.001		
11/6/2018	<0.001	<0.001	<0.001	<0.001			
11/7/2018						<0.001	<0.001
3/26/2019	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
3/27/2019				<0.001			
9/9/2019		<0.001	<0.001	<0.001			
9/10/2019	<0.001				<0.001	<0.001	<0.001
4/20/2020	<0.001						
4/21/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
4/22/2020							<0.001
8/11/2020	<0.001	<0.001					
8/12/2020			<0.001			<0.001	<0.001
8/17/2020				<0.001			
8/18/2020					<0.001		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.001					<0.001	
4/12/2016	<0.001					<0.001	
6/1/2016	<0.001					<0.001	
8/15/2016						<0.001	
8/16/2016					<0.001		<0.001
8/17/2016	<0.001	<0.001	0.000211 (J)	0.000742 (J)			
9/20/2016		<0.001	<0.001	0.000857 (J)	<0.001		<0.001
10/11/2016	<0.001				<0.001	<0.001	<0.001
10/12/2016		<0.001	<0.001	0.000912 (J)			
11/15/2016		<0.001	0.000216 (J)	0.000821 (J)	<0.001		<0.001
1/4/2017		<0.001	<0.001	0.000718 (J)	<0.001		<0.001
1/23/2017		<0.001	0.000231 (J)				<0.001
1/24/2017	<0.001			0.000716 (J)		<0.001	
1/26/2017					0.000228 (J)		
5/9/2017	<0.001	0.000706 (J)	<0.001	0.000746 (J)	0.000277 (J)	<0.001	<0.001
6/27/2017		0.000429 (J)	<0.001	0.00065 (J)	<0.001		<0.001
6/28/2017	<0.001					<0.001	
2/27/2018		<0.001	<0.001	0.000752 (J)	<0.001	<0.001	<0.001
2/28/2018	<0.001						
6/4/2018						<0.001	
6/5/2018		<0.001	<0.001	0.000731 (J)	<0.001		<0.001
6/6/2018	<0.001						
11/6/2018	<0.001	<0.001	<0.001	0.000646 (J)	<0.001	<0.001	<0.001
3/26/2019		<0.001	<0.001	0.000582 (J)	<0.001		<0.001
3/27/2019	<0.001					<0.001	
9/9/2019						<0.001	
9/10/2019	<0.001						
9/11/2019		<0.001	<0.001	0.000573 (J)	<0.001		<0.001
4/20/2020						<0.001	
4/21/2020		<0.001	<0.001	0.00052 (J)	<0.001		<0.001
4/22/2020	<0.001						
8/11/2020	<0.001						
8/17/2020						<0.001	
8/18/2020		<0.001	<0.001	0.000476 (J)	<0.001		<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.001	<0.001	<0.001				
9/19/2016	<0.001	<0.001	<0.001				
10/11/2016	<0.001	<0.001	<0.001				
11/14/2016	<0.001	<0.001	<0.001				
1/3/2017	<0.001	<0.001	<0.001				
1/24/2017	<0.001	<0.001					
1/25/2017			<0.001				
5/10/2017	<0.001	<0.001	<0.001				
6/27/2017	<0.001	<0.001	<0.001				
2/27/2018	<0.001	<0.001	<0.001				
6/5/2018	<0.001	<0.001	<0.001				
11/5/2018		<0.001					
11/6/2018	<0.001		<0.001				
1/15/2019							<0.001
1/16/2019					<0.001		
1/17/2019				<0.001			
1/30/2019						<0.001	
3/27/2019	<0.001	<0.001	<0.001				
9/10/2019				<0.001			
9/11/2019	<0.001	<0.001	<0.001		<0.001	<0.001	
4/21/2020					<0.001		
4/22/2020	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
8/11/2020	<0.001					<0.001	
8/12/2020		<0.001	<0.001	<0.001			
8/18/2020					<0.001		
8/19/2020							<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	<0.001						
1/15/2019		<0.001	<0.001	<0.001	<0.001		
1/16/2019						<0.001	<0.001
9/10/2019			<0.001				
9/11/2019	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
4/20/2020			<0.001				<0.001
4/21/2020					<0.001	<0.001	
4/22/2020	<0.001	<0.001					
4/29/2020				<0.001			
8/11/2020		<0.001					
8/12/2020			<0.001				<0.001
8/18/2020				<0.001			
8/19/2020	<0.001				<0.001	<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
2/17/2016				<0.001			
4/12/2016				<0.001			
5/31/2016				<0.001			
8/17/2016				<0.001			
10/11/2016				<0.001			
1/24/2017				<0.001			
5/9/2017				<0.001			
6/28/2017				<0.001			
2/27/2018				<0.001			
6/5/2018				<0.001			
11/6/2018				<0.001			
3/27/2019				<0.001			
9/11/2019				<0.001			
4/20/2020	<0.001				<0.001	<0.001	<0.001
4/21/2020		<0.001	<0.001	<0.001			
8/11/2020					<0.001		
8/12/2020				<0.001		<0.001	<0.001
8/17/2020	<0.001	<0.001					
8/19/2020			0.000334 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.001	<0.001			
2/17/2016	<0.001	<0.001					
4/12/2016	<0.001						
4/13/2016		<0.001	<0.001	<0.001			
5/31/2016	<0.001	<0.001					
6/1/2016			<0.001	<0.001			
8/17/2016	<0.001	<0.001	<0.001	<0.001			
10/11/2016	<0.001						
10/12/2016		<0.001	<0.001	<0.001			
1/24/2017	<0.001						
1/25/2017		<0.001	<0.001	<0.001			
5/10/2017	<0.001	<0.001	<0.001	<0.001			
6/28/2017	<0.001	<0.001	<0.001	<0.001			
2/27/2018	<0.001	<0.001	<0.001	<0.001			
6/5/2018	<0.001	<0.001	<0.001	<0.001			
11/7/2018	<0.001	<0.001	<0.001	<0.001			
3/26/2019	<0.001	<0.001	<0.001	<0.001			
9/10/2019	<0.001	<0.001	<0.001	<0.001	<0.001		
4/20/2020					<0.001		
4/21/2020	<0.001	<0.001	<0.001	<0.001			
7/6/2020						0.000366 (J)	<0.001
8/11/2020						0.00042 (J)	<0.001
8/17/2020					<0.001		
8/18/2020				<0.001			
8/19/2020	<0.001	<0.001	<0.001				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.001	<0.001	<0.001	<0.001
8/11/2020	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		76.3		34.6	29.8	44.4	
2/17/2016	204		18.6				47.7
4/12/2016					23.3	43.2	44.4
4/13/2016	152	30.5	17.8	32.2			
5/31/2016		65.9	17.7	28.8	25.9	43	45.3
6/1/2016	183						
8/15/2016	197						
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	
1/24/2017	193						49.4
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
6/27/2017	184						44.9
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
6/4/2018	157						
6/5/2018		65.5	25.7				45.1
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	
11/5/2018			24.1	28.8	29.4		
11/6/2018	186						49.2
11/7/2018		68.5				105	
3/26/2019				33.7	34.1		54
3/27/2019	73.8	71.8	31			162	
9/10/2019	147	69.3	27.7	30.5		125	57.2
9/11/2019					53.9		
4/20/2020					40.3		61
4/21/2020	90.5			51		113	
4/22/2020		62.9	36.7				
8/11/2020						118	
8/12/2020							72.2
8/17/2020	81.5						
8/18/2020		74.4	37.6	42.9	95.3		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					40.4		
2/17/2016	57	30.7	89.6	75		38.7	6.54
4/12/2016			96.2			42.7	6.15
4/13/2016	62.5	39.5		70.2	32.2		
6/1/2016	54.4	47.7	90.2	71.2	29.3	41.8	5.7
8/15/2016	56.2	45.6	84.4	72.2			
8/16/2016					25.4	40.9	6.77
10/11/2016				73.8		38.1	8.84
10/12/2016	56.6	57.6	82.9		30.7		
1/24/2017	59.1	69.4	76.4	72.2		27.7	12.8
1/25/2017					36.8		
5/9/2017				66.4	36.1	29.3	
5/10/2017	62.5	66.2	77.4				12.4
6/27/2017	63.6	63.8	75.4			28.6	
6/28/2017				65.4	26.9		17.9
8/29/2017					29.4	32.3	19
8/30/2017	65.7	75.1	78	67.8			
6/4/2018				68.3			
6/5/2018	66.8	77.4	66.3			34.5	30
6/6/2018					30.2		
9/10/2018				73.9	28.8		
9/11/2018						32	28.7
9/12/2018	76.3	58.9	67.8				
11/5/2018					29.7		
11/6/2018	77.4	81.6	72.7	75.1			
11/7/2018						30.3	30.7
3/26/2019	90	84.7	91.5		32.4	31.3	32.3
3/27/2019				96.1			
9/9/2019		66.4	83.2	111			
9/10/2019	86.3				28.4	30.7	32.8
4/20/2020	90.8						
4/21/2020		74.4	81.8	133	43.1	30.8	
4/22/2020							31.4
8/11/2020	101	73					
8/12/2020			85.9			28	35.8
8/17/2020				156			
8/18/2020					25.5		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	10.2					106	
4/12/2016	10					95.2	
6/1/2016	9.87					86.1	
8/15/2016						89.7	
8/16/2016					2.02		1.24
8/17/2016	8.88	5.88	1.1	7.74			
9/20/2016		5.95	0.771	2.43	1.22		1.11
10/11/2016	9.22				1.48	90.6	1.22
10/12/2016		6.1	0.711	2.46			
11/15/2016		6.28	0.641	2.28	1.36		1.34
1/4/2017		4.97	0.797	2.7	1.11		2.39
1/23/2017		5.17	0.655				1.83
1/24/2017	8.72			4.19		94.2	
1/26/2017					1.03		
5/9/2017	8.56	15.7	0.538	3.28	0.289 (J)	90.3	0.823
6/27/2017		14.2	0.413 (J)	3.76	0.292 (J)		0.956
6/28/2017	7.16					80.7	
8/29/2017	8.32	11.1	0.504				
8/30/2017				2.31	0.336 (J)	84	1.04
6/4/2018						98.8	
6/5/2018		3.93	0.339 (J)	2.76	0.2 (J)		1.18
6/6/2018	9.05						
9/11/2018		3.76	0.776	2.04	0.171 (J)		1.5
9/12/2018	8.98					109	
11/6/2018	9.21	4.81	0.746	2	0.193 (J)	110	1.64
3/26/2019		3.18	0.526	2.13	0.223 (J)		1.33
3/27/2019	9.77					111	
9/9/2019						98.5	
9/10/2019	9.28						
9/11/2019		3.98	0.638	1.98	0.158 (J)		0.925
4/20/2020						91.2	
4/21/2020		3.83	1.15	2.41	0.287 (J)		0.864
4/22/2020	11.3						
8/11/2020	10.7						
8/17/2020						78.9	
8/18/2020		4.58	0.884	2.23	0.231 (J)		0.926

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	39.5	9.33	5.54				
9/19/2016	34.5	9.26	3.01				
10/11/2016	32.4	9.31	2.74				
11/14/2016	26.5	9.17	2.47				
1/3/2017	22.6	9.66	2.94				
1/24/2017	19.5	9.67					
1/25/2017			2.91				
5/10/2017	15.7	9.81	2.27				
6/27/2017	13.8	9.88	2.2				
8/30/2017	11.1	10.3	2.26				
6/5/2018	9.12	11.4	2.97				
9/11/2018	7.5	10.5	2.6				
11/5/2018		10.5					
11/6/2018	7.39		2.42				
1/15/2019							231
1/16/2019					19.6		
1/17/2019				25.3			
1/30/2019						2.85	
3/27/2019	7.65	11.6	2.75				
9/10/2019				12.8			
9/11/2019	6.96	9.95	2.17		22.2	1.16	
4/21/2020					47.3		
4/22/2020	5.92	9.87	3.15	12		0.941	175
8/11/2020	7.46					1.06	
8/12/2020		9.48	1.78	9.68			
8/18/2020					22.9		
8/19/2020							143

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	123						
1/15/2019		97.6	60.7	115	70		
1/16/2019						54.9	174
9/10/2019			97.5				
9/11/2019	84	91.6		72.1	57.2	60.7	179
4/20/2020			88.2				167
4/21/2020					56.5	81.4	
4/22/2020	83.9	102					
4/29/2020				70.8			
8/11/2020		111					
8/12/2020			115				173
8/18/2020				66.7			
8/19/2020	96				59.3	99.7	

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	64.9				93.1	98.8	69.5
4/21/2020		28.9	36.8	93			
8/11/2020					92.8		
8/12/2020				92.2		101	79.1
8/17/2020	57.2	27.6					
8/19/2020			27.4				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			75.9	33.9			
2/17/2016	128	158					
4/12/2016	115						
4/13/2016		151	74.1	32.5			
5/31/2016	118	158					
6/1/2016			76.4	33.9			
8/17/2016	120	152	74.2	50.3			
10/11/2016	119						
10/12/2016		150	75.7	53.3			
1/24/2017	110						
1/25/2017		137	76.1	59.9			
5/10/2017	104	111	78.6	66.5			
6/28/2017	98	108	76.4	69.8			
8/29/2017	108	113	74.1	72			
6/5/2018	121	186	58	95.1			
9/11/2018	119	209	64.9	122			
9/12/2018					172		
11/7/2018	124	175	68.1	107			
3/26/2019	148	193	72	132			
9/10/2019	164	188	91	116	160		
4/20/2020					147		
4/21/2020	142	155	84.8	111			
7/6/2020						75.6	51.1
8/11/2020						73.1	57.8
8/17/2020					153		
8/18/2020				109			
8/19/2020	162	147	98.6				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	40.1	38.6	72.4	2.61
8/11/2020	39.5	15.9	76.7	2.43

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		18.4		10.8	6.52	16.4	
2/17/2016	16		16.6				11.8
4/12/2016					4.47	15.9	12.6
4/13/2016	21.5	19	17	8.2			
5/31/2016		19.2	19	7.74	10.8	13.6	12.9
6/1/2016	52.5						
8/15/2016	33.3						
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	
1/24/2017	18.4						11.2
1/25/2017		18.6	18	24.4	22	16.4	
5/9/2017	30		23	15	10	19	
5/10/2017		22					14
6/27/2017	29						14
6/28/2017		20	24	12	9.4	17	
8/29/2017		20	15	10	9.3	17	
8/30/2017	23						14
6/4/2018	22						
6/5/2018		18	16				13
6/6/2018				11	6.1	14	
9/10/2018	22		13				
9/11/2018		19		12	14		14
9/12/2018						14	
11/5/2018			13	17	18		
11/6/2018	17						14
11/7/2018		19				15	
3/26/2019				14.5	4.7		13
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
9/11/2019					12.3		
4/20/2020					4.7		12
4/21/2020	19.5			9.49		14.8	
4/22/2020		17.6	20.5				
8/11/2020						12.7	
8/12/2020							11.4
8/17/2020	23.2						
8/18/2020		21.3	16.2	6.46	8.24		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					9.95		
2/17/2016	12.5	14.6	22.3	14.7		1.54	3.3
4/12/2016			22.1			1.51	3.25
4/13/2016	13.6	14.9		14.3	7.33		
6/1/2016	14.2	15.9	22	14.6	6.97	1.46	3.55
8/15/2016	13.6	19.5	22.4	14.7			
8/16/2016					12	1.5	3.45
10/11/2016				14.8		1.52	3.78
10/12/2016	13.8	18.5	22.1		15.4		
1/24/2017	14.2	19	23.2	15		1.38	4.61
1/25/2017					24.7		
5/9/2017				16	17	2.4	
5/10/2017	18	24	26				5.9
6/27/2017	17	24	25			2.1	
6/28/2017				15	11		5.7
8/29/2017					12	2.4	6.8
8/30/2017	16	18	25	15			
6/4/2018				16			
6/5/2018	15	15	25			1.7 (J)	7.9
6/6/2018					9.7		
9/10/2018				17	12		
9/11/2018						1.5 (J)	6.1
9/12/2018	17	23	23				
11/5/2018					16		
11/6/2018	15	11	26	17			
11/7/2018						1.4 (J)	5.2
3/26/2019	9.27	9.52	25.4		17.2	1.23	6.92
3/27/2019				14.8			
9/9/2019		15.4	25.6	14			
9/10/2019	12.7				11	1.38	4.39
4/20/2020	12.1						
4/21/2020		11.1	26.3	12.3	10.1	1.08	
4/22/2020							2.75
8/11/2020	12.1	15.4					
8/12/2020			24.5			1.28	4.14
8/17/2020				13.1			
8/18/2020					5.54		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	22.9					25.2	
4/12/2016	22.2					24.6	
6/1/2016	22.3					24.5	
8/15/2016						24.2	
8/16/2016					2.21		2.54
8/17/2016	22.1	2.44	1.78	1.77			
9/20/2016		2.54	1.61	1.56	2.12		2.51
10/11/2016	21.8				2.24	24.4	2.34
10/12/2016		2.67	1.51	1.54			
11/15/2016		2.94	1.5	1.53	6.65		2.1
1/4/2017		2.92	1.53	1.58	2.15		2.44
1/23/2017		3.21	1.62				2.37
1/24/2017	21.8			1.71		24.6	
1/26/2017					2.31		
5/9/2017	23	2.5	2.2	2.1	2.3	27	2.8
6/27/2017		3	1.9 (J)	2	2.1		2.1
6/28/2017	22					26	
8/29/2017	22	3.6	2				
8/30/2017				1.5 (J)	2.8	26	3
6/4/2018						27	
6/5/2018		2.2	1.9 (J)	1.2 (J)	1.8 (J)		2.3
6/6/2018	20						
9/11/2018		1.5 (J)	<2	<2	<2		1.5 (J)
9/12/2018	20					26	
11/6/2018	21	2.5	1.9 (J)	<2	<2	26	1.4 (J)
3/26/2019		2	2.18	1.2	1.07		2.42
3/27/2019	18.4					24.8	
9/9/2019						23.8	
9/10/2019	17.7						
9/11/2019		2.34	1.7	1.26	1.19		3.72
4/20/2020						24.5	
4/21/2020		2.04	1.9	1.32	1.09		3.89
4/22/2020	17.1						
8/11/2020	16.7						
8/17/2020						24.6	
8/18/2020		2.16	1.63	1.38	1.05		3.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	5.32	4.24	4.88				
9/19/2016	5.29	4.13	4.45				
10/11/2016	5.26	4.07	4.36				
11/14/2016	5.28	4.08	4.42				
1/3/2017	5.18	4.06	5.18				
1/24/2017	5.41	4.4					
1/25/2017			5.66				
5/10/2017	5.8	4.4	8				
6/27/2017	5.4	4	7.2				
8/30/2017	6	4.8	6.9				
6/5/2018	5.2	3.8	4.2				
9/11/2018	5.5	4.1	4.2				
11/5/2018		3.9					
11/6/2018	5.1		4.5				
1/15/2019							13.4
1/16/2019					3.1		
1/17/2019				7.87			
1/30/2019						3.04	
3/27/2019	5.26	3.9	4.33				
9/10/2019				5.54			
9/11/2019	5.31	4.21	4.16		1.15	3.95	
4/21/2020					3.62		
4/22/2020	5.37	4	5.66	7.6		4.4	10.3
8/11/2020	5.45					3.28	
8/12/2020		4.17	4.46	2.07			
8/18/2020					1.12		
8/19/2020							13.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	37.9						
1/15/2019		14.3	13	16.6	19.9		
1/16/2019						26.1	12.3
9/10/2019			10.5				
9/11/2019	3.82	14.1		16.5	20.7	31.4	11.8
4/20/2020			10.8				12
4/21/2020					19.9	40.4	
4/22/2020	2.25	12.9					
4/29/2020				16.1			
8/11/2020		7.85					
8/12/2020			8.34				10.8
8/18/2020				15.9			
8/19/2020	3.4				18.2	46.9	

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	10.9				23.9	9.74	7.88
4/21/2020		12.3	11.3	12.3			
8/11/2020					21.2		
8/12/2020				13		10.8	6.3
8/17/2020	8.99	11.9					
8/19/2020			7.53				

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			67.9	15.6			
2/17/2016	31.8	62.7					
4/12/2016	28.9						
4/13/2016		57.8	64.1	14.3			
5/31/2016	28.7	55.6					
6/1/2016			66.3	12.6			
8/17/2016	32.2	53.3	56.7	14.4			
10/11/2016	34.2						
10/12/2016		51.2	56.1	16.4			
1/24/2017	38.1						
1/25/2017		44.8	53.6	20			
5/10/2017	41	44	48	24			
6/28/2017	36	45	49	25			
8/29/2017	35	43	52	25			
6/5/2018	32	49	38	25			
9/11/2018	36	52	37	26			
9/12/2018					12		
11/7/2018	30	58	41	25			
3/26/2019	31.9	71	39.7	25.3			
9/10/2019	27.3	67	56.1	28	10.9		
4/20/2020					9.87		
4/21/2020	37.4	66.2	69.5	24.2			
7/6/2020						103	4.5
8/11/2020						87.4	4.27
8/17/2020					9.78		
8/18/2020				31.4			
8/19/2020	39.6	123	70.5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	13.4	4.92	12.1	6.88
8/11/2020	11.2	3.18	12.1	6.21

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		<0.01		<0.01	<0.01	<0.01	
2/17/2016	<0.01		<0.01				<0.01
4/12/2016					<0.01	<0.01	<0.01
4/13/2016	<0.01	<0.01	<0.01	<0.01			
5/31/2016		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6/1/2016	<0.01						
8/15/2016	<0.01						
8/16/2016		<0.01	<0.01	<0.01	0.00381 (J)		<0.01
8/17/2016						<0.01	
10/11/2016	<0.01						<0.01
10/12/2016		<0.01	<0.01	<0.01	<0.01	<0.01	
1/24/2017	<0.01						<0.01
1/25/2017		<0.01	<0.01	<0.01	<0.01	<0.01	
5/9/2017	<0.01		<0.01	<0.01	<0.01	<0.01	
5/10/2017		<0.01					<0.01
6/27/2017	<0.01						<0.01
6/28/2017		<0.01	<0.01	<0.01	0.00219 (J)	<0.01	
2/27/2018	<0.01	<0.01	<0.01			<0.01	
2/28/2018				<0.01	<0.01		<0.01
6/4/2018	<0.01						
6/5/2018		<0.01	<0.01				<0.01
6/6/2018				<0.01	<0.01	<0.01	
11/5/2018			<0.01	<0.01	<0.01		
11/6/2018	<0.01						<0.01
11/7/2018		<0.01				<0.01	
3/26/2019				<0.01	<0.01		<0.01
3/27/2019	<0.01	<0.01	<0.01			<0.01	
9/10/2019	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
9/11/2019					<0.01		
4/20/2020					<0.01		<0.01
4/21/2020	<0.01			<0.01		<0.01	
4/22/2020		<0.01	<0.01				
8/11/2020						<0.01	
8/12/2020							<0.01
8/17/2020	<0.01						
8/18/2020		<0.01	<0.01	<0.01	<0.01		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<0.01		
2/17/2016	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
4/12/2016			<0.01			<0.01	<0.01
4/13/2016	<0.01	<0.01		<0.01	<0.01		
6/1/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/15/2016	<0.01	<0.01	<0.01	<0.01			
8/16/2016					<0.01	<0.01	<0.01
10/11/2016				<0.01		<0.01	<0.01
10/12/2016	<0.01	<0.01	<0.01		<0.01		
1/24/2017	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
1/25/2017					<0.01		
5/9/2017				<0.01	<0.01	<0.01	
5/10/2017	<0.01	<0.01	<0.01				<0.01
6/27/2017	<0.01	<0.01	<0.01			<0.01	
6/28/2017				<0.01	<0.01		<0.01
2/27/2018				<0.01		<0.01	<0.01
2/28/2018	<0.01	<0.01	<0.01		<0.01		
6/4/2018				<0.01			
6/5/2018	<0.01	<0.01	<0.01			<0.01	<0.01
6/6/2018					<0.01		
11/5/2018					<0.01		
11/6/2018	<0.01	<0.01	<0.01	<0.01			
11/7/2018						<0.01	<0.01
3/26/2019	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
3/27/2019				<0.01			
9/9/2019		<0.01	<0.01	<0.01			
9/10/2019	<0.01				<0.01	<0.01	<0.01
4/20/2020	<0.01						
4/21/2020		<0.01	<0.01	<0.01	<0.01	<0.01	
4/22/2020							<0.01
8/11/2020	<0.01	<0.01					
8/12/2020			<0.01			<0.01	<0.01
8/17/2020				<0.01			
8/18/2020					<0.01		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.01					<0.01	
4/12/2016	<0.01					<0.01	
6/1/2016	<0.01					<0.01	
8/15/2016						<0.01	
8/16/2016					<0.01		<0.01
8/17/2016	<0.01	<0.01	<0.01	<0.01			
9/20/2016		<0.01	<0.01	<0.01	<0.01		<0.01
10/11/2016	<0.01				<0.01	<0.01	<0.01
10/12/2016		<0.01	<0.01	<0.01			
11/15/2016		<0.01	<0.01	<0.01	<0.01		<0.01
1/4/2017		<0.01	<0.01	<0.01	<0.01		<0.01
1/23/2017		<0.01	<0.01				<0.01
1/24/2017	<0.01			<0.01		<0.01	
1/26/2017					<0.01		
5/9/2017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6/27/2017		<0.01	<0.01	<0.01	<0.01		<0.01
6/28/2017	<0.01					<0.01	
2/27/2018		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/28/2018	<0.01						
6/4/2018						<0.01	
6/5/2018		<0.01	<0.01	<0.01	<0.01		<0.01
6/6/2018	<0.01						
11/6/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/26/2019		<0.01	<0.01	<0.01	<0.01		<0.01
3/27/2019	<0.01					<0.01	
9/9/2019						<0.01	
9/10/2019	<0.01						
9/11/2019		<0.01	<0.01	<0.01	<0.01		<0.01
4/20/2020						<0.01	
4/21/2020		<0.01	<0.01	<0.01	<0.01		<0.01
4/22/2020	<0.01						
8/11/2020	<0.01						
8/17/2020						<0.01	
8/18/2020		<0.01	<0.01	<0.01	<0.01		<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.01	<0.01	<0.01				
9/19/2016	<0.01	<0.01	<0.01				
10/11/2016	<0.01	<0.01	<0.01				
11/14/2016	<0.01	<0.01	<0.01				
1/3/2017	<0.01	<0.01	<0.01				
1/24/2017	<0.01	<0.01					
1/25/2017			<0.01				
5/10/2017	<0.01	<0.01	<0.01				
6/27/2017	<0.01	<0.01	<0.01				
2/27/2018	<0.01	<0.01	<0.01				
6/5/2018	<0.01	<0.01	<0.01				
11/5/2018		<0.01					
11/6/2018	<0.01		<0.01				
1/15/2019							<0.01
1/16/2019					<0.01		
1/17/2019				<0.01			
1/30/2019						<0.01	
3/27/2019	<0.01	<0.01	<0.01				
9/10/2019				<0.01			
9/11/2019	<0.01	<0.01	<0.01		<0.01	0.0155	
4/21/2020					<0.01		
4/22/2020	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
8/11/2020	<0.01					<0.01	
8/12/2020		<0.01	<0.01	<0.01			
8/18/2020					<0.01		
8/19/2020							<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	0.0117						
1/15/2019		<0.01	<0.01	<0.01	<0.01		
1/16/2019						<0.01	<0.01
9/10/2019			<0.01				
9/11/2019	<0.01	<0.01		<0.01	0.00325 (J)	<0.01	<0.01
4/20/2020			<0.01				<0.01
4/21/2020					<0.01	<0.01	
4/22/2020	<0.01	<0.01					
4/29/2020				<0.01			
8/11/2020		<0.01					
8/12/2020			<0.01				<0.01
8/18/2020				<0.01			
8/19/2020	<0.01				<0.01	<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
2/17/2016				<0.01			
4/12/2016				<0.01			
5/31/2016				<0.01			
8/17/2016				<0.01			
10/11/2016				<0.01			
1/24/2017				<0.01			
5/9/2017				<0.01			
6/28/2017				<0.01			
2/27/2018				<0.01			
6/5/2018				<0.01			
11/6/2018				<0.01			
3/27/2019				<0.01			
9/11/2019				<0.01			
4/20/2020	<0.01				<0.01	<0.01	<0.01
4/21/2020		<0.01	<0.01	<0.01			
8/11/2020					<0.01		
8/12/2020				<0.01		<0.01	<0.01
8/17/2020	<0.01	<0.01					
8/19/2020			<0.01				

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.01	<0.01			
2/17/2016	<0.01	<0.01					
4/12/2016	<0.01						
4/13/2016		<0.01	<0.01	<0.01			
5/31/2016	<0.01	<0.01					
6/1/2016			<0.01	<0.01			
8/17/2016	<0.01	<0.01	<0.01	<0.01			
10/11/2016	<0.01						
10/12/2016		<0.01	<0.01	<0.01			
1/24/2017	<0.01						
1/25/2017		<0.01	<0.01	<0.01			
5/10/2017	<0.01	<0.01	<0.01	<0.01			
6/28/2017	<0.01	<0.01	<0.01	<0.01			
2/27/2018	<0.01	<0.01	<0.01	<0.01			
6/5/2018	<0.01	<0.01	<0.01	<0.01			
11/7/2018	<0.01	<0.01	<0.01	<0.01			
3/26/2019	<0.01	<0.01	<0.01	<0.01			
9/10/2019	<0.01	<0.01	<0.01	<0.01	<0.01		
4/20/2020					<0.01		
4/21/2020	<0.01	<0.01	<0.01	<0.01			
7/6/2020						<0.01	<0.01
8/11/2020						<0.01	<0.01
8/17/2020					<0.01		
8/18/2020				<0.01			
8/19/2020	<0.01	<0.01	<0.01				

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.01	<0.01	0.00515 (J)	<0.01
8/11/2020	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		0.0135		<0.005	<0.005	0.00732 (J)	
2/17/2016	0.0395		0.0504				0.0169
4/12/2016					<0.005	0.00785 (J)	0.0158
4/13/2016	0.0452	0.0155	0.0448	<0.005			
5/31/2016		0.0146	0.0405	<0.005	<0.005	0.00712 (J)	0.014
6/1/2016	0.0576						
8/15/2016	0.0573						
8/16/2016		0.016	0.0464	<0.005	<0.005		0.0153
8/17/2016						0.00545 (J)	
10/11/2016	0.0531						0.0162
10/12/2016		0.0154	0.0489	<0.005	<0.005	0.00497 (J)	
1/24/2017	0.0539						0.0132
1/25/2017		0.0139	0.0417	<0.005	<0.005	0.00454 (J)	
5/9/2017	0.057		0.0471	<0.005	<0.005	0.00488 (J)	
5/10/2017		0.0144					0.014
6/27/2017	0.0664						0.0163
6/28/2017		0.0134	0.0664	<0.005	<0.005	0.00805 (J)	
2/27/2018	0.0652	0.0148	0.0438			0.016	
2/28/2018				<0.005	<0.005		0.0157
6/4/2018	0.0758						
6/5/2018		0.0139	0.036				0.0148
6/6/2018				<0.005	<0.005	0.024	
11/5/2018			0.0171	<0.005	<0.005		
11/6/2018	0.0898						0.0158
11/7/2018		0.015				0.0124	
3/26/2019				<0.005	<0.005		0.0184
3/27/2019	0.176	0.014	0.0292			0.0303	
9/10/2019	0.104	0.0191	0.02	<0.005		0.0278	0.0201
9/11/2019					<0.005		
4/20/2020					<0.005		0.0189
4/21/2020	0.206			<0.005		0.0339	
4/22/2020		0.0233	0.0319				
8/11/2020						0.0373	
8/12/2020							0.0184
8/17/2020	0.195						
8/18/2020		0.0287	0.0298	<0.005	<0.005		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<0.005		
2/17/2016	0.016	0.0101	0.0227	0.00989 (J)		<0.005	0.00219 (J)
4/12/2016			0.0209			<0.005	<0.005
4/13/2016	0.0139	0.0109		0.0106	<0.005		
6/1/2016	0.0117	0.0134	0.02	0.011	<0.005	<0.005	<0.005
8/15/2016	0.0133	0.0134	0.0225	0.0117			
8/16/2016					<0.005	<0.005	<0.005
10/11/2016				0.0117		<0.005	<0.005
10/12/2016	0.0147	0.0204	0.0206		<0.005		
1/24/2017	0.0122	0.0157	0.015	0.00863 (J)		<0.005	<0.005
1/25/2017					<0.005		
5/9/2017				0.00975 (J)	<0.005	<0.005	
5/10/2017	0.0133	0.0179	0.0141				<0.005
6/27/2017	0.0141	0.0166	0.0144			<0.005	
6/28/2017				0.0102	<0.005		<0.005
2/27/2018				0.00924 (J)		<0.005	<0.005
2/28/2018	0.014	0.0251	0.0136		<0.005		
6/4/2018				0.00866 (J)			
6/5/2018	0.0114	0.0456	0.0138			<0.005	<0.005
6/6/2018					<0.005		
11/5/2018					<0.005		
11/6/2018	0.0141	0.0321	0.0158	0.0101			
11/7/2018						<0.005	<0.005
3/26/2019	0.0177	0.0192	0.0161		<0.005	<0.005	<0.005
3/27/2019				0.0131			
9/9/2019		0.0121	0.0174	0.0154			
9/10/2019	0.0162				<0.005	<0.005	<0.005
4/20/2020	0.0146						
4/21/2020		0.0158	0.0173	0.0194	<0.005	<0.005	
4/22/2020							<0.005
8/11/2020	0.0148	0.0122					
8/12/2020			0.0152			<0.005	<0.005
8/17/2020				0.0249			
8/18/2020					<0.005		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	0.00683 (J)					0.00507 (J)	
4/12/2016	0.00656 (J)					0.0047 (J)	
6/1/2016	0.00637 (J)					0.00372 (J)	
8/15/2016						0.0039 (J)	
8/16/2016					0.0122		0.00548 (J)
8/17/2016	0.00659 (J)	0.0167	0.00692 (J)	0.00599 (J)			
9/20/2016		0.0122	0.00232 (J)	0.00466 (J)	0.012		0.0026 (J)
10/11/2016	0.00687 (J)				0.0135	0.00415 (J)	0.00214 (J)
10/12/2016		0.00839 (J)	<0.005	0.00394 (J)			
11/15/2016		0.00562 (J)	<0.005	0.00296 (J)	0.00938 (J)		<0.005
1/4/2017		0.00655 (J)	<0.005	0.00448 (J)	0.00859 (J)		<0.005
1/23/2017		0.0116	0.00203 (J)				<0.005
1/24/2017	0.00522 (J)			0.00259 (J)		0.00383 (J)	
1/26/2017					0.0104		
5/9/2017	0.00646 (J)	0.0167	<0.005	<0.005	0.0119	0.00396 (J)	<0.005
6/27/2017		0.0109	<0.005	<0.005	0.0106		<0.005
6/28/2017	0.00721 (J)					0.00336 (J)	
2/27/2018		0.00278 (J)	<0.005	<0.005	0.0027 (J)	0.00442 (J)	<0.005
2/28/2018	0.00771 (J)						
6/4/2018						0.0038 (J)	
6/5/2018		0.00223 (J)	<0.005	<0.005	0.00317 (J)		<0.005
6/6/2018	0.00712 (J)						
11/6/2018	0.00791	0.00202 (J)	<0.005	<0.005	0.00367 (J)	0.00439 (J)	<0.005
3/26/2019		<0.005	<0.005	<0.005	<0.005		<0.005
3/27/2019	0.0114					0.00463 (J)	
9/9/2019						0.00413 (J)	
9/10/2019	0.0127						
9/11/2019		<0.005	<0.005	<0.005	0.00265 (J)		<0.005
4/20/2020						0.00396 (J)	
4/21/2020		<0.005	<0.005	<0.005	<0.005		<0.005
4/22/2020	0.0133						
8/11/2020	0.0126						
8/17/2020						<0.005	
8/18/2020		0.00279 (J)	<0.005	<0.005	0.00224 (J)		<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.005	<0.005	0.00923 (J)				
9/19/2016	0.00242 (J)	<0.005	0.00539 (J)				
10/11/2016	0.0024 (J)	<0.005	0.00506 (J)				
11/14/2016	<0.005	<0.005	0.00399 (J)				
1/3/2017	0.00217 (J)	<0.005	0.0037 (J)				
1/24/2017	0.00239 (J)	<0.005					
1/25/2017			0.0077 (J)				
5/10/2017	<0.005	<0.005	0.00291 (J)				
6/27/2017	<0.005	<0.005	0.00247 (J)				
2/27/2018	<0.005	<0.005	<0.005				
6/5/2018	<0.005	<0.005	<0.005				
11/5/2018		<0.005					
11/6/2018	<0.005		<0.005				
1/15/2019							0.0407
1/16/2019					<0.005		
1/17/2019				0.033			
1/30/2019						<0.005	
3/27/2019	<0.005	<0.005	<0.005				
9/10/2019				0.0131			
9/11/2019	<0.005	<0.005	<0.005		<0.005	<0.005	
4/21/2020					<0.005		
4/22/2020	<0.005	<0.005	<0.005	0.00675		<0.005	0.0327
8/11/2020	<0.005					<0.005	
8/12/2020		<0.005	<0.005	0.00222 (J)			
8/18/2020					<0.005		
8/19/2020							0.0176

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	<0.005						
1/15/2019		0.0173	0.0203	0.0044 (J)	0.0281		
1/16/2019						0.0131	0.106
9/10/2019			0.0139				
9/11/2019	0.00363 (J)	0.0194		0.00897	0.0449	0.0143	0.106
4/20/2020			0.0132				0.324
4/21/2020					0.0359	0.0162	
4/22/2020	<0.005	0.0192					
4/29/2020				0.00777			
8/11/2020		0.0176					
8/12/2020			0.00717				0.273
8/18/2020				0.00814			
8/19/2020	<0.005				0.037	0.0173	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	0.00451 (J)				0.119	0.0203	0.0862
4/21/2020		0.00236 (J)	0.00799	0.00601			
8/11/2020					0.0859		
8/12/2020				0.00678		0.0272	0.0857
8/17/2020	0.00458 (J)	<0.005					
8/19/2020			0.00853				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			0.0129	0.00869 (J)			
2/17/2016	<0.005	<0.005					
4/12/2016	<0.005						
4/13/2016		0.00218 (J)	0.0139	0.00936 (J)			
5/31/2016	0.00389 (J)	0.00328 (J)					
6/1/2016			0.0139	0.00976 (J)			
8/17/2016	0.00234 (J)	0.00217 (J)	0.0138	0.012			
10/11/2016	0.00202 (J)						
10/12/2016		0.00225 (J)	0.0138	0.0127			
1/24/2017	<0.005						
1/25/2017		<0.005	0.0115	0.0109			
5/10/2017	<0.005	<0.005	0.0125	0.0129			
6/28/2017	<0.005	<0.005	0.0137	0.0125			
2/27/2018	<0.005	<0.005	0.00698 (J)	0.013			
6/5/2018	0.00237 (J)	<0.005	0.00478 (J)	0.0113			
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	0.146		
4/20/2020					0.157		
4/21/2020	0.00228 (J)	0.00206 (J)	0.0111	0.0166			
7/6/2020						0.0158	<0.005
8/11/2020						0.0129	<0.005
8/17/2020					0.148		
8/18/2020				0.0164			
8/19/2020	0.00278 (J)	0.0046 (J)	0.00975				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	0.00801	<0.005	0.0445	<0.005
8/11/2020	0.0056	<0.005	0.022	<0.005

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		<3		<3	<3	<3	
2/17/2016	<3		<3				<3
4/12/2016					<3	<3	<3
4/13/2016	1.0468 (U)	<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						
8/15/2016	1.42						
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)	
1/24/2017	1.3						0.35 (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)
6/27/2017	1.32						0.793
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
6/4/2018	1.01						
6/5/2018		0.698	0.244 (U)				-0.365 (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)
11/7/2018		0.568				0.888	
3/26/2019				0.381	0.471		0.535
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)
9/11/2019					0.557 (U)		
4/20/2020					0.256 (U)		0.693
4/21/2020	0.712			-0.0655 (U)		0.653	
4/22/2020		1.11	0.502 (U)				
8/11/2020						1.64	
8/12/2020							0.983
8/17/2020	1.46						
8/18/2020		1.08	0.457 (U)	0.135 (U)	0.568 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<3		
2/17/2016	<3	<3	<3	<3		<3	<3
4/12/2016			<3			<3	<3
4/13/2016	<3	<3		<3	<3		
6/1/2016	0.515	0.972	1.55	0.758	0.126 (U)	0.044 (U)	0.407
8/15/2016	0.843	1.43	1.85	0.638			
8/16/2016					0.477	0.213 (U)	0.547 (U)
10/11/2016				0.701		0.184 (U)	0.845
10/12/2016	0.397 (U)	0.246 (U)	0.481		0.137 (U)		
1/24/2017	0.269 (U)	0.918	0.889	0.515 (U)		0.251 (U)	0.403 (U)
1/25/2017					0.55		
5/9/2017				0.393 (U)	0.182 (U)	0.631	
5/10/2017	0.454	1.27	1.01				0.645
6/27/2017	1.25	1.51	1.17			0.145 (U)	
6/28/2017				0.374	0.228 (U)		0.93
2/27/2018			0.702	0.334 (U)	0.293 (U)	0.402 (U)	1.88
2/28/2018	1.17	1.05					
6/4/2018				0.64			
6/5/2018	0.337 (U)	1.07	0.999			0.313 (U)	1.13
6/6/2018					-0.056 (U)		
11/5/2018					0.637		
11/6/2018	0.661	1.05	0.913	0.803			
11/7/2018						0.496 (U)	1.72
3/26/2019	1.18	1.57	1.35		0.405	0.315 (U)	1.21
3/27/2019				0.77			
9/9/2019		1.29	1.08	0.3 (U)			
9/10/2019	0.516 (U)				0.0889 (U)	0.219 (U)	1.21
4/20/2020	0.493 (U)						
4/21/2020		0.859	0.888	0.663 (U)	0.271 (U)	0.166 (U)	
4/22/2020							0.791
8/11/2020	1.48	2.14					
8/12/2020			1.17			0.986	0.919
8/17/2020				0.817			
8/18/2020					-0.0105 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<3					<3	
4/12/2016	<3					<3	
6/1/2016	0.1 (U)					1.06	
8/15/2016						0.972	
8/16/2016					0.522		0.434 (U)
8/17/2016	0.372 (U)	0.66	0.386 (U)	1.47			
9/20/2016		0.582	0.794	1.24	0.746		0.51
10/11/2016	0.277 (U)				0.819	0.802	0.166 (U)
10/12/2016		-0.183 (U)	0.81	0.899			
11/15/2016		0.262 (U)	0.366 (U)	0.933	0.516		0.589
1/4/2017		0.255 (U)	0.356 (U)	1.54	0.648 (U)		0.659
1/23/2017		0.871	0.429 (U)				0.227 (U)
1/24/2017	0.585			0.868		1.1	
1/26/2017					0.852		
5/9/2017	0.489	0.575	0.62	1.22	0.148 (U)	0.74	0.436 (U)
6/27/2017		0.459	0.319 (U)	0.925	0.393		0.197 (U)
6/28/2017	0.333					0.867	
2/27/2018	1.08	1.3	0.271 (U)	0.0271 (U)	0.695	0.905	0.896
6/4/2018						0.954	
6/5/2018		0.269 (U)	0.391	0.792	0.145 (U)		0.342 (U)
6/6/2018	0.016 (U)						
11/6/2018	0.0751 (U)	0.328 (U)	0.646	0.926	0.513 (U)	1.27	0.928
3/26/2019		0.571	0.498	1.08	0.598		1.3
3/27/2019	0.309 (U)					1.47	
9/9/2019						1.12	
9/10/2019	0.578						
9/11/2019		0.561	0.368 (U)	0.995	0.237 (U)		0.995
4/20/2020						0.899	
4/21/2020		0.215 (U)	0.55	0.307 (U)	0.201 (U)		0.00976 (U)
4/22/2020	0.218 (U)						
8/11/2020	0.511 (U)						
8/17/2020						0.738	
8/18/2020		2.3	0.504 (U)	0.797	3.88		3.33

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	1.34	0.951	0.534 (U)				
9/19/2016	0.561 (U)	0.242 (U)	0.238 (U)				
10/11/2016	0.118 (U)	0.34 (U)	0.158 (U)				
11/14/2016	0.984	0.447 (U)	0.641				
1/3/2017	0.473 (U)	0.729	0.834				
1/24/2017	-0.422 (U)	0.184 (U)					
1/25/2017			0.605				
5/10/2017	0.706		0.563				
5/31/2017		0.454					
6/27/2017	0.412	-0.111 (U)	0.937				
2/27/2018	0.314 (U)	0.146 (U)	0.475				
6/5/2018	0.218 (U)	-0.128 (U)	1.65				
11/5/2018		0.0946 (U)					
11/6/2018	0.566 (U)		1.55				
1/15/2019							0.354 (U)
1/16/2019					0.0207 (U)		
1/17/2019				0.628			
1/30/2019						0.479 (U)	
3/27/2019	0.29 (U)	0.5	1.83				
9/10/2019				0.656			
9/11/2019	0.28 (U)	-0.464 (U)	1.02		0.734	0.412 (U)	
4/21/2020					0.423 (U)		
4/22/2020	0.0983 (U)	0.474 (U)	1.08	0.473 (U)		-0.103 (U)	0.273 (U)
8/11/2020	0.767					0.223 (U)	
8/12/2020		3.18	3.41	2.1			
8/18/2020					0.636 (U)		
8/19/2020							0.994

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	0.359 (U)						
1/15/2019		0.901	0.387 (U)	0.839	0.739		
1/16/2019						0.426 (U)	0.422 (U)
9/10/2019			0.519 (U)				
9/11/2019	1.22	1.16		0.13 (U)	0.195 (U)	0.558 (U)	0.637 (U)
4/20/2020			0.66				0.386 (U)
4/21/2020					0.678	1.89	
4/22/2020	0.413 (U)	1.48					
4/29/2020				0.684			
8/11/2020		2.02					
8/12/2020			0.928				4.07
8/18/2020				0.742			
8/19/2020	0.347 (U)				0.687	1.99	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	0.529				1.13	1	1.5
4/21/2020		0.251 (U)	0.594	0.882			
8/11/2020					1.56		
8/12/2020				2.08		2.14	0.991
8/17/2020	1.16	1.11					
8/19/2020			0.0107 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<3	<3			
2/17/2016	<3	<3					
4/12/2016	<3						
4/13/2016		<3	<3	<3			
5/31/2016	0.453 (U)	0.658					
6/1/2016			0.884	0.532			
8/17/2016	0.381 (U)	0.936	1.06	1.07			
10/11/2016	0.139 (U)						
10/12/2016		0.668	0.269 (U)	1.07			
1/24/2017	0.496						
1/25/2017		0.718	1.12	1.46			
5/10/2017	0.278 (U)	0.56	0.887	1.21			
6/28/2017	0.724	0.526	0.908	0.821			
2/27/2018	0.214 (U)	0.803					
2/28/2018			0.131 (U)	0.232 (U)			
6/5/2018	0.176 (U)	0.577	0.564	0.722			
11/7/2018	1.39	1.51	0.34 (U)	0.82			
3/26/2019	0.904	0.841	0.507	1.49			
3/27/2019					1.69		
9/10/2019	1.14	0.569 (U)	0.898	1.75	1.89		
4/20/2020					1.59		
4/21/2020	0.679 (U)	0.549 (U)	1.09	1.31			
7/6/2020						0.432 (U)	0.292 (U)
8/11/2020						0.777	0.477 (U)
8/17/2020					1.16		
8/18/2020				1.59			
8/19/2020	0.96	1.04	0.6 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	0.612	-0.0036 (U)	2.27	0.0544 (U)
8/11/2020	0.883	0.208 (U)	0.997	0.462 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:55 PM

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
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)
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)			
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)						
8/15/2016	0.081 (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)	
3/14/2017	0.04 (J)		0.09 (J)			0.11	0.09 (J)
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
6/27/2017	0.04 (J)						0.1
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
2/27/2018	0.07 (J)	0.26	0.14			0.13	
2/28/2018				0.19	0.14		0.09 (J)
6/4/2018	0.07 (J)						
6/5/2018		0.24	0.16				0.13
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
11/7/2018		0.25				0.19	
3/26/2019				0.196	0.0775 (J)		0.113
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
9/11/2019					0.118		
4/20/2020					0.0844 (J)		0.14
4/21/2020	0.12			0.198		0.254	
4/22/2020		0.224	0.167				
8/11/2020						0.278	
8/12/2020							0.147
8/17/2020	0.115						
8/18/2020		0.203	0.165	0.223	0.108		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					0.18 (J)		
2/17/2016	0.2 (J)	0.53	0.15 (J)	0.09 (J)		0.08 (J)	0.02 (J)
4/12/2016			0.168 (J)			0.077 (J)	0.026 (J)
4/13/2016	0.173 (J)	0.437		0.092 (J)	0.191 (J)		
6/1/2016	0.253 (J)	0.376	0.178 (J)	0.108 (J)	0.201 (J)	0.101 (J)	0.057 (J)
8/15/2016	0.224 (J)	0.362	0.149 (J)	0.105 (J)			
8/16/2016					0.218 (J)	0.093 (J)	0.046 (J)
10/11/2016				0.062 (J)		0.059 (J)	<0.1
10/12/2016	0.187 (J)	0.377	0.12 (J)		0.171 (J)		
3/14/2017	0.23	0.41	0.17	<0.1		0.07 (J)	<0.1
3/15/2017					0.16		
5/9/2017				0.07 (J)	0.17	0.08 (J)	
5/10/2017	0.23	0.36	0.17				<0.1
6/27/2017	0.22	0.38	0.18			0.08 (J)	
6/28/2017				0.09 (J)	0.18		<0.1
8/29/2017					0.23	0.1	0.04 (J)
8/30/2017	0.28	0.38	0.21	0.07 (J)			
2/27/2018				0.08 (J)		0.08 (J)	<0.1
2/28/2018	0.23	0.58	0.17		0.2		
6/4/2018				0.09 (J)			
6/5/2018	0.28	0.41	0.17			0.09 (J)	0.04 (J)
6/6/2018					0.19		
11/5/2018					0.22		
11/6/2018	0.24	0.45	0.17	0.07 (J)			
11/7/2018						0.08 (J)	<0.1
3/26/2019	0.316	0.573	0.192		0.219	0.123	<0.1
3/27/2019				0.089 (J)			
9/9/2019		0.477	0.157	0.163			
9/10/2019	0.267				0.194	0.0914 (J)	0.0545 (J)
4/20/2020	0.245						
4/21/2020		0.565	0.171	0.126	0.173	0.095 (J)	
4/22/2020							<0.1
8/11/2020	0.294	0.515					
8/12/2020			0.198			0.0867 (J)	<0.1
8/17/2020				0.0753 (J)			
8/18/2020					0.18		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	0.02 (J)					0.08 (J)	
4/12/2016	0.021 (J)					0.083 (J)	
6/1/2016	0.051 (J)					0.118 (J)	
8/15/2016						0.109 (J)	
8/16/2016					0.05 (J)		0.036 (J)
8/17/2016	0.037 (J)	0.159 (J)	0.039 (J)	0.055 (J)			
9/20/2016		0.126 (J)	0.01 (o)	0.021 (o)	0.015 (J)		<0.1
10/11/2016	<0.1				<0.1	0.066 (J)	<0.1
10/12/2016		0.1 (J)	<0.1	<0.1			
11/15/2016		0.016 (J)	<0.1	<0.1	<0.1		<0.1
1/4/2017		<0.1	<0.1	<0.1	<0.1		<0.1
3/13/2017		0.31 (o)			<0.1		
3/14/2017	<0.1		<0.1	<0.1		0.07 (J)	<0.1
5/9/2017	<0.1	0.25 (o)	<0.1	<0.1	<0.1	0.09 (J)	<0.1
6/27/2017		0.22 (o)	<0.1	<0.1	<0.1		<0.1
6/28/2017	0.04 (J)					0.1	
8/29/2017	<0.1	0.22 (o)	<0.1				
8/30/2017				<0.1	<0.1	0.12	<0.1
2/27/2018		0.08 (J)	<0.1	<0.1	<0.1	0.09 (J)	<0.1
2/28/2018	<0.1						
6/4/2018						0.1	
6/5/2018		0.07 (J)	<0.1	<0.1	<0.1		<0.1
6/6/2018	<0.1						
11/6/2018	<0.1	0.07 (J)	<0.1	<0.1	<0.1	0.1	<0.1
3/26/2019		<0.1	<0.1	<0.1	<0.1		<0.1
3/27/2019	<0.1					0.13	
9/9/2019						0.121	
9/10/2019	<0.1						
9/11/2019		0.0716 (J)	<0.1	0.0649 (J)	<0.1		<0.1
4/20/2020						0.112	
4/21/2020		<0.1	<0.1	<0.1	<0.1		<0.1
4/22/2020	<0.1						
8/11/2020	<0.1						
8/17/2020						0.148	
8/18/2020		<0.1	<0.1	<0.1	<0.1		<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	0.087 (J)	0.054 (J)	0.061 (J)				
9/19/2016	0.045 (J)	0.023 (J)	0.018 (J)				
10/11/2016	0.034 (J)	0.011 (J)	<0.1				
11/14/2016	<0.1	<0.1	<0.1				
1/3/2017	<0.1	<0.1	<0.1				
3/14/2017	<0.1	<0.1	<0.1				
5/10/2017	0.05 (J)	0.05 (J)	0.06 (J)				
6/27/2017	0.05 (J)	0.04 (J)	0.07 (J)				
8/30/2017	<0.1	0.04 (J)	0.08 (J)				
2/27/2018	<0.1	0.04 (J)	0.07 (J)				
6/5/2018	<0.1	0.04 (J)	0.1				
11/5/2018		<0.1					
11/6/2018	<0.1		0.08 (J)				
1/15/2019							0.0512 (J)
1/16/2019					<0.1		
1/17/2019				<0.1			
1/30/2019						0.264	
3/27/2019	<0.1	<0.1	<0.1				
9/10/2019				<0.1			
9/11/2019	<0.1	0.0518 (J)	<0.1		0.082 (J)	0.289	
4/21/2020					0.16		
4/22/2020	<0.1	<0.1	<0.1	<0.1		0.279	0.197
8/11/2020	<0.1					0.325	
8/12/2020		<0.1	<0.1	<0.1			
8/18/2020					0.0766 (J)		
8/19/2020							0.141

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	0.0841 (J)						
1/15/2019		0.465	0.0981 (J)	0.0859 (J)	<0.1		
1/16/2019						0.0888 (J)	0.0727 (J)
9/10/2019			0.18				
9/11/2019	0.142	0.443		0.0609 (J)	0.063 (J)	0.127	0.0783 (J)
4/20/2020			0.0952 (J)				0.0638 (J)
4/21/2020					0.0701 (J)	0.147	
4/22/2020	0.135	0.446					
4/29/2020				0.0857 (J)			
8/11/2020		0.494					
8/12/2020			0.145				0.0867 (J)
8/18/2020				0.092 (J)			
8/19/2020	0.149				0.077 (J)	0.154	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	0.176				0.154	0.25	0.189
4/21/2020		<0.1	0.075 (J)	0.224			
8/11/2020					0.133		
8/12/2020				0.221		0.275	0.165
8/17/2020	0.195	<0.1					
8/19/2020			0.0823 (J)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			0.08 (J)	0.16 (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)	0.15 (J)			
5/31/2016	0.212 (J)	0.103 (J)					
6/1/2016			0.109 (J)	0.19 (J)			
8/17/2016	0.19 (J)	0.078 (J)	0.089 (J)	0.171 (J)			
10/11/2016	0.15 (J)						
10/12/2016		0.041 (J)	0.048 (J)	0.137 (J)			
3/14/2017	0.18	0.07 (J)					
3/15/2017			0.08 (J)	0.15			
5/10/2017	0.19	0.09 (J)	0.1	0.17			
6/28/2017	0.18	0.08 (J)	0.09 (J)	0.16			
8/29/2017	0.22	0.09 (J)	0.11	0.19			
2/27/2018	0.22	0.08 (J)	0.11	0.19			
6/5/2018	0.23	0.08 (J)	0.11	0.19			
11/7/2018	0.22	0.08 (J)	0.11	0.2			
3/26/2019	0.253	0.106	0.162	0.223			
9/10/2019	0.227	0.086 (J)	0.113	0.178	0.0831 (J)		
4/20/2020					0.132		
4/21/2020	0.218	0.0951 (J)	0.114	0.181			
7/6/2020						0.0721 (J)	0.185
8/11/2020						0.0762 (J)	0.169
8/17/2020					0.0959 (J)		
8/18/2020				0.177			
8/19/2020	0.223	0.103	0.116				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	0.138	0.0647 (J)	0.0914 (J)	<0.1
8/11/2020	0.16	<0.1	0.137	<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		<0.005		<0.005	<0.005	<0.005	
2/17/2016	<0.005		<0.005				<0.005
4/12/2016					<0.005	<0.005	<0.005
4/13/2016	<0.005	<0.005	<0.005	<0.005			
5/31/2016		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/1/2016	<0.005						
8/15/2016	<0.005						
8/16/2016		<0.005	<0.005	<0.005	<0.005		<0.005
8/17/2016						<0.005	
10/11/2016	<0.005						<0.005
10/12/2016		<0.005	<0.005	<0.005	<0.005	<0.005	
1/24/2017	<0.005						<0.005
1/25/2017		<0.005	<0.005	<0.005	<0.005	<0.005	
5/9/2017	<0.005		<0.005	<0.005	<0.005	<0.005	
5/10/2017		<0.005					<0.005
6/27/2017	<0.005						<0.005
6/28/2017		<0.005	<0.005	<0.005	<0.005	<0.005	
2/27/2018	<0.005	<0.005	<0.005			<0.005	
2/28/2018				<0.005	<0.005		<0.005
6/4/2018	<0.005						
6/5/2018		<0.005	<0.005				<0.005
6/6/2018				<0.005	<0.005	<0.005	
11/5/2018			<0.005	<0.005	<0.005		
11/6/2018	<0.005						<0.005
11/7/2018		<0.005				<0.005	
3/26/2019				<0.005	<0.005		<0.005
3/27/2019	<0.005	<0.005	<0.005			<0.005	
9/10/2019	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
9/11/2019					<0.005		
4/20/2020					<0.005		<0.005
4/21/2020	<0.005			<0.005		<0.005	
4/22/2020		<0.005	<0.005				
8/11/2020						<0.005	
8/12/2020							<0.005
8/17/2020	<0.005						
8/18/2020		<0.005	<0.005	<0.005	<0.005		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<0.005		
2/17/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
4/12/2016			<0.005			<0.005	<0.005
4/13/2016	<0.005	<0.005		<0.005	<0.005		
6/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/15/2016	<0.005	<0.005	<0.005	0.00104 (J)			
8/16/2016					<0.005	<0.005	<0.005
10/11/2016				<0.005		<0.005	<0.005
10/12/2016	<0.005	<0.005	<0.005		<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
1/25/2017					<0.005		
5/9/2017				<0.005	<0.005	<0.005	
5/10/2017	<0.005	<0.005	<0.005				<0.005
6/27/2017	<0.005	<0.005	<0.005			<0.005	
6/28/2017				<0.005	<0.005		<0.005
2/27/2018				<0.005		<0.005	<0.005
2/28/2018	<0.005	<0.005	<0.005		<0.005		
6/4/2018				<0.005			
6/5/2018	<0.005	<0.005	<0.005			<0.005	<0.005
6/6/2018					<0.005		
11/5/2018					<0.005		
11/6/2018	<0.005	<0.005	<0.005	<0.005			
11/7/2018						<0.005	<0.005
3/26/2019	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
3/27/2019				<0.005			
9/9/2019		<0.005	<0.005	<0.005			
9/10/2019	<0.005				<0.005	<0.005	<0.005
4/20/2020	<0.005						
4/21/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
4/22/2020							<0.005
8/11/2020	<0.005	<0.005					
8/12/2020			<0.005			<0.005	<0.005
8/17/2020				<0.005			
8/18/2020					<0.005		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.005					<0.005	
4/12/2016	<0.005					<0.005	
6/1/2016	<0.005					<0.005	
8/15/2016						<0.005	
8/16/2016					<0.005		<0.005
8/17/2016	<0.005	<0.005	<0.005	<0.005			
9/20/2016		<0.005	<0.005	<0.005	<0.005		<0.005
10/11/2016	<0.005				<0.005	<0.005	<0.005
10/12/2016		<0.005	<0.005	<0.005			
11/15/2016		<0.005	<0.005	<0.005	<0.005		<0.005
1/4/2017		<0.005	<0.005	<0.005	<0.005		<0.005
1/23/2017		<0.005	<0.005				<0.005
1/24/2017	<0.005			<0.005		<0.005	
1/26/2017					<0.005		
5/9/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
6/27/2017		<0.005	<0.005	<0.005	<0.005		<0.005
6/28/2017	<0.005					<0.005	
2/27/2018		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/28/2018	<0.005						
6/4/2018						<0.005	
6/5/2018		<0.005	<0.005	<0.005	<0.005		<0.005
6/6/2018	<0.005						
11/6/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/26/2019		<0.005	<0.005	<0.005	<0.005		<0.005
3/27/2019	<0.005					<0.005	
9/9/2019						<0.005	
9/10/2019	<0.005						
9/11/2019		<0.005	<0.005	<0.005	<0.005		<0.005
4/20/2020						<0.005	
4/21/2020		<0.005	<0.005	<0.005	<0.005		<0.005
4/22/2020	<0.005						
8/11/2020	<0.005						
8/17/2020						<0.005	
8/18/2020		<0.005	<0.005	<0.005	<0.005		<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.005	<0.005	<0.005				
9/19/2016	<0.005	<0.005	<0.005				
10/11/2016	<0.005	<0.005	<0.005				
11/14/2016	<0.005	<0.005	<0.005				
1/3/2017	<0.005	<0.005	<0.005				
1/24/2017	<0.005	<0.005					
1/25/2017			<0.005				
5/10/2017	<0.005	<0.005	<0.005				
6/27/2017	<0.005	<0.005	<0.005				
2/27/2018	<0.005	<0.005	<0.005				
6/5/2018	<0.005	<0.005	<0.005				
11/5/2018		<0.005					
11/6/2018	<0.005		<0.005				
1/15/2019							<0.005
1/16/2019					<0.005		
1/17/2019				<0.005			
1/30/2019						<0.005	
3/27/2019	<0.005	<0.005	<0.005				
9/10/2019				<0.005			
9/11/2019	<0.005	<0.005	<0.005		<0.005	<0.005	
4/21/2020					<0.005		
4/22/2020	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
8/11/2020	<0.005					<0.005	
8/12/2020		<0.005	<0.005	<0.005			
8/18/2020					<0.005		
8/19/2020							<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	<0.005						
1/15/2019		<0.005	<0.005	<0.005	<0.005		
1/16/2019						<0.005	<0.005
9/10/2019			<0.005				
9/11/2019	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
4/20/2020			<0.005				<0.005
4/21/2020					<0.005	<0.005	
4/22/2020	<0.005	<0.005					
4/29/2020				<0.005			
8/11/2020		<0.005					
8/12/2020			<0.005				<0.005
8/18/2020				<0.005			
8/19/2020	<0.005				<0.005	<0.005	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
2/17/2016				<0.005			
4/12/2016				<0.005			
5/31/2016				<0.005			
8/17/2016				<0.005			
10/11/2016				<0.005			
1/24/2017				<0.005			
5/9/2017				<0.005			
6/28/2017				<0.005			
2/27/2018				<0.005			
6/5/2018				<0.005			
11/6/2018				<0.005			
3/27/2019				<0.005			
9/11/2019				<0.005			
4/20/2020	<0.005				<0.005	<0.005	<0.005
4/21/2020		<0.005	<0.005	<0.005			
8/11/2020					<0.005		
8/12/2020				<0.005		<0.005	<0.005
8/17/2020	<0.005	<0.005					
8/19/2020			<0.005				

Time Series

Constituent: Lead (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.005	<0.005			
2/17/2016	<0.005	<0.005					
4/12/2016	<0.005						
4/13/2016		<0.005	<0.005	<0.005			
5/31/2016	<0.005	<0.005					
6/1/2016			<0.005	<0.005			
8/17/2016	<0.005	<0.005	<0.005	<0.005			
10/11/2016	<0.005						
10/12/2016		<0.005	<0.005	<0.005			
1/24/2017	<0.005						
1/25/2017		<0.005	<0.005	<0.005			
5/10/2017	<0.005	<0.005	<0.005	<0.005			
6/28/2017	<0.005	<0.005	<0.005	<0.005			
2/27/2018	<0.005	<0.005	<0.005	<0.005			
6/5/2018	<0.005	<0.005	<0.005	<0.005			
11/7/2018	<0.005	<0.005	<0.005	<0.005			
3/26/2019	<0.005	<0.005	<0.005	<0.005			
9/10/2019	<0.005	<0.005	<0.005	<0.005	<0.005		
4/20/2020					<0.005		
4/21/2020	<0.005	<0.005	<0.005	<0.005			
7/6/2020						<0.005	<0.005
8/11/2020						<0.005	<0.005
8/17/2020					<0.005		
8/18/2020				<0.005			
8/19/2020	<0.005	<0.005	<0.005				

Time Series

Constituent: Lead (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.005	<0.005	0.0026 (J)	<0.005
8/11/2020	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		0.115		0.502	0.51	0.632	
2/17/2016	<0.02		0.0777				0.806
4/12/2016					0.508	0.615	0.719
4/13/2016	<0.02	0.135	0.073	0.544			
5/31/2016		0.127	0.0721	0.47	0.454	0.613	0.735
6/1/2016	<0.02						
8/15/2016	<0.02						
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	
1/24/2017	<0.02						0.689
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
6/27/2017	<0.02						0.558
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
6/4/2018	<0.02						
6/5/2018		0.104	0.102				0.492
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
11/7/2018		0.11				0.604	
3/26/2019				0.0532	0.123		0.57
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
9/11/2019					0.246		
4/20/2020					0.201		0.604
4/21/2020	<0.02			0.166		0.672	
4/22/2020		0.123	0.126				
8/11/2020						0.712	
8/12/2020							0.594
8/17/2020	<0.02						
8/18/2020		0.124	0.109	0.0892	0.42		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					0.513		
2/17/2016	0.626	0.612	0.67	<0.02		<0.02	<0.02
4/12/2016			0.655			<0.02	<0.02
4/13/2016	0.594	0.694		<0.02	0.532		
6/1/2016	0.556	0.675	0.666	<0.02	0.513	<0.02	<0.02
8/15/2016	0.557	0.571	0.558	<0.02			
8/16/2016					0.301	<0.02	<0.02
10/11/2016				<0.02		<0.02	<0.02
10/12/2016	0.589	0.622	0.56		0.22		
1/24/2017	0.522	0.752	0.374	<0.02		<0.02	<0.02
1/25/2017					0.107		
5/9/2017				<0.02	0.113	<0.02	
5/10/2017	0.552	0.622	0.443				<0.02
6/27/2017	0.523	0.597	0.451			<0.02	
6/28/2017				<0.02	0.0962		<0.02
2/27/2018				<0.02		<0.02	<0.02
2/28/2018	0.544	0.73	0.343		0.0594		
6/4/2018				<0.02			
6/5/2018	0.49	0.531	0.353			<0.02	<0.02
6/6/2018					0.0469 (J)		
11/5/2018					0.0902		
11/6/2018	0.54	0.583	0.369	<0.02			
11/7/2018						<0.02	<0.02
3/26/2019	0.558	0.595	0.378		0.0531	<0.02	<0.02
3/27/2019				<0.02			
9/9/2019		0.571	0.408	<0.02			
9/10/2019	0.581				0.0862	<0.02	<0.02
4/20/2020	0.62						
4/21/2020		0.629	0.386	<0.02	0.0782	<0.02	
4/22/2020							<0.02
8/11/2020	0.599	0.552					
8/12/2020			0.326			<0.02	<0.02
8/17/2020				<0.02			
8/18/2020					0.0718		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.02					<0.02	
4/12/2016	<0.02					<0.02	
6/1/2016	<0.02					<0.02	
8/15/2016						<0.02	
8/16/2016					<0.02		<0.02
8/17/2016	<0.02	<0.02	<0.02	<0.02			
9/20/2016		<0.02	<0.02	<0.02	<0.02		<0.02
10/11/2016	<0.02				<0.02	<0.02	<0.02
10/12/2016		<0.02	<0.02	<0.02			
11/15/2016		<0.02	<0.02	<0.02	<0.02		<0.02
1/4/2017		<0.02	<0.02	<0.02	<0.02		<0.02
1/23/2017		<0.02	<0.02				<0.02
1/24/2017	<0.02			<0.02		<0.02	
1/26/2017					<0.02		
5/9/2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
6/27/2017		<0.02	<0.02	<0.02	<0.02		<0.02
6/28/2017	<0.02					<0.02	
2/27/2018		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2/28/2018	<0.02						
6/4/2018						<0.02	
6/5/2018		<0.02	<0.02	<0.02	<0.02		<0.02
6/6/2018	<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		<0.02
3/27/2019	<0.02					<0.02	
9/9/2019						<0.02	
9/10/2019	<0.02						
9/11/2019		<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		<0.02
4/22/2020	<0.02						
8/11/2020	<0.02						
8/17/2020						<0.02	
8/18/2020		<0.02	<0.02	<0.02	<0.02		<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.02	<0.02	<0.02				
9/19/2016	<0.02	<0.02	<0.02				
10/11/2016	<0.02	<0.02	<0.02				
11/14/2016	<0.02	<0.02	<0.02				
1/3/2017	<0.02	<0.02	<0.02				
1/24/2017	<0.02	<0.02					
1/25/2017			<0.02				
5/10/2017	<0.02	<0.02	<0.02				
6/27/2017	<0.02	<0.02	<0.02				
2/27/2018	<0.02	<0.02	<0.02				
6/5/2018	<0.02	<0.02	<0.02				
11/5/2018		<0.02					
11/6/2018	<0.02		<0.02				
1/15/2019							0.0141 (J)
1/16/2019					<0.02		
1/17/2019				<0.02			
1/30/2019						<0.02	
3/27/2019	<0.02	<0.02	<0.02				
9/10/2019				<0.02			
9/11/2019	<0.02	<0.02	<0.02		<0.02	<0.02	
4/21/2020					<0.02		
4/22/2020	<0.02	<0.02	<0.02	<0.02		<0.02	0.0134 (J)
8/11/2020	<0.02					<0.02	
8/12/2020		<0.02	<0.02	<0.02			
8/18/2020					<0.02		
8/19/2020							0.0108 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	<0.02						
1/15/2019		0.399	0.407	0.0411 (NONE)	0.0146 (J)		
1/16/2019						0.178	<0.02
9/10/2019			0.545				
9/11/2019	<0.02	0.45		0.0396	0.0169 (J)	0.254	<0.02
4/20/2020			0.628				<0.02
4/21/2020					0.0174 (J)	0.376	
4/22/2020	<0.02	0.41					
4/29/2020				0.041			
8/11/2020		0.47					
8/12/2020			0.669				<0.02
8/18/2020				0.039			
8/19/2020	<0.02				0.0168 (J)	0.336	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	0.148				0.0107 (J)	0.101	<0.02
4/21/2020		0.0924	0.0733	0.13			
8/11/2020					0.0125 (J)		
8/12/2020				0.132		0.105	<0.02
8/17/2020	0.212	0.108					
8/19/2020			0.0511				

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.02	0.0359 (J)			
2/17/2016	<0.02	<0.02					
4/12/2016	<0.02						
4/13/2016		<0.02	<0.02	0.0276 (J)			
5/31/2016	<0.02	<0.02					
6/1/2016			0.0101 (J)	0.0296 (J)			
8/17/2016	<0.02	<0.02	0.0143 (J)	0.0398 (J)			
10/11/2016	<0.02						
10/12/2016		<0.02	0.0166 (J)	0.0433 (J)			
1/24/2017	0.0591						
1/25/2017		<0.02	0.0272 (J)	0.0366 (J)			
5/10/2017	0.0519	<0.02	0.0436 (J)	0.039 (J)			
6/28/2017	0.0403 (J)	<0.02	0.0401 (J)	0.0345 (J)			
2/27/2018	0.0201 (J)	<0.02	0.0309 (J)	0.0349 (J)			
6/5/2018	0.0218 (J)	<0.02	0.0286 (J)	0.0338 (J)			
11/7/2018	0.0141 (J)	<0.02	0.0371	0.0616			
3/26/2019	0.0192 (J)	<0.02	0.0537	0.0931			
9/10/2019	0.0267	<0.02	0.0928	0.128	<0.02		
4/20/2020					<0.02		
4/21/2020	0.0518	<0.02	0.0582	0.0693			
7/6/2020						<0.02	0.089
8/11/2020						<0.02	0.097
8/17/2020					<0.02		
8/18/2020				0.0591			
8/19/2020	0.0197 (J)	<0.02	0.0511				

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	0.0979	0.0527	<0.02	<0.02
8/11/2020	0.0825	0.0457	<0.02	<0.02

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		<0.0005		<0.0005	<0.0005	<0.0005	
2/17/2016	<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			
5/31/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<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	
10/11/2016	<0.0005						<0.0005
10/12/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1/24/2017	<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
6/27/2017	<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
6/4/2018	<0.0005						
6/5/2018		<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
11/7/2018		<0.0005				<0.0005	
3/26/2019				<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
9/11/2019					<0.0005		
4/20/2020					<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	
8/12/2020							<0.0005
8/17/2020	<0.0005						
8/18/2020		<0.0005	<0.0005	<0.0005	<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (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
4/13/2016	<0.0005	<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	<0.0005			
8/16/2016					<0.0005	<0.0005	<0.0005
10/11/2016				<0.0005		<0.0005	<0.0005
10/12/2016	<0.0005	<0.0005	<0.0005		<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	
5/10/2017	<0.0005	<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
2/27/2018				<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		
11/5/2018					<0.0005		
11/6/2018	<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			
9/9/2019		<0.0005	<0.0005	<0.0005			
9/10/2019	<0.0005				<0.0005	<0.0005	<0.0005
4/20/2020	<0.0005						
4/21/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
4/22/2020							<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		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.0005					<0.0005	
4/12/2016	<0.0005					<0.0005	
6/1/2016	<0.0005					<0.0005	
8/15/2016						<0.0005	
8/16/2016					<0.0005		<0.0005
8/17/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/20/2016		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
10/11/2016	<0.0005				<0.0005	<0.0005	<0.0005
10/12/2016		<0.0005	<0.0005	<0.0005			
11/15/2016		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
1/4/2017		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
1/23/2017		<0.0005	<0.0005				<0.0005
1/24/2017	<0.0005			<0.0005		<0.0005	
1/26/2017					<0.0005		
5/9/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/27/2017		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
6/28/2017	<0.0005					<0.0005	
2/27/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/28/2018	<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						
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		<0.0005
3/27/2019	<0.0005					<0.0005	
9/9/2019						<0.0005	
9/10/2019	<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	<0.0005	<0.0005	<0.0005		<0.0005
4/22/2020	<0.0005						
8/11/2020	<0.0005						
8/17/2020						<0.0005	
8/18/2020		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.0005	<0.0005	<0.0005				
9/19/2016	<0.0005	<0.0005	<0.0005				
10/11/2016	<0.0005	<0.0005	<0.0005				
11/14/2016	<0.0005	<0.0005	<0.0005				
1/3/2017	<0.0005	<0.0005	<0.0005				
1/24/2017	<0.0005	<0.0005					
1/25/2017			<0.0005				
5/10/2017	<0.0005	<0.0005	<0.0005				
6/27/2017	<0.0005	<0.0005	<0.0005				
2/27/2018	<0.0005	<0.0005	<0.0005				
6/5/2018	<0.0005	<0.0005	<0.0005				
11/5/2018		<0.0005					
11/6/2018	<0.0005		<0.0005				
1/15/2019							<0.0005
1/16/2019					<0.0005		
1/17/2019				<0.0005			
1/30/2019						<0.0005	
3/27/2019	<0.0005	<0.0005	<0.0005				
9/10/2019				<0.0005			
9/11/2019	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	
4/21/2020					<0.0005		
4/22/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/11/2020	<0.0005					<0.0005	
8/12/2020		<0.0005	<0.0005	<0.0005			
8/18/2020					<0.0005		
8/19/2020							<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	<0.0005						
1/15/2019		<0.0005	<0.0005	<0.0005	<0.0005		
1/16/2019						<0.0005	<0.0005
9/10/2019			<0.0005				
9/11/2019	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
4/20/2020			<0.0005				<0.0005
4/21/2020					<0.0005	<0.0005	
4/22/2020	<0.0005	<0.0005					
4/29/2020				<0.0005			
8/11/2020		<0.0005					
8/12/2020			<0.0005				<0.0005
8/18/2020				<0.0005			
8/19/2020	<0.0005				<0.0005	<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	<0.0005
4/21/2020		<0.0005	<0.0005	<0.0005			
8/11/2020					<0.0005		
8/12/2020				<0.0005		<0.0005	<0.0005
8/17/2020	<0.0005	<0.0005					
8/19/2020			<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.0005	<0.0005			
2/17/2016	<0.0005	<0.0005					
4/12/2016	<0.0005						
4/13/2016		<0.0005	<0.0005	<0.0005			
5/31/2016	<0.0005	<0.0005					
6/1/2016			<0.0005	<0.0005			
8/17/2016	<0.0005	<0.0005	<0.0005	<0.0005			
10/11/2016	<0.0005						
10/12/2016		<0.0005	<0.0005	<0.0005			
1/24/2017	<0.0005						
1/25/2017		<0.0005	<0.0005	<0.0005			
5/10/2017	<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			
6/5/2018	<0.0005	<0.0005	<0.0005	<0.0005			
11/7/2018	<0.0005	<0.0005	<0.0005	<0.0005			
3/26/2019	<0.0005	<0.0005	<0.0005	<0.0005			
9/10/2019	<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			
7/6/2020						<0.0005	<0.0005
8/11/2020						<0.0005	<0.0005
8/17/2020					<0.0005		
8/18/2020				<0.0005			
8/19/2020	<0.0005	<0.0005	<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.0005	<0.0005	<0.0005	<0.0005
8/11/2020	<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		0.0101		0.107	0.0769	0.00839 (J)	
2/17/2016	<0.01		0.00651 (J)				<0.01
4/12/2016					0.0442	0.00918 (J)	<0.01
4/13/2016	<0.01	0.0127	0.00646 (J)	0.101			
5/31/2016		0.0106	0.00546 (J)	0.0915	0.0481	0.00877 (J)	<0.01
6/1/2016	<0.01						
8/15/2016	<0.01						
8/16/2016		0.00991 (J)	0.00582 (J)	0.127	0.0956		<0.01
8/17/2016						0.0236	
10/11/2016	<0.01						<0.01
10/12/2016		0.00919 (J)	0.00589 (J)	0.11	0.114	0.0289	
1/24/2017	<0.01						<0.01
1/25/2017		0.0101	0.00556 (J)	0.0741	0.078	0.00501 (J)	
5/9/2017	<0.01		0.0058 (J)	0.0883	0.0484	0.0108	
5/10/2017		0.00984 (J)					<0.01
6/27/2017	<0.01						<0.01
6/28/2017		0.0102	0.00616 (J)	0.109	0.0598	0.00752 (J)	
2/27/2018	<0.01	0.011	0.00962 (J)			0.0121	
2/28/2018				0.0903	0.0346		<0.01
6/4/2018	<0.01						
6/5/2018		0.00752 (J)	0.00984 (J)				<0.01
6/6/2018				0.0757	0.0253	0.0101	
11/5/2018			0.00944 (J)	0.0906	0.044		
11/6/2018	<0.01						<0.01
11/7/2018		0.00748 (J)				0.0155	
3/26/2019				0.11	0.0262		<0.01
3/27/2019	<0.01	0.00778 (J)	0.0151			0.0167	
9/10/2019	<0.01	0.00757 (J)	0.0205	0.134		0.0125	<0.01
9/11/2019					0.0226		
4/20/2020					0.0924		<0.01
4/21/2020	<0.01			0.0947		0.0141	
4/22/2020		0.00747 (J)	0.0147				
8/11/2020						0.0117	
8/12/2020							<0.01
8/17/2020	<0.01						
8/18/2020		0.00808 (J)	0.0146	0.0938	0.145		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					0.0433		
2/17/2016	<0.01	0.066	<0.01	<0.01		<0.01	<0.01
4/12/2016			<0.01			<0.01	<0.01
4/13/2016	<0.01	0.0835		<0.01	0.0567		
6/1/2016	<0.01	0.0835	<0.01	<0.01	0.0565	<0.01	<0.01
8/15/2016	<0.01	0.0838	<0.01	<0.01			
8/16/2016					0.0791	<0.01	<0.01
10/11/2016				<0.01		<0.01	<0.01
10/12/2016	<0.01	0.111	<0.01		0.0767		
1/24/2017	<0.01	0.111	<0.01	<0.01		<0.01	<0.01
1/25/2017					0.0398		
5/9/2017				<0.01	0.0467	<0.01	
5/10/2017	<0.01	0.0566	<0.01				<0.01
6/27/2017	<0.01	0.0702	<0.01			<0.01	
6/28/2017				<0.01	0.0833		<0.01
2/27/2018				<0.01		<0.01	<0.01
2/28/2018	<0.01	0.0957	<0.01		0.0643		
6/4/2018				<0.01			
6/5/2018	<0.01	0.0363	<0.01			<0.01	<0.01
6/6/2018					0.0579		
11/5/2018					0.0548		
11/6/2018	<0.01	0.0418	<0.01	<0.01			
11/7/2018						<0.01	<0.01
3/26/2019	<0.01	0.062	<0.01		0.071	<0.01	<0.01
3/27/2019				<0.01			
9/9/2019		0.0681	<0.01	<0.01			
9/10/2019	<0.01				0.0609	<0.01	<0.01
4/20/2020	<0.01						
4/21/2020		0.0694	<0.01	<0.01	0.0562	<0.01	
4/22/2020							<0.01
8/11/2020	<0.01	0.0506					
8/12/2020			<0.01			<0.01	<0.01
8/17/2020				<0.01			
8/18/2020					0.0505		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.01					<0.01	
4/12/2016	<0.01					<0.01	
6/1/2016	<0.01					<0.01	
8/15/2016						<0.01	
8/16/2016					<0.01		<0.01
8/17/2016	<0.01	<0.01	<0.01	<0.01			
9/20/2016		<0.01	<0.01	<0.01	<0.01		<0.01
10/11/2016	<0.01				<0.01	<0.01	<0.01
10/12/2016		<0.01	<0.01	<0.01			
11/15/2016		<0.01	<0.01	<0.01	0.00308 (J)		<0.01
1/4/2017		<0.01	<0.01	<0.01	<0.01		<0.01
1/23/2017		<0.01	<0.01				<0.01
1/24/2017	<0.01			<0.01		<0.01	
1/26/2017					<0.01		
5/9/2017	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
6/27/2017		<0.01	<0.01	<0.01	<0.01		<0.01
6/28/2017	<0.01					<0.01	
2/27/2018		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/28/2018	<0.01						
6/4/2018						<0.01	
6/5/2018		<0.01	<0.01	<0.01	<0.01		<0.01
6/6/2018	<0.01						
11/6/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/26/2019		<0.01	<0.01	<0.01	<0.01		<0.01
3/27/2019	<0.01					<0.01	
9/9/2019						<0.01	
9/10/2019	<0.01						
9/11/2019		<0.01	<0.01	<0.01	<0.01		<0.01
4/20/2020						<0.01	
4/21/2020		<0.01	<0.01	<0.01	<0.01		<0.01
4/22/2020	<0.01						
8/11/2020	<0.01						
8/17/2020						<0.01	
8/18/2020		<0.01	<0.01	<0.01	<0.01		<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	0.00201 (J)	<0.01	<0.01				
9/19/2016	<0.01	<0.01	<0.01				
10/11/2016	<0.01	<0.01	<0.01				
11/14/2016	<0.01	<0.01	<0.01				
1/3/2017	<0.01	<0.01	<0.01				
1/24/2017	<0.01	<0.01					
1/25/2017			<0.01				
5/10/2017	<0.01	<0.01	<0.01				
6/27/2017	<0.01	<0.01	<0.01				
2/27/2018	<0.01	<0.01	<0.01				
6/5/2018	<0.01	<0.01	<0.01				
11/5/2018		<0.01					
11/6/2018	<0.01		<0.01				
1/15/2019							<0.01
1/16/2019					<0.01		
1/17/2019				<0.01			
1/30/2019						<0.01	
3/27/2019	<0.01	<0.01	<0.01				
9/10/2019				<0.01			
9/11/2019	<0.01	<0.01	<0.01		<0.01	<0.01	
4/21/2020					<0.01		
4/22/2020	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
8/11/2020	<0.01					<0.01	
8/12/2020		<0.01	<0.01	<0.01			
8/18/2020					<0.01		
8/19/2020							<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	0.00574 (J)						
1/15/2019		0.00419 (J)	<0.01	<0.01	<0.01		
1/16/2019						<0.01	<0.01
9/10/2019			<0.01				
9/11/2019	0.00203 (J)	0.00338 (J)		<0.01	<0.01	<0.01	<0.01
4/20/2020			<0.01				<0.01
4/21/2020					<0.01	<0.01	
4/22/2020	<0.01	0.00246 (J)					
4/29/2020				<0.01			
8/11/2020		0.00401 (J)					
8/12/2020			<0.01				<0.01
8/18/2020				<0.01			
8/19/2020	<0.01				<0.01	<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	0.0703				<0.01	0.00223 (J)	<0.01
4/21/2020		<0.01	<0.01	0.00255 (J)			
8/11/2020					<0.01		
8/12/2020				0.00292 (J)		0.00278 (J)	<0.01
8/17/2020	0.0737	<0.01					
8/19/2020			<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.01	<0.01			
2/17/2016	<0.01	<0.01					
4/12/2016	<0.01						
4/13/2016		<0.01	<0.01	<0.01			
5/31/2016	<0.01	<0.01					
6/1/2016			<0.01	<0.01			
8/17/2016	<0.01	<0.01	<0.01	<0.01			
10/11/2016	<0.01						
10/12/2016		<0.01	<0.01	<0.01			
1/24/2017	<0.01						
1/25/2017		<0.01	<0.01	<0.01			
5/10/2017	<0.01	<0.01	<0.01	<0.01			
6/28/2017	<0.01	<0.01	<0.01	<0.01			
2/27/2018	<0.01	<0.01	<0.01	<0.01			
6/5/2018	<0.01	<0.01	<0.01	<0.01			
11/7/2018	<0.01	<0.01	<0.01	<0.01			
3/26/2019	<0.01	<0.01	<0.01	<0.01			
9/10/2019	<0.01	<0.01	<0.01	<0.01	<0.01		
4/20/2020					<0.01		
4/21/2020	<0.01	<0.01	<0.01	<0.01			
7/6/2020						<0.01	0.0661
8/11/2020						<0.01	0.0443
8/17/2020					<0.01		
8/18/2020				<0.01			
8/19/2020	<0.01	<0.01	<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.01	<0.01	<0.01	<0.01
8/11/2020	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: pH (SU) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		6.29		6.84	6.4	6.21	
2/17/2016	5.8		6.04				6.02
4/12/2016					6.41	6.37	6.17
4/13/2016	5.85	6.21	6.07	7.03			
5/31/2016		6.45	6.03	6.94	6.22	6.42	6.15
6/1/2016	5.92						
8/15/2016	5.99						
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	
11/1/2016					6.55	6.33	6.15
1/24/2017	5.92						6.11
1/25/2017		6.47	5.94	6.87	6.76	6.37	
3/14/2017	5.96		6.08			6.3	6.09
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
6/27/2017	5.86						6.09
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
2/27/2018	5.92	6.59	6.21			6.28	
2/28/2018				6.94	6.72		6.11
6/4/2018	5.89						
6/5/2018		6.52	6.27				6.05
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	
11/5/2018			6.26	6.81	6.69		
11/6/2018	5.95						6.09
11/7/2018		6.51				6.42	
3/26/2019				6.95	6.54		6.1
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
9/11/2019					6.22		
4/20/2020					6.68		6.16
4/21/2020	5.72			6.96		6.31	
4/22/2020		6.44	6.26				
8/11/2020						6.02	
8/12/2020							6.1
8/17/2020	5.54						
8/18/2020		6.33	6	6.98	6.76		

Time Series

Constituent: pH (SU) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					7.15		
2/17/2016	6.18	6.32	6.23	6.01		6.8	5.39
4/12/2016			6.3			6.54	5.29
4/13/2016	6.28	6.44		6.17	7.1		
6/1/2016	6.36	6.24	6.24	6.18	6.76	6.49	5.39
8/15/2016	6.37	6.34	6.25	6.12			
8/16/2016					6.99	6.57	5.51
10/11/2016				6.09		6.54	5.44
10/12/2016	6.32	6.42	6.26		6.89		
11/2/2016	6.33	6.48	6.3			6.54	5.49
1/24/2017	6.29	6.53	6.3	6.04		6.42	5.44
1/25/2017					6.84		
3/14/2017	6.27	6.43	6.31	6.11		6.59	5.48
3/15/2017					6.78		
5/9/2017				6.1	6.83	6.42	
5/10/2017	6.3	6.33	6.34				5.43
6/27/2017	6.28	6.38	6.32			6.44	
6/28/2017				6.09	6.98		5.49
8/29/2017					6.8	6.43	5.46
8/30/2017	6.34	6.31	6.38	6.07			
2/27/2018				6.09		6.49	5.48
2/28/2018	6.33	6.57	6.31		6.87		
6/4/2018				6.07			
6/5/2018	6.29	6.21	6.16			6.43	5.31
6/6/2018					6.94		
9/10/2018				6	6.74		
9/11/2018						6.35	5.36
9/12/2018	6.36	6.43	6.29				
11/5/2018					6.66		
11/6/2018	6.37	6.47	6.31	6.04			
11/7/2018						6.37	5.34
3/26/2019	6.34	6.52	6.3		6.84	6.46	5.32
3/27/2019				6.06			
9/9/2019		5.84	6.28	6.13			
9/10/2019	6.35				6.58	5.85	4.9
4/20/2020	6.43						
4/21/2020		6.61	6.31	5.99	6.81	6.26	
4/22/2020							5.3
8/11/2020	6.7	6.71					
8/12/2020			6.62			6.03	5.04
8/17/2020				5.91			
8/18/2020					6.31		

Time Series

Constituent: pH (SU) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	5.36					6.29	
4/12/2016	5.31					6.33	
6/1/2016	5.35					6.4	
8/15/2016						6.36	
8/16/2016					6.21		5.39
8/17/2016	5.38	5.85	5.47	6.15			
9/20/2016		5.82	5.22	4.99	6.05		5.37
10/11/2016	5.31				6.2	6.38	5.39
10/12/2016		5.76	5.1	4.88			
10/31/2016				4.87	6.61		5.36
11/2/2016	5.39						
11/15/2016		5.79	5.07	4.81	6.64		5.33
11/29/2016		5.73	5.1	4.84	6.39		5.33
1/4/2017		5.69	5.3	4.88	6.06		5.49
1/23/2017		5.45	5.12				5.48
1/24/2017	5.29			5.4		6.34	
1/26/2017					6.02		
3/13/2017		4.8			5.68		
3/14/2017	5.19		4.74	5.13		6.42	5.17
5/9/2017	5.29	4.82	4.83	4.96	5.05	6.35	5.11
6/27/2017		5.27	4.87	5.34	4.9		5.29
6/28/2017	5.27					6.32	
8/29/2017	5.27	5.28	4.71				
8/30/2017				4.69	4.73	6.32	5.09
2/27/2018		5.11	4.96	4.91	4.87	6.39	5.25
2/28/2018	5.28						
6/4/2018						6.4	
6/5/2018		5.24	5	4.87	4.89		5.12
6/6/2018	5.21						
9/11/2018		5.28	4.94	4.65	4.88		5.19
9/12/2018	5.23					6.35	
11/6/2018	5.28	5.54	4.9	4.67	4.86	6.34	5.12
3/26/2019		5.4	4.96	4.92	4.97		5.16
3/27/2019	5.27					6.44	
9/9/2019						6.22	
9/10/2019	5.15						
9/11/2019		5.53	4.85	4.33	3.96		4.11
4/20/2020						6.4	
4/21/2020		5.3	4.29	4.07	3.9		4.44
4/22/2020	5.26						
8/11/2020	4.81						
8/17/2020						5.85	
8/18/2020		4.79	4.75	4.59	4.22		4.76

Time Series

Constituent: pH (SU) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	7.13	6	6.34				
9/19/2016	6.94	6	6.11				
10/11/2016	6.82	6.02	5.99				
11/1/2016	6.71	5.97	5.84				
11/14/2016	6.57	5.98	5.83				
11/28/2016	6.57	6	5.79				
1/3/2017	6.56	6.03	5.39				
1/24/2017	6.41	5.9					
1/25/2017			5.09				
3/14/2017	6.37	6.07	4.99				
5/10/2017	6.41	6	4.63				
5/31/2017		6.02					
6/27/2017	6.14	6.05	4.76				
8/30/2017	6.08	6.13	4.85				
2/27/2018	5.99	6.1	4.69				
6/5/2018	5.93	6.05	4.62				
9/11/2018	5.86	6.07	4.79				
11/5/2018		6.01					
11/6/2018	5.89		4.62				
1/15/2019							5.88
1/16/2019					5.99		
1/17/2019				5.65			
1/30/2019						7.87	
3/27/2019	5.95	6.15	4.68				
9/10/2019				4.87			
9/11/2019	5.85	5.87	4.57		5.6	7.2	
4/21/2020					6.54		
4/22/2020	5.75	5.92	4.71	5.45		7.72	6.23
8/11/2020	5.63					7.69	
8/12/2020		5.84	4.65	4.78			
8/18/2020					6.03		
8/19/2020							5.95

Time Series

Constituent: pH (SU) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	6.56						
1/15/2019		6.4	5.7	6.71	6.29		
1/16/2019						6.48	6.39
9/10/2019			5.61				
9/11/2019	6.55	6.17		5.96	6.2	6.52	6.11
4/20/2020			5.63				6.11
4/21/2020					6.01	6.18	
4/22/2020	6.66	6.42					
4/29/2020				6.37			
8/11/2020		6.7					
8/12/2020			5.83				6.27
8/18/2020				5.93			
8/19/2020	6.57				6.27	6.18	

Time Series

Constituent: pH (SU) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	7.14				6.17	6.58	6.12
4/21/2020		6.5	6.28	6.5			
8/11/2020					5.8		
8/12/2020				6.36		6.67	6.48
8/17/2020	6.94	6.24					
8/19/2020			6.14				

Time Series

Constituent: pH (SU) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			6.16	6.5			
2/17/2016	6.46	6.45					
4/12/2016	6.45						
4/13/2016		6.49	6.29	6.32			
5/31/2016	6.51	6.43					
6/1/2016			6.33	6.43			
8/17/2016	6.54	6.43	6.27	6.46			
10/11/2016	6.53						
10/12/2016		6.46	6.3	6.53			
1/24/2017	6.44						
1/25/2017		6.43	6.27	6.45			
3/14/2017	6.4	6.41					
3/15/2017			6.27	6.39			
5/10/2017	6.4	6.41	6.25	6.39			
6/28/2017	6.46	6.46	6.25	6.4			
8/29/2017	6.47	6.46	6.32	6.47			
2/27/2018	6.53	6.45	6.36	6.54			
6/5/2018	6.49	6.36	6.3	6.47			
9/11/2018	6.48	6.38	6.36	6.53			
9/12/2018					6.13		
11/7/2018	6.48	6.37	6.31	6.49			
3/26/2019	6.54	6.39	6.32	6.47			
9/10/2019	6.55	6.39	6.31	6.43	5.79		
4/20/2020					5.99		
4/21/2020	6.54	6.39	6.06	6.25			
7/6/2020						6.07	6.69
8/11/2020						6.08	6.38
8/17/2020					5.94		
8/18/2020				6.21			
8/19/2020	6.49	6.14	6.06				

Time Series

Constituent: pH (SU) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	6.42	6.99	5.99	4.47
8/11/2020	6.24	6.25	6.16	5.1

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		<0.01		<0.01	0.0227	<0.01	
2/17/2016	0.00277 (J)		<0.01				<0.01
4/12/2016					0.0701	<0.01	<0.01
4/13/2016	<0.01	<0.01	<0.01	<0.01			
5/31/2016		<0.01	<0.01	<0.01	0.0129	<0.01	<0.01
6/1/2016	<0.01						
8/15/2016	<0.01						
8/16/2016		<0.01	<0.01	<0.01	0.0208		<0.01
8/17/2016						<0.01	
10/11/2016	<0.01						<0.01
10/12/2016		<0.01	<0.01	<0.01	0.00431 (J)	<0.01	
1/24/2017	<0.01						<0.01
1/25/2017		<0.01	<0.01	<0.01	0.00779 (J)	<0.01	
5/9/2017	<0.01		<0.01	<0.01	0.00905 (J)	<0.01	
5/10/2017		<0.01					<0.01
6/27/2017	0.00206 (J)						<0.01
6/28/2017		<0.01	<0.01	<0.01	0.0072 (J)	<0.01	
2/27/2018	0.00206 (J)	<0.01	<0.01			<0.01	
2/28/2018				<0.01	0.00826 (J)		<0.01
6/4/2018	<0.01						
6/5/2018		<0.01	<0.01				<0.01
6/6/2018				<0.01	0.00496 (J)	<0.01	
11/5/2018			<0.01	<0.01	<0.01		
11/6/2018	<0.01						<0.01
11/7/2018		<0.01				<0.01	
3/26/2019				<0.01	0.0239		<0.01
3/27/2019	<0.01	<0.01	<0.01			<0.01	
9/10/2019	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
9/11/2019					<0.01		
4/20/2020					0.0125		<0.01
4/21/2020	<0.01			<0.01		<0.01	
4/22/2020		<0.01	<0.01				
8/11/2020						<0.01	
8/12/2020							<0.01
8/17/2020	<0.01						
8/18/2020		<0.01	<0.01	<0.01	0.00416 (J)		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<0.01		
2/17/2016	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
4/12/2016			<0.01			0.00205 (J)	<0.01
4/13/2016	<0.01	<0.01		<0.01	<0.01		
6/1/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/15/2016	<0.01	<0.01	<0.01	<0.01			
8/16/2016					<0.01	<0.01	<0.01
10/11/2016				<0.01		<0.01	<0.01
10/12/2016	<0.01	<0.01	<0.01		<0.01		
1/24/2017	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
1/25/2017					<0.01		
5/9/2017				<0.01	<0.01	<0.01	
5/10/2017	<0.01	<0.01	<0.01				<0.01
6/27/2017	<0.01	<0.01	<0.01			<0.01	
6/28/2017				<0.01	<0.01		0.00268 (J)
2/27/2018				<0.01		<0.01	0.00281 (J)
2/28/2018	<0.01	<0.01	<0.01		<0.01		
6/4/2018				<0.01			
6/5/2018	<0.01	<0.01	<0.01			<0.01	0.00294 (J)
6/6/2018					<0.01		
11/5/2018					<0.01		
11/6/2018	<0.01	<0.01	<0.01	<0.01			
11/7/2018						<0.01	<0.01
3/26/2019	<0.01	<0.01	<0.01		<0.01	<0.01	0.00208 (J)
3/27/2019				<0.01			
9/9/2019		<0.01	<0.01	<0.01			
9/10/2019	<0.01				<0.01	<0.01	<0.01
4/20/2020	<0.01						
4/21/2020		<0.01	<0.01	<0.01	<0.01	<0.01	
4/22/2020							<0.01
8/11/2020	<0.01	<0.01					
8/12/2020			<0.01			<0.01	<0.01
8/17/2020				<0.01			
8/18/2020					<0.01		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	<0.01					<0.01	
4/12/2016	<0.01					<0.01	
6/1/2016	<0.01					<0.01	
8/15/2016						<0.01	
8/16/2016					<0.01		<0.01
8/17/2016	<0.01	<0.01	<0.01	<0.01			
9/20/2016		<0.01	<0.01	<0.01	<0.01		<0.01
10/11/2016	<0.01				<0.01	<0.01	<0.01
10/12/2016		<0.01	<0.01	<0.01			
11/15/2016		<0.01	<0.01	<0.01	<0.01		<0.01
1/4/2017		<0.01	<0.01	<0.01	<0.01		<0.01
1/23/2017		0.00247 (J)	<0.01				<0.01
1/24/2017	<0.01			<0.01		<0.01	
1/26/2017					<0.01		
5/9/2017	<0.01	0.0072 (J)	<0.01	<0.01	<0.01	<0.01	<0.01
6/27/2017		0.00443 (J)	<0.01	<0.01	<0.01		<0.01
6/28/2017	<0.01					<0.01	
2/27/2018		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/28/2018	<0.01						
6/4/2018						<0.01	
6/5/2018		<0.01	<0.01	<0.01	<0.01		<0.01
6/6/2018	<0.01						
11/6/2018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/26/2019		<0.01	<0.01	<0.01	<0.01		<0.01
3/27/2019	<0.01					<0.01	
9/9/2019						<0.01	
9/10/2019	<0.01						
9/11/2019		<0.01	<0.01	<0.01	<0.01		<0.01
4/20/2020						<0.01	
4/21/2020		<0.01	<0.01	<0.01	<0.01		<0.01
4/22/2020	<0.01						
8/11/2020	<0.01						
8/17/2020						<0.01	
8/18/2020		<0.01	<0.01	<0.01	<0.01		<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.01	<0.01	<0.01				
9/19/2016	<0.01	<0.01	<0.01				
10/11/2016	<0.01	<0.01	<0.01				
11/14/2016	<0.01	<0.01	<0.01				
1/3/2017	<0.01	<0.01	<0.01				
1/24/2017	<0.01	<0.01					
1/25/2017			<0.01				
5/10/2017	<0.01	<0.01	<0.01				
6/27/2017	<0.01	<0.01	<0.01				
2/27/2018	<0.01	<0.01	<0.01				
6/5/2018	<0.01	<0.01	<0.01				
11/5/2018		<0.01					
11/6/2018	<0.01		<0.01				
1/15/2019							<0.01
1/16/2019					0.00367 (J)		
1/17/2019				<0.01			
1/30/2019						<0.01	
3/27/2019	<0.01	<0.01	<0.01				
9/10/2019				<0.01			
9/11/2019	<0.01	<0.01	<0.01		0.00404 (J)	<0.01	
4/21/2020					0.00451 (J)		
4/22/2020	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
8/11/2020	<0.01					<0.01	
8/12/2020		<0.01	<0.01	<0.01			
8/18/2020					0.00268 (J)		
8/19/2020							<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	0.018						
1/15/2019		<0.01	<0.01	<0.01	<0.01		
1/16/2019						<0.01	<0.01
9/10/2019			<0.01				
9/11/2019	0.0155	<0.01		<0.01	<0.01	<0.01	<0.01
4/20/2020			<0.01				<0.01
4/21/2020					<0.01	<0.01	
4/22/2020	0.0111	<0.01					
4/29/2020				<0.01			
8/11/2020		<0.01					
8/12/2020			<0.01				<0.01
8/18/2020				<0.01			
8/19/2020	0.0108				<0.01	<0.01	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
2/17/2016				<0.01			
4/12/2016				<0.01			
5/31/2016				<0.01			
8/17/2016				<0.01			
10/11/2016				<0.01			
1/24/2017				<0.01			
5/9/2017				<0.01			
6/28/2017				<0.01			
2/27/2018				<0.01			
6/5/2018				<0.01			
11/6/2018				<0.01			
3/27/2019				<0.01			
9/11/2019				<0.01			
4/20/2020	<0.01				<0.01	<0.01	<0.01
4/21/2020		<0.01	<0.01	<0.01			
8/11/2020					<0.01		
8/12/2020				<0.01		<0.01	<0.01
8/17/2020	<0.01	<0.01					
8/19/2020			<0.01				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.01	<0.01			
2/17/2016	<0.01	<0.01					
4/12/2016	<0.01						
4/13/2016		<0.01	<0.01	<0.01			
5/31/2016	<0.01	<0.01					
6/1/2016			<0.01	<0.01			
8/17/2016	<0.01	<0.01	<0.01	<0.01			
10/11/2016	<0.01						
10/12/2016		<0.01	<0.01	<0.01			
1/24/2017	<0.01						
1/25/2017		<0.01	<0.01	<0.01			
5/10/2017	<0.01	<0.01	<0.01	<0.01			
6/28/2017	<0.01	<0.01	<0.01	<0.01			
2/27/2018	<0.01	<0.01	<0.01	<0.01			
6/5/2018	<0.01	<0.01	<0.01	<0.01			
11/7/2018	<0.01	<0.01	<0.01	<0.01			
3/26/2019	<0.01	<0.01	<0.01	<0.01			
9/10/2019	<0.01	<0.01	<0.01	<0.01	<0.01		
4/20/2020					0.00237 (J)		
4/21/2020	<0.01	<0.01	<0.01	<0.01			
7/6/2020						<0.01	<0.01
8/11/2020						<0.01	<0.01
8/17/2020					<0.01		
8/18/2020				<0.01			
8/19/2020	<0.01	<0.01	<0.01				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.01	<0.01	<0.01	<0.01
8/11/2020	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		9.03		119	113	108	
2/17/2016	785		40.2				187
4/12/2016					86.7	114	188
4/13/2016	715	10.7	33.1	122			
5/31/2016		10.2	28.1	94.3	83.1	114	183
6/1/2016	832						
8/15/2016	862						
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	
1/24/2017	906						183
1/25/2017		9.71	32	101	113	75.4	
5/9/2017	810		44	91	74	84	
5/10/2017		11					160
6/27/2017	830						150
6/28/2017		10	88	71	71	120	
8/29/2017		14	110	80	72	180	
8/30/2017	910						160
6/4/2018	850						
6/5/2018		39	79				160
6/6/2018				62	48	450	
9/10/2018	920		80				
9/11/2018		29		63	62		140
9/12/2018						200	
11/5/2018			81	74	81		
11/6/2018	880						160
11/7/2018		45				180	
3/26/2019				92.3	92.4		157
3/27/2019	1090	66.2	83.2			335	
9/10/2019	992	50.5	87.2	89.3		193	150
9/11/2019					128		
4/20/2020					76.5		142
4/21/2020	874			121		168	
4/22/2020		63.2	58.7				
8/11/2020						242	
8/12/2020							160
8/17/2020	919						
8/18/2020		58.6	81.1	89	203		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					125		
2/17/2016	87.4	72.3	60.2	304		14.7	10.4
4/12/2016			68.2			20	11.3
4/13/2016	92.7	123		307	119		
6/1/2016	111	144	61.4	273	99.2	20.1	10.4
8/15/2016	98.3	50.1	56	275			
8/16/2016					71.9	19.1	12.2
10/11/2016				284		18.4	19.8
10/12/2016	99.3	72.6	36.6		93.9		
1/24/2017	85.4	63.4	12.3	302		15	30.7
1/25/2017					103		
5/9/2017				250	100	14	
5/10/2017	74	82	10				33
6/27/2017	75	44	9.7			14	
6/28/2017				230	69		56
8/29/2017					77	16	61
8/30/2017	87	230	7.8	250			
6/4/2018				260			
6/5/2018	87	230	13			14	97
6/6/2018					81		
9/10/2018				280	64		
9/11/2018						13	83
9/12/2018	63	33	28				
11/5/2018					68		
11/6/2018	97	220	11	280			
11/7/2018						14	91
3/26/2019	123	161	21.3		92	12.3	103
3/27/2019				375			
9/9/2019		57.3	17.8	385			
9/10/2019	68				63.1	12.4	83.4
4/20/2020	49.6						
4/21/2020		78	19.2	522	99	10.2	
4/22/2020							84.7
8/11/2020	55	46.7					
8/12/2020			13.8			10.2	82.2
8/17/2020				497			
8/18/2020					63.4		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	28.7					<1	
4/12/2016	32.5					0.49 (J)	
6/1/2016	31.9					0.544 (J)	
8/15/2016						0.332 (J)	
8/16/2016					0.894 (J)		0.702 (J)
8/17/2016	30.5	16.2	0.928 (J)	6.46			
9/20/2016		14.9	0.478 (J)	8.3	<1		<1
10/11/2016	32.3				<1	<1	<1
10/12/2016		12.4	0.727 (J)	8.36			
11/15/2016		8.6	0.448 (J)	8.75	1.19		<1
1/4/2017		12.2	0.627 (J)	7.85	<1		<1
1/23/2017		16	1.34				0.493 (J)
1/24/2017	33.5			6.62		<1	
1/26/2017					0.6 (J)		
5/9/2017	33	55	<1	5.6	<1	2.1 (J)	<1
6/27/2017		45	<1	5.3	<1		<1
6/28/2017	35					<1	
8/29/2017	37	37	<1				
8/30/2017				8.2	<1	<1	<1
6/4/2018						1.4 (J)	
6/5/2018		9.3	2.1 (J)	8.3	1.4 (J)		<1
6/6/2018	47						
9/11/2018		7.8	<1	8.9	<1		<1
9/12/2018	41					<1	
11/6/2018	48	6	<1	8.6	<1	<1	<1
3/26/2019		6.86	1.66	10.1	0.594 (J)		<1
3/27/2019	62.4					6.64	
9/9/2019						6.56	
9/10/2019	66						
9/11/2019		5.29	1.29	10.6	<1		<1
4/20/2020						10.5	
4/21/2020		6.28	2.21	9.4	0.694 (J)		<1
4/22/2020	76.1						
8/11/2020	79.5						
8/17/2020						17.3	
8/18/2020		9.57	1.57	10.3	0.608 (J)		<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	1.78	2.06	9.33				
9/19/2016	2.06	1.44	11.2				
10/11/2016	2.33	1.38	12.6				
11/14/2016	2.31	1.15	12.4				
1/3/2017	2.81	1.57	14.3				
1/24/2017	3.34	2.06					
1/25/2017			15.2				
5/10/2017	2.9 (J)	2.1 (J)	12				
6/27/2017	3.4 (J)	2.7 (J)	13				
8/30/2017	3.7 (J)	2.6 (J)	15				
6/5/2018	3.7 (J)	3.1 (J)	17				
9/11/2018	2.2 (J)	1.6 (J)	16				
11/5/2018		2.4 (J)					
11/6/2018	3.1 (J)		15				
1/15/2019							780
1/16/2019					34.9		
1/17/2019				47.9			
1/30/2019						11	
3/27/2019	3.55	3.24	15.1				
9/10/2019				27.1			
9/11/2019	3.83	2.66	14.5		30	11	
4/21/2020					44.5		
4/22/2020	3.78	2.51	9.64	26.8		10.9	510
8/11/2020	4.33					8.73	
8/12/2020		2.54	13.6	13.5			
8/18/2020					28.8		
8/19/2020							402

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	103						
1/15/2019		48.5	224	96	9.73		
1/16/2019						74	394
9/10/2019			291				
9/11/2019	60.5	44.1		79.1	9.43	45.7	409
4/20/2020			247				429
4/21/2020					12.4	59.7	
4/22/2020	66.5	31.7					
4/29/2020				77.2			
8/11/2020		51.7					
8/12/2020			285				415
8/18/2020				76.6			
8/19/2020	70				55.7	71.8	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	157				14.7	242	252
4/21/2020		90.2	90.8	163			
8/11/2020					12.6		
8/12/2020				132		180	274
8/17/2020	128	78					
8/19/2020			70.7				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			49.4	45.2			
2/17/2016	132	311					
4/12/2016	130						
4/13/2016		330	51.7	43.9			
5/31/2016	111	324					
6/1/2016			51.2	32			
8/17/2016	95.8	306	42.9	31.9			
10/11/2016	101						
10/12/2016		296	39.5	39.6			
1/24/2017	129						
1/25/2017		243	31.3	44			
5/10/2017	120	210	30	32			
6/28/2017	100	210	35	34			
8/29/2017	95	220	40	34			
6/5/2018	98	390	25	22			
9/11/2018	100	360	23	33			
9/12/2018					400		
11/7/2018	97	390	30	76			
3/26/2019	120	430	21.6	138			
9/10/2019	140	409	37.4	115	499		
4/20/2020					482		
4/21/2020	153	318	43.3	133			
7/6/2020						78.2	83.4
8/11/2020						64.1	54.5
8/17/2020					493		
8/18/2020				115			
8/19/2020	163	296	44.5				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	94.7	81.5	198	10.3
8/11/2020	79	49.3	206	9.32

Time Series

Constituent: TDS (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		312		264	242	340	
2/17/2016	1540		158				408
4/12/2016					176	298	334
4/13/2016	1200	324	161	238			
5/31/2016		333	173	206	189	309	351
6/1/2016	1440						
8/15/2016	1420						
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
1/24/2017	1350						354
1/25/2017		286	161	271	274	259	
5/9/2017	1540		195	236	191	285	
5/10/2017		326					332
6/27/2017	1470						331
6/28/2017		304	227	198	176	348	
8/29/2017		348	229	187	163	528	
8/30/2017	1530						317
6/4/2018	1370						
6/5/2018		346	200				318
6/6/2018				199	138	932	
9/10/2018	1380		183				
9/11/2018		335		184	185		321
9/12/2018						180	
11/5/2018			193	210	208		
11/6/2018	1450						331
11/7/2018		342				528	
3/26/2019				230	198		338 (D)
3/27/2019	1910	347	211			834	
9/10/2019	1740	351	201	218 (D)		658	358
9/11/2019					316		
4/20/2020					201		369
4/21/2020	1530			291		628	
4/22/2020		338	249				
8/11/2020						688	
8/12/2020							401
8/17/2020	1590						
8/18/2020		376	260	250	444		

Time Series

Constituent: TDS (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					264		
2/17/2016	310	328	464	516		142	53
4/12/2016			491			155	38.7
4/13/2016	372	373		508	226		
6/1/2016	360	442	468	494	231	148	46
8/15/2016	366	392	454	476			
8/16/2016					181	132	48
10/11/2016				508			
10/12/2016					225		
11/2/2016	374	469	422			115	66.7
1/24/2017	380	464	408	510		107	78.7
1/25/2017					277		
5/9/2017				510	255	80.7	
5/10/2017	381	492	358				92.7
6/27/2017	404	516	382			96.7	
6/28/2017				480	175		118
8/29/2017					218	120	128
8/30/2017	420	646	392	478			
6/4/2018				528			
6/5/2018	408	644	352			113	171
6/6/2018					207		
9/10/2018				472	197		
9/11/2018						108	170
9/12/2018	415	476	339				
11/5/2018					200		
11/6/2018	447	634	368	522			
11/7/2018						96.7	163
3/26/2019	481	516	406		218	103	174
3/27/2019				562			
9/9/2019		500	409 (D)	666			
9/10/2019	453				198	107	167
4/20/2020	461						
4/21/2020		490	429	878	265	107	
4/22/2020							162
8/11/2020	482	522					
8/12/2020			390			96	165
8/17/2020				818			
8/18/2020					179		

Time Series

Constituent: TDS (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	144					358	
4/12/2016	140					393	
6/1/2016	139					381	
8/15/2016						348	
8/16/2016					41.3		<25
8/17/2016	142	64	36.7	65.3			
9/20/2016		60	25.3	44	42.7		26.7
10/11/2016						379	
10/12/2016		54.7	<25				
10/31/2016				38.7	140		25.3
11/2/2016	128						
11/29/2016		42	<25	34	78		<25
1/4/2017		56	27.3	42	34		34.7
1/23/2017		50.7	<25				33.3
1/24/2017	124			45.3		354	
1/26/2017					32.7		
5/9/2017	136	126	28.7	49.3	<25	368	<25
6/27/2017		93.3	27.3	46	30.7		<25
6/28/2017	145					368	
8/29/2017	139	84	30.7				
8/30/2017				38.7	25.3	370	28
6/4/2018						369	
6/5/2018		38.7	26	34.7	<25		28.7
6/6/2018	153						
9/11/2018		35.3	<25	34.7	<25		29.3
9/12/2018	156					354	
11/6/2018	153	40.7	26	36	<25	354	<25
3/26/2019		36.7	<25	30	<25		19.9 (D)
3/27/2019	178					362	
9/9/2019						371	
9/10/2019	182						
9/11/2019		40.7	27.3	40	<25		34
4/20/2020						371	
4/21/2020		39.3	30.7	36	<25		26.7
4/22/2020	195						
8/11/2020	193						
8/17/2020						361	
8/18/2020		42	27.3	35.3	<25		30

Time Series

Constituent: TDS (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	142	49.3	101				
9/19/2016	121	44.7	80				
11/1/2016	103	48	78				
11/28/2016	84	40.7	68.7				
1/3/2017	89.3	49.3	60.7				
1/24/2017	83.3	48.7					
1/25/2017			54.7				
5/10/2017	31.3	46.7	60.7				
6/27/2017	67.3	55.3	58				
8/30/2017	64	57.3	66.7				
6/5/2018	50	52.7	71.3				
9/11/2018	53.3	60	66.7				
11/5/2018		53.3					
11/6/2018	66		61.3				
1/15/2019							1210
1/16/2019					85.3		
1/17/2019				156			
1/30/2019						184	
3/27/2019	48.7	51.35 (D)	65.3				
9/10/2019				112			
9/11/2019	52.7	55.3	68.3 (D)		100	182	
4/21/2020					176		
4/22/2020	49.3	52.7	62.7	114		199	977
8/11/2020	52					184	
8/12/2020		49.3	62	66			
8/18/2020					100		
8/19/2020							834

Time Series

Constituent: TDS (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	381						
1/15/2019		597	392	433	334		
1/16/2019						345	706
9/10/2019			576				
9/11/2019	280	454		334	299	366 (D)	1570
4/20/2020			534				790
4/21/2020					299	463	
4/22/2020	290	512					
4/29/2020				317			
8/11/2020		526					
8/12/2020			588				728
8/18/2020				299			
8/19/2020	308				371	534	

Time Series

Constituent: TDS (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
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	369				441	545	502
4/21/2020		208	222	494			
8/11/2020					434		
8/12/2020				433		497	491
8/17/2020	305	181					
8/19/2020			171				

Time Series

Constituent: TDS (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			656	226			
2/17/2016	640	892					
4/12/2016	610						
4/13/2016		1010	634	202			
5/31/2016	626	1100					
6/1/2016			672	224			
8/17/2016	628	1070	624	290			
10/11/2016	636						
10/12/2016		1040	586	315			
1/24/2017	696						
1/25/2017		972	596	332			
5/10/2017	687	740	576	361			
6/28/2017	622	914	612	396			
8/29/2017	616	924	640	402			
6/5/2018	582	1060	474	448			
9/11/2018	616	1020	496	462			
9/12/2018					714		
11/7/2018	576	1050	514	506			
3/26/2019	682	1100	546	586			
9/10/2019	744	1100	601 (D)	586	854		
4/20/2020					824		
4/21/2020	742	1010	638	578			
7/6/2020						498	260
8/11/2020						462	258
8/17/2020					826		
8/18/2020				542			
8/19/2020	788	1050	658				

Time Series

Constituent: TDS (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	242	195	401	56.7
8/11/2020	229	109	407	52.7

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/26/2020 4:55 PM

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
2/16/2016		<0.001		<0.001	<0.001	<0.001	
2/17/2016	0.000601 (J)		0.000869 (J)				0.000697 (J)
4/12/2016					<0.001	<0.001	<0.001
4/13/2016	<0.001	<0.001	<0.001	<0.001			
5/31/2016		<0.001	<0.001	<0.001	0.000212 (J)	<0.001	<0.001
6/1/2016	<0.001						
8/15/2016	<0.001						
8/16/2016		<0.001	<0.001	<0.001	0.000449 (J)		<0.001
8/17/2016						<0.001	
10/11/2016	<0.001						<0.001
10/12/2016		<0.001	<0.001	<0.001	0.000532 (J)	<0.001	
1/24/2017	<0.001						<0.001
1/25/2017		<0.001	<0.001	<0.001	0.000309 (J)	<0.001	
5/9/2017	<0.001		<0.001	<0.001	0.00021 (J)	<0.001	
5/10/2017		<0.001					<0.001
6/27/2017	<0.001						<0.001
6/28/2017		<0.001	<0.001	<0.001	0.000244 (J)	<0.001	
2/27/2018	<0.001	<0.001	<0.001			<0.001	
2/28/2018				<0.001	<0.001		<0.001
6/4/2018	<0.001						
6/5/2018		<0.001	<0.001				<0.001
6/6/2018				<0.001	0.000239 (J)	<0.001	
11/5/2018			<0.001	<0.001	0.000623 (J)		
11/6/2018	<0.001						<0.001
11/7/2018		<0.001				<0.001	
3/26/2019				<0.001	0.000215 (J)		<0.001
3/27/2019	<0.001	<0.001	<0.001			<0.001	
9/10/2019	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
9/11/2019					0.00214		
4/20/2020					0.000433 (J)		<0.001
4/21/2020	<0.001			<0.001		<0.001	
4/22/2020		<0.001	<0.001				
8/11/2020						<0.001	
8/12/2020							<0.001
8/17/2020	<0.001						
8/18/2020		<0.001	<0.001	<0.001	0.00114		

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/26/2020 4:55 PM

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-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016					<0.001		
2/17/2016	0.000687 (J)	0.00067 (J)	0.000404 (J)	0.000388 (J)		0.000364 (J)	0.00039 (J)
4/12/2016			<0.001			<0.001	<0.001
4/13/2016	<0.001	<0.001		<0.001	<0.001		
6/1/2016	0.000272 (J)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/15/2016	0.000278 (J)	<0.001	<0.001	<0.001			
8/16/2016					<0.001	<0.001	<0.001
10/11/2016				<0.001		<0.001	<0.001
10/12/2016	0.000322 (J)	<0.001	<0.001		<0.001		
1/24/2017	0.000265 (J)	<0.001	<0.001	<0.001		<0.001	<0.001
1/25/2017					<0.001		
5/9/2017				<0.001	<0.001	<0.001	
5/10/2017	0.000327 (J)	<0.001	<0.001				<0.001
6/27/2017	0.000301 (J)	<0.001	<0.001			<0.001	
6/28/2017				<0.001	<0.001		<0.001
2/27/2018				<0.001		<0.001	<0.001
2/28/2018	0.000321 (J)	<0.001	<0.001		<0.001		
6/4/2018				<0.001			
6/5/2018	0.000288 (J)	<0.001	<0.001			<0.001	<0.001
6/6/2018					<0.001		
11/5/2018					<0.001		
11/6/2018	0.000354 (J)	<0.001	<0.001	<0.001			
11/7/2018						<0.001	<0.001
3/26/2019	0.00041 (J)	<0.001	<0.001		<0.001	<0.001	<0.001
3/27/2019				<0.001			
9/9/2019		<0.001	<0.001	<0.001			
9/10/2019	0.000396 (J)				<0.001	<0.001	<0.001
4/20/2020	0.00032 (J)						
4/21/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
4/22/2020							<0.001
8/11/2020	0.000329 (J)	<0.001					
8/12/2020			<0.001			<0.001	<0.001
8/17/2020				<0.001			
8/18/2020					<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-26 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)
2/17/2016	0.000232 (J)					0.00038 (J)	
4/12/2016	<0.001					<0.001	
6/1/2016	<0.001					<0.001	
8/15/2016						<0.001	
8/16/2016					<0.001		<0.001
8/17/2016	<0.001	<0.001	<0.001	<0.001			
9/20/2016		<0.001	<0.001	<0.001	<0.001		<0.001
10/11/2016	<0.001				<0.001	<0.001	<0.001
10/12/2016		<0.001	<0.001	<0.001			
11/15/2016		<0.001	<0.001	<0.001	<0.001		<0.001
1/4/2017		<0.001	<0.001	<0.001	<0.001		<0.001
1/23/2017		<0.001	<0.001				<0.001
1/24/2017	<0.001			<0.001		<0.001	
1/26/2017					<0.001		
5/9/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/27/2017		<0.001	<0.001	<0.001	<0.001		<0.001
6/28/2017	<0.001					<0.001	
2/27/2018		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/28/2018	<0.001						
6/4/2018						<0.001	
6/5/2018		<0.001	<0.001	<0.001	<0.001		<0.001
6/6/2018	<0.001						
11/6/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/26/2019		<0.001	<0.001	<0.001	<0.001		<0.001
3/27/2019	<0.001					<0.001	
9/9/2019						<0.001	
9/10/2019	<0.001						
9/11/2019		<0.001	<0.001	<0.001	<0.001		<0.001
4/20/2020						<0.001	
4/21/2020		<0.001	<0.001	<0.001	<0.001		<0.001
4/22/2020	<0.001						
8/11/2020	<0.001						
8/17/2020						<0.001	
8/18/2020		<0.001	<0.001	<0.001	<0.001		<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H
8/16/2016	<0.001	<0.001	<0.001				
9/19/2016	<0.001	<0.001	<0.001				
10/11/2016	<0.001	<0.001	<0.001				
11/14/2016	<0.001	<0.001	<0.001				
1/3/2017	<0.001	<0.001	<0.001				
1/24/2017	<0.001	<0.001					
1/25/2017			<0.001				
5/10/2017	<0.001	<0.001	<0.001				
6/27/2017	<0.001	<0.001	<0.001				
2/27/2018	<0.001	<0.001	<0.001				
6/5/2018	<0.001	<0.001	<0.001				
11/5/2018		<0.001					
11/6/2018	<0.001		<0.001				
1/15/2019							<0.001
1/16/2019					<0.001		
1/17/2019				<0.001			
1/30/2019						<0.001	
3/27/2019	<0.001	<0.001	<0.001				
9/10/2019				<0.001			
9/11/2019	<0.001	<0.001	<0.001		<0.001	<0.001	
4/21/2020					<0.001		
4/22/2020	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
8/11/2020	<0.001					<0.001	
8/12/2020		<0.001	<0.001	<0.001			
8/18/2020					<0.001		
8/19/2020							<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	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
1/14/2019	<0.001						
1/15/2019		0.00092 (J)	<0.001	<0.001	<0.001		
1/16/2019						<0.001	<0.001
9/10/2019			0.000223 (J)				
9/11/2019	<0.001	0.000983 (J)		<0.001	<0.001	<0.001	<0.001
4/20/2020			<0.001				<0.001
4/21/2020					<0.001	<0.001	
4/22/2020	<0.001	0.0008 (J)					
4/29/2020				<0.001			
8/11/2020		0.000814 (J)					
8/12/2020			0.000208 (J)				<0.001
8/18/2020				<0.001			
8/19/2020	<0.001				<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/26/2020 4:55 PM

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-45H	GC-AP-MW-48H	GC-AP-MW-49H	GC-AP-MW-5	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-57H
2/17/2016				0.000779 (J)			
4/12/2016				<0.001			
5/31/2016				<0.001			
8/17/2016				<0.001			
10/11/2016				<0.001			
1/24/2017				<0.001			
5/9/2017				<0.001			
6/28/2017				<0.001			
2/27/2018				<0.001			
6/5/2018				<0.001			
11/6/2018				<0.001			
3/27/2019				<0.001			
9/11/2019				<0.001			
4/20/2020	<0.001				<0.001	<0.001	<0.001
4/21/2020		<0.001	<0.001	<0.001			
8/11/2020					<0.001		
8/12/2020				<0.001		<0.001	<0.001
8/17/2020	<0.001	<0.001					
8/19/2020			<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/26/2020 4:55 PM

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	GC-AP-PZ-4	GC-AP-MW-52HO	GC-AP-MW-46HO
2/16/2016			<0.001	<0.001			
2/17/2016	0.000639 (J)	0.00042 (J)					
4/12/2016	<0.001						
4/13/2016		<0.001	<0.001	<0.001			
5/31/2016	<0.001	<0.001					
6/1/2016			<0.001	<0.001			
8/17/2016	<0.001	<0.001	<0.001	<0.001			
10/11/2016	<0.001						
10/12/2016		<0.001	<0.001	<0.001			
1/24/2017	<0.001						
1/25/2017		<0.001	<0.001	<0.001			
5/10/2017	<0.001	<0.001	<0.001	<0.001			
6/28/2017	<0.001	<0.001	<0.001	<0.001			
2/27/2018	<0.001	<0.001	<0.001	<0.001			
6/5/2018	<0.001	<0.001	<0.001	<0.001			
11/7/2018	<0.001	<0.001	<0.001	<0.001			
3/26/2019	<0.001	<0.001	<0.001	<0.001			
9/10/2019	<0.001	<0.001	<0.001	<0.001	<0.001		
4/20/2020					<0.001		
4/21/2020	<0.001	<0.001	<0.001	<0.001			
7/6/2020						<0.001	<0.001
8/11/2020						<0.001	<0.001
8/17/2020					<0.001		
8/18/2020				<0.001			
8/19/2020	<0.001	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/26/2020 4:55 PM

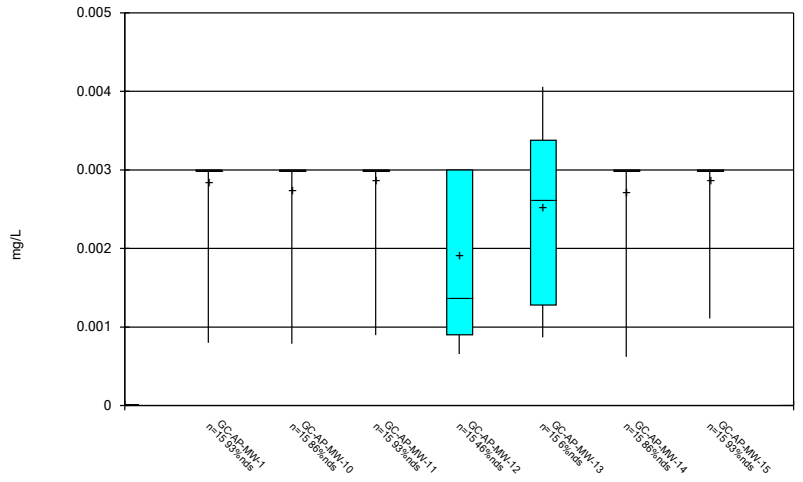
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-50HO	GC-AP-MW-47HO	GC-AP-MW-59HO	GC-AP-MW-55HO
5/28/2020	<0.001	<0.001	<0.001	<0.001
8/11/2020	<0.001	<0.001	<0.001	<0.001

FIGURE B.

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

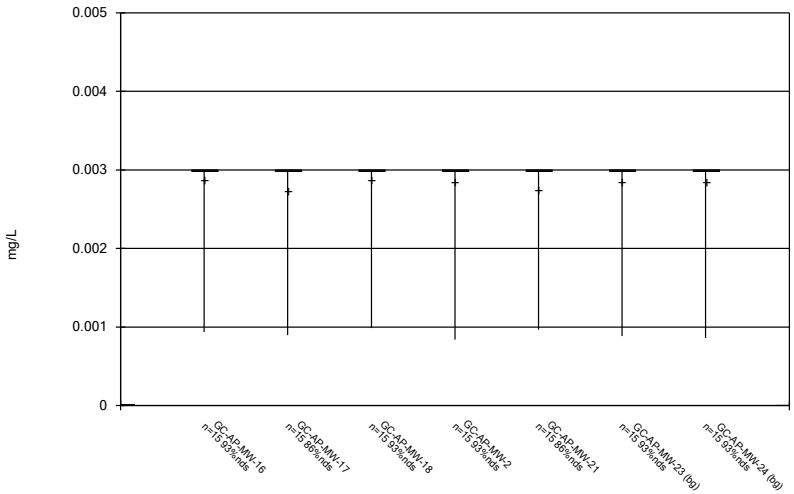


Constituent: Antimony Analysis Run 10/26/2020 4:56 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

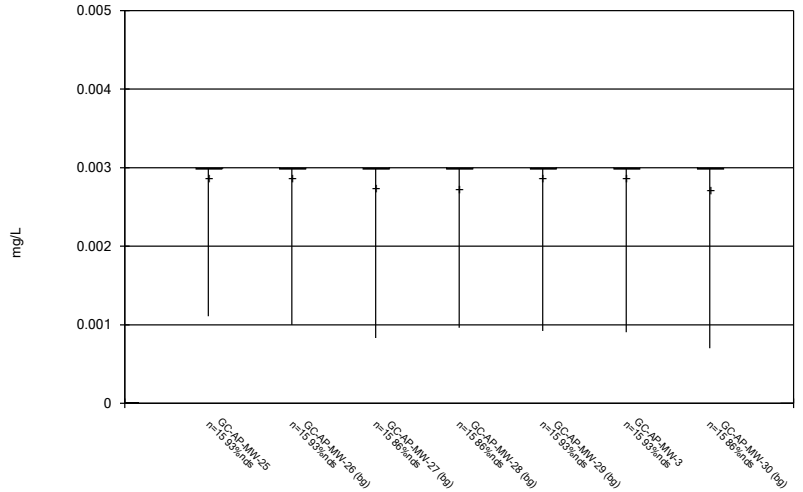


Constituent: Antimony Analysis Run 10/26/2020 4:56 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

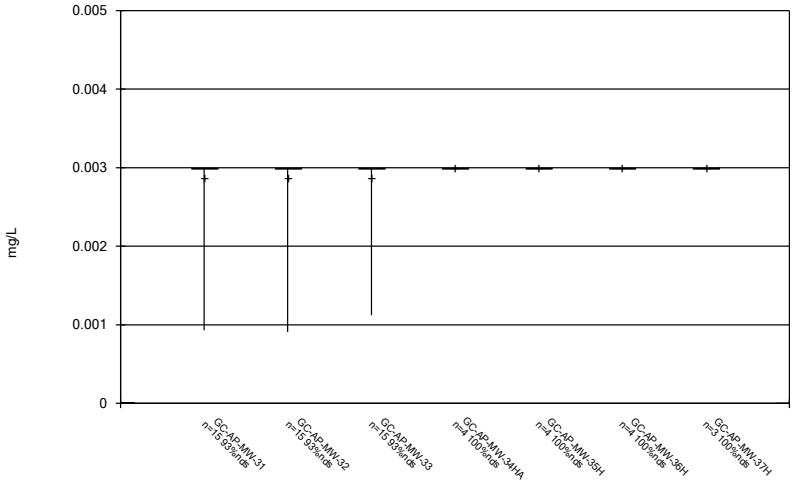


Constituent: Antimony Analysis Run 10/26/2020 4:56 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

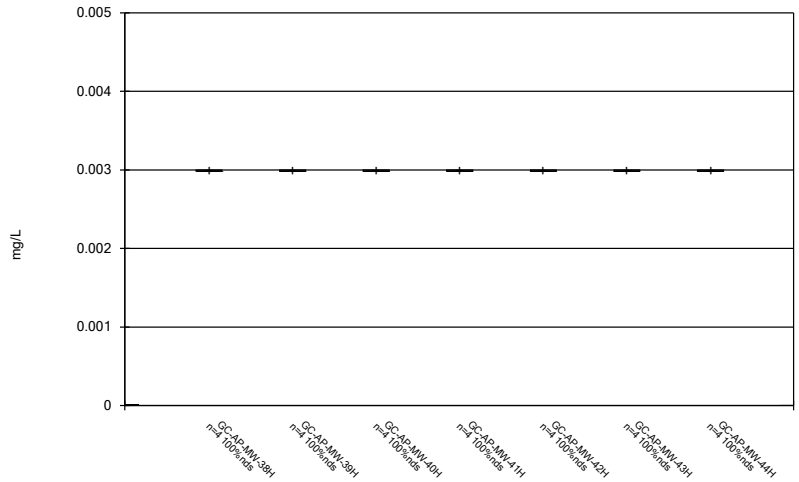


Constituent: Antimony Analysis Run 10/26/2020 4:56 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

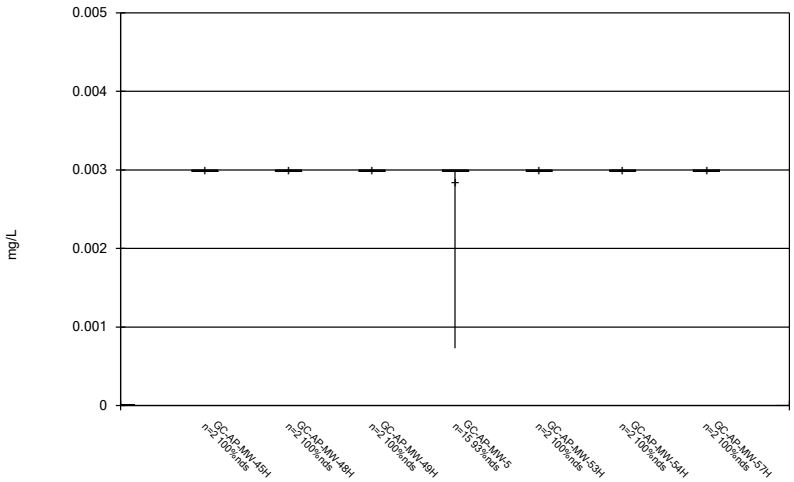


Constituent: Antimony Analysis Run 10/26/2020 4:56 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Greene County Client: Southern Company Data: Greene County AP

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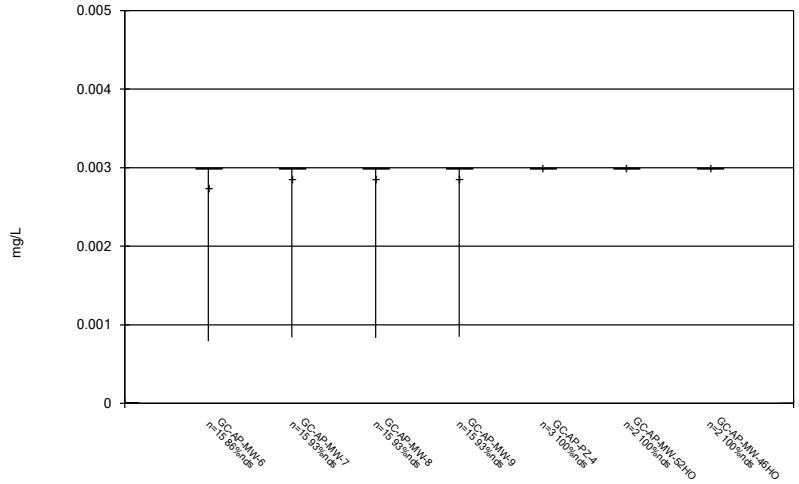
Box & Whiskers Plot



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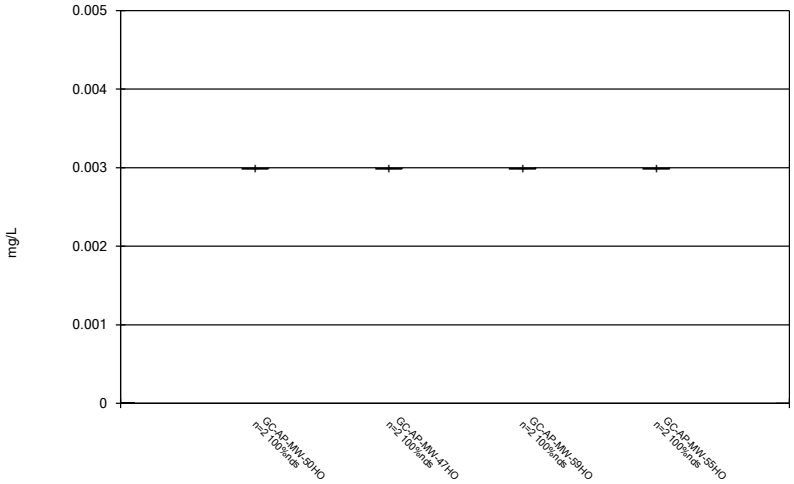

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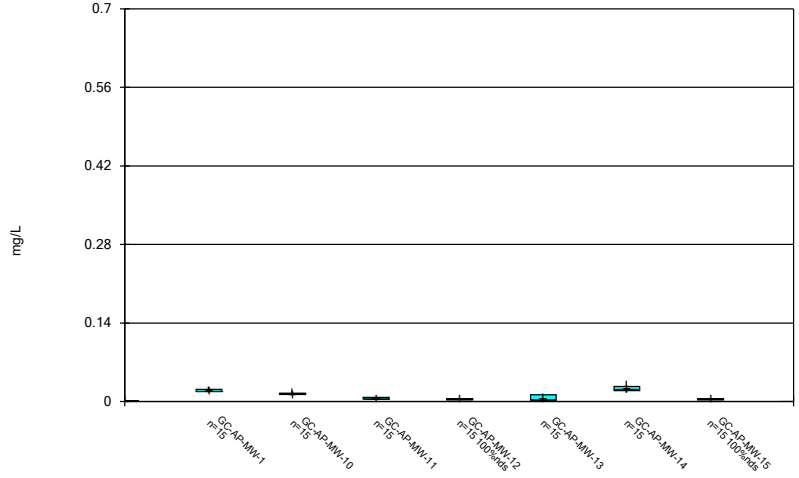

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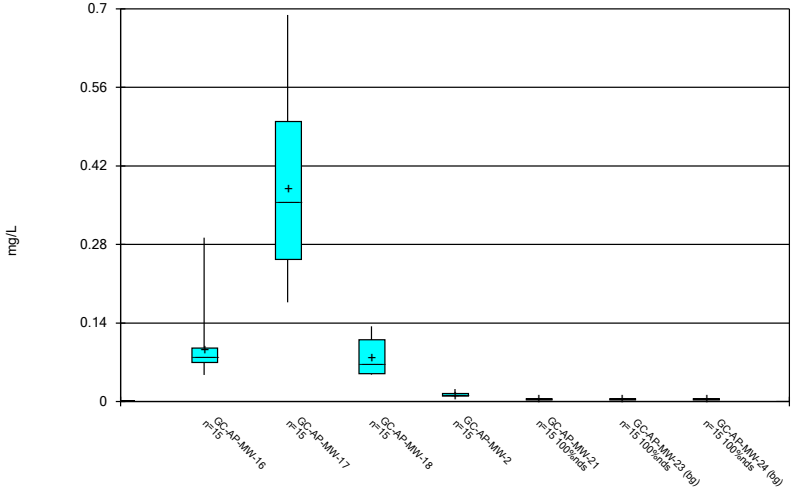

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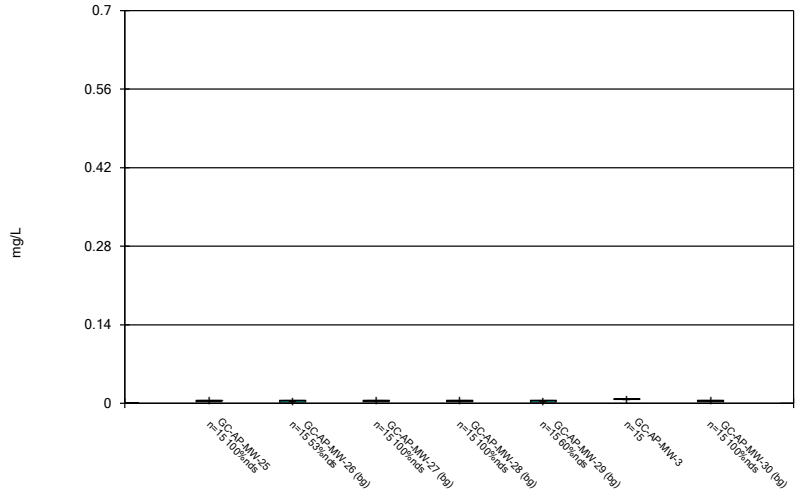

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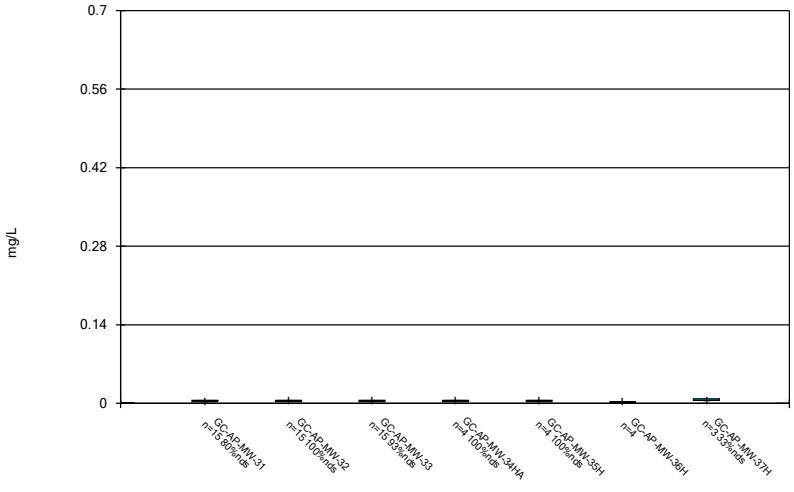

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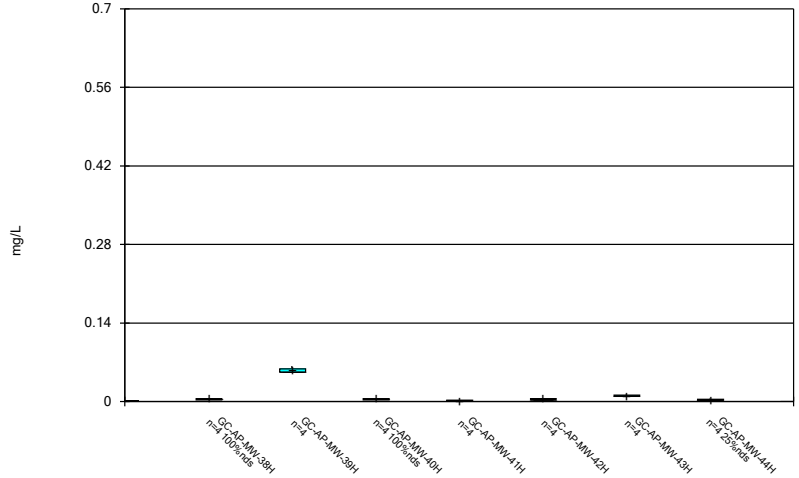

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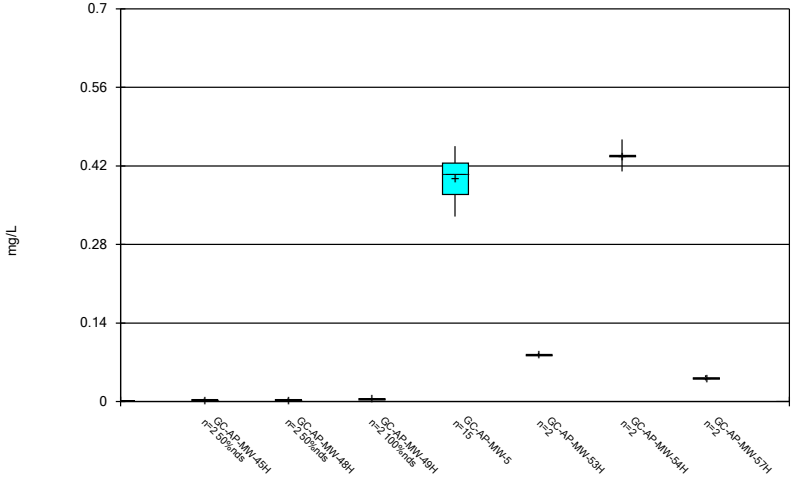

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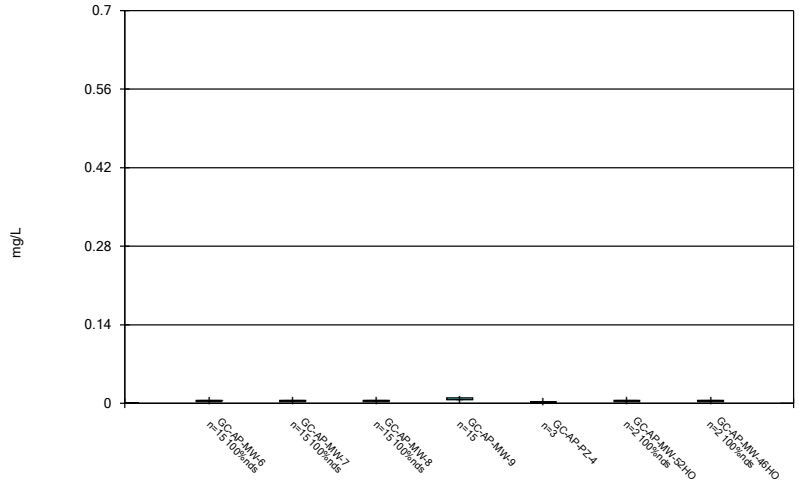

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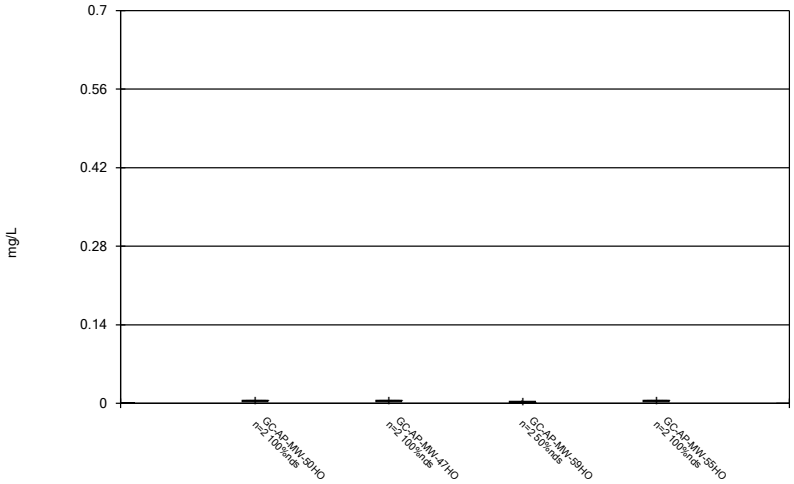

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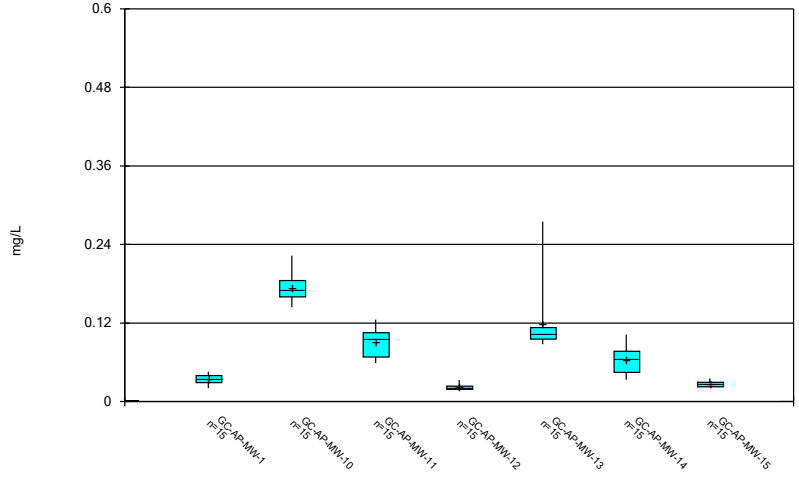

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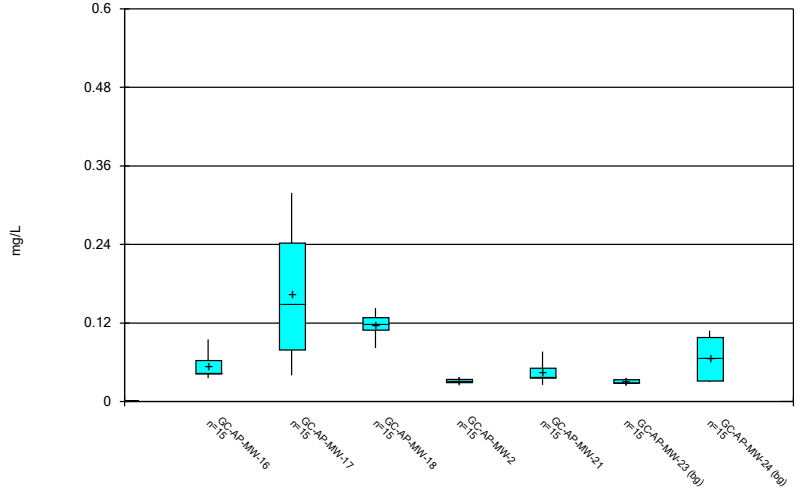

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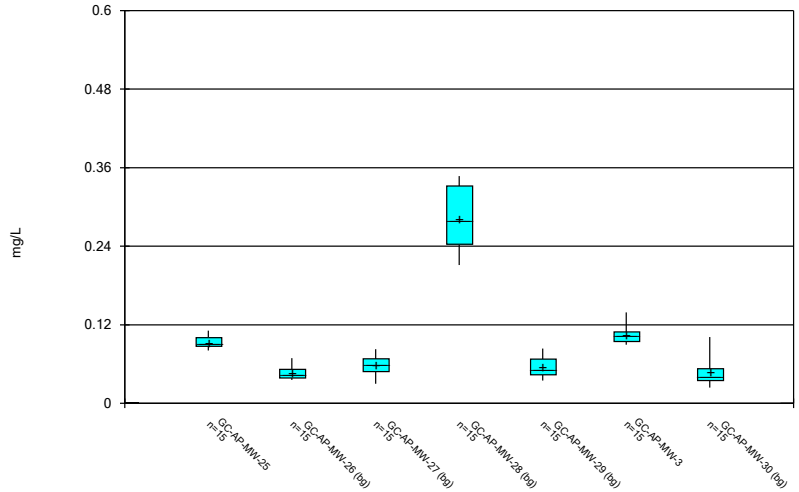

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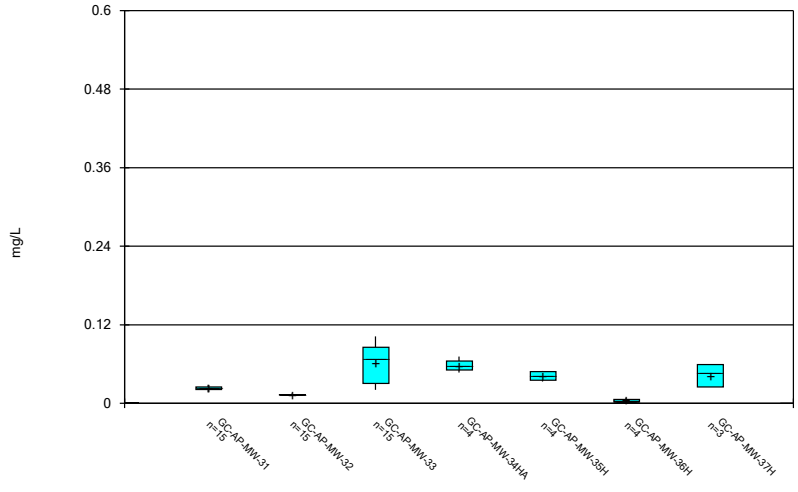

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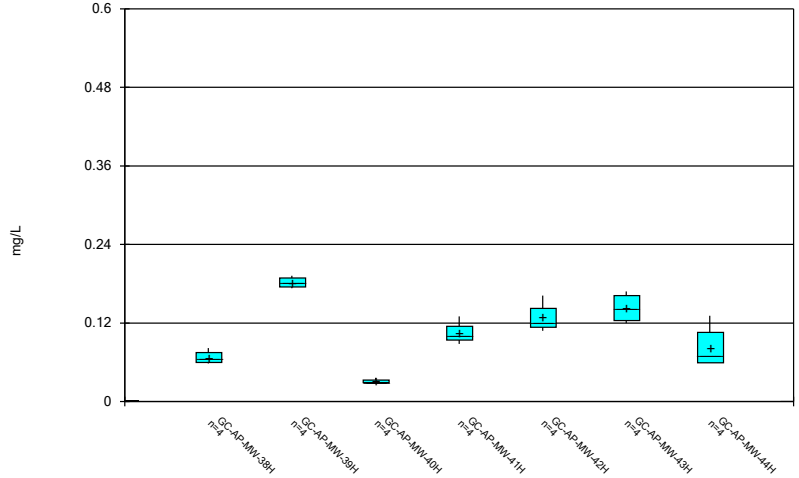

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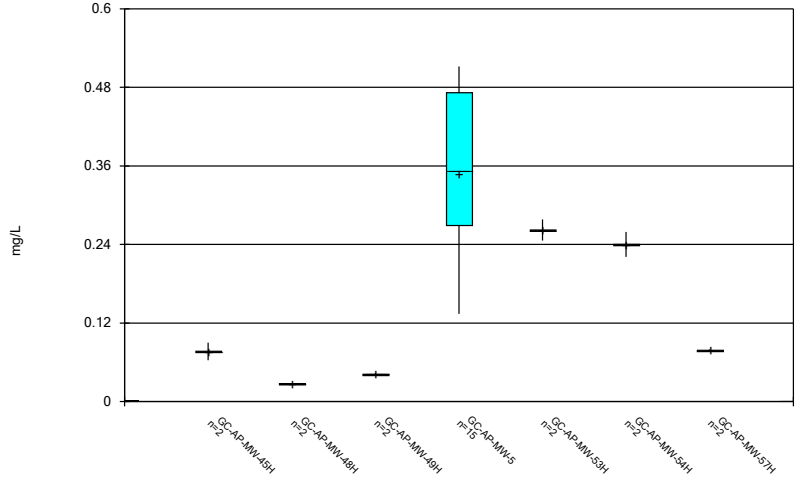

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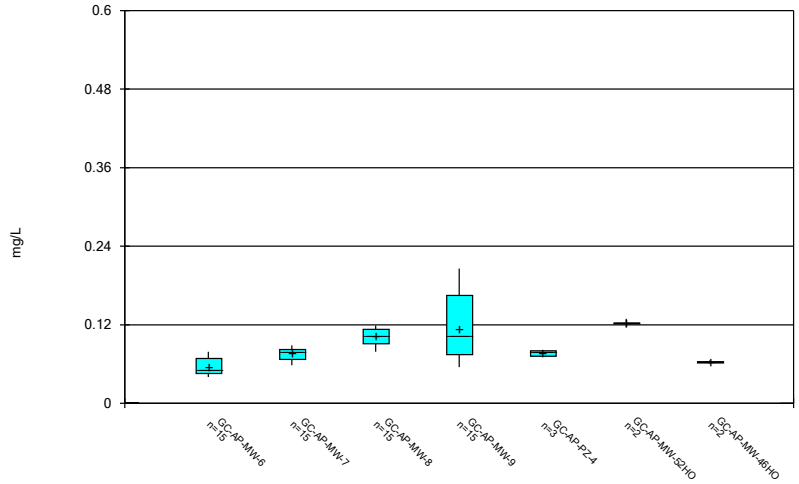

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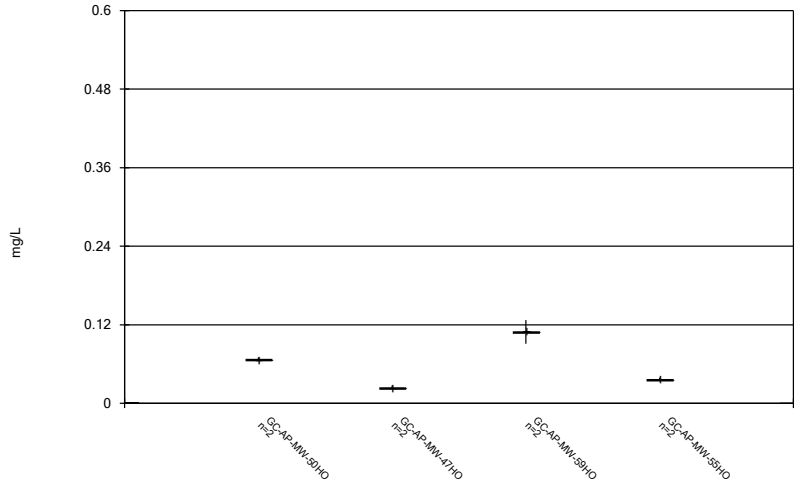

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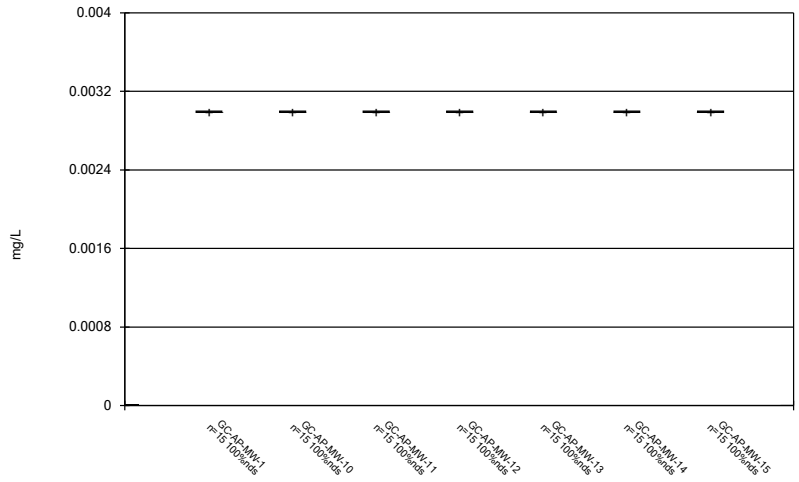

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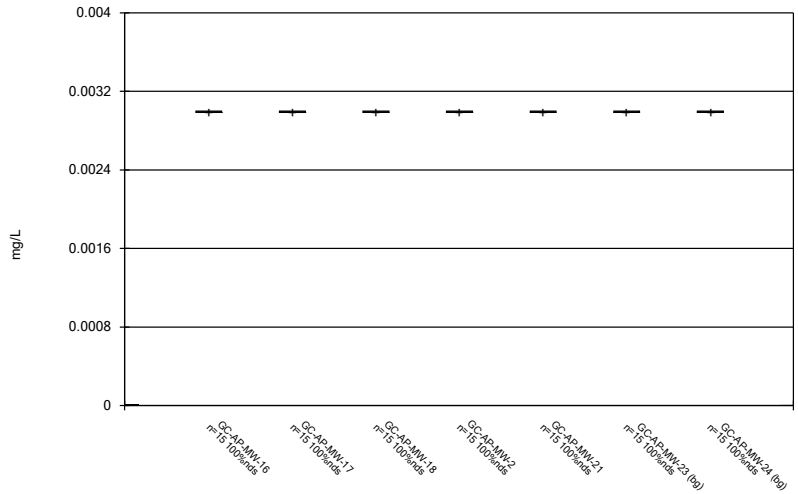

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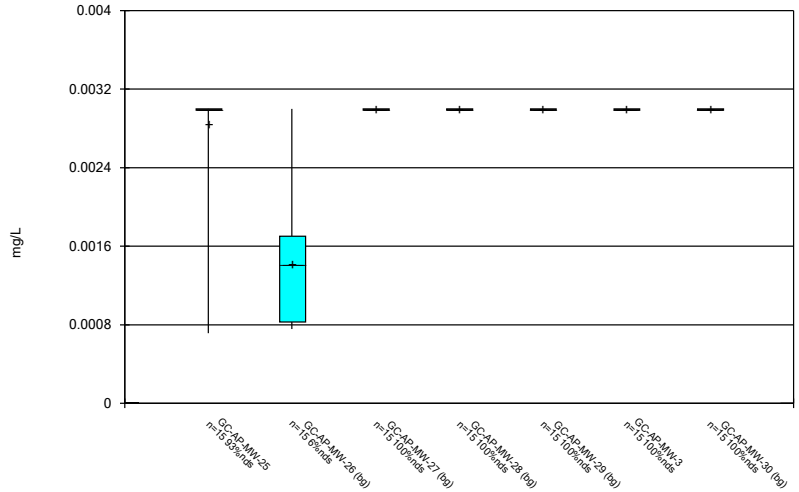

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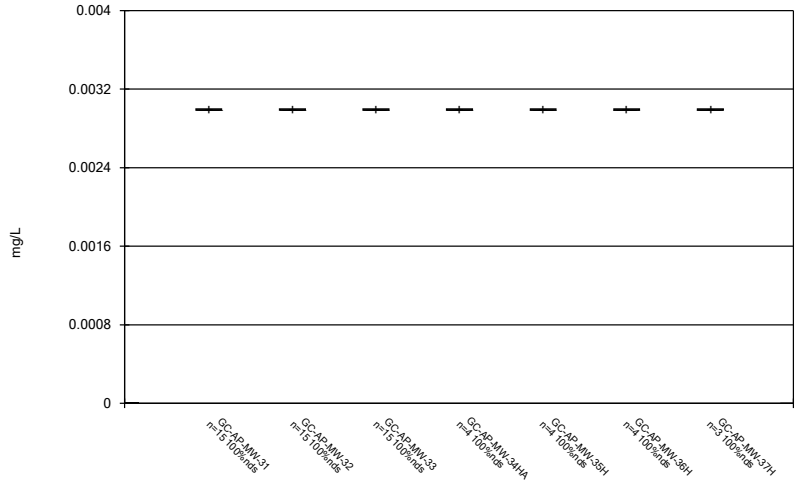

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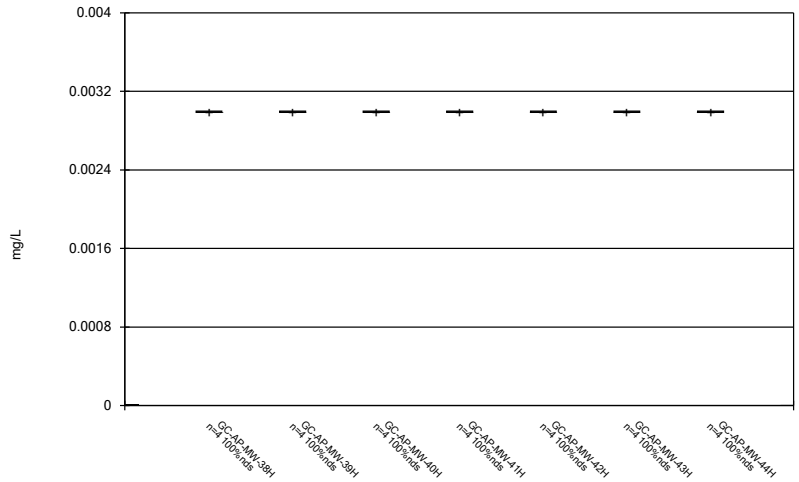

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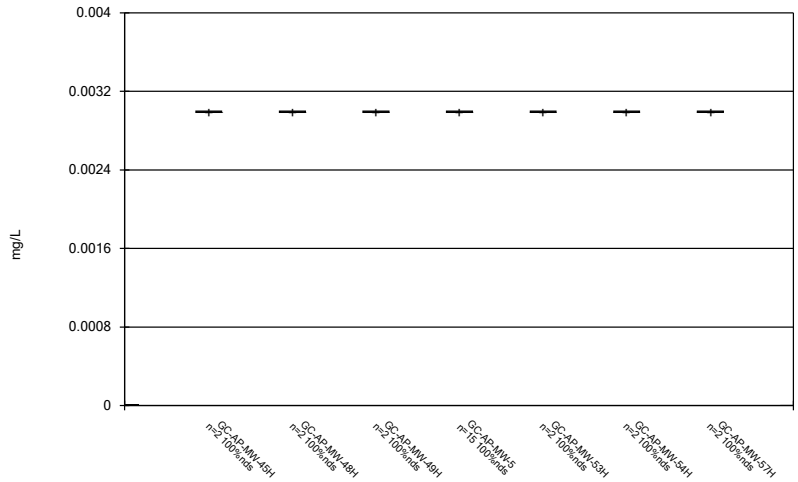

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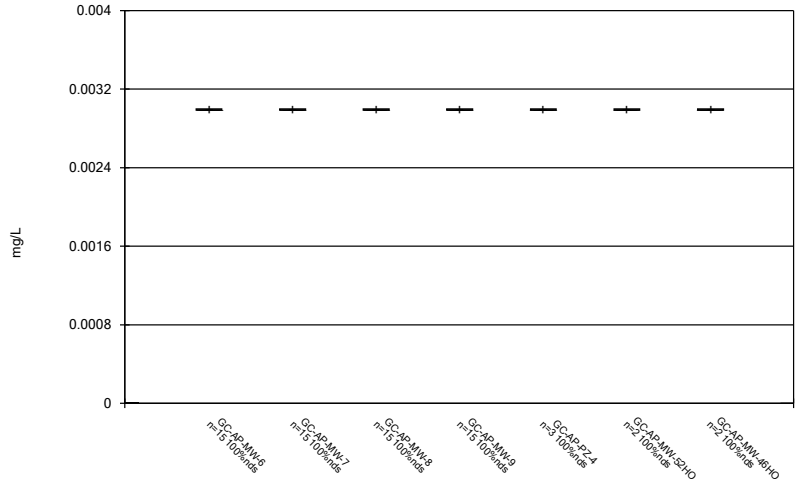

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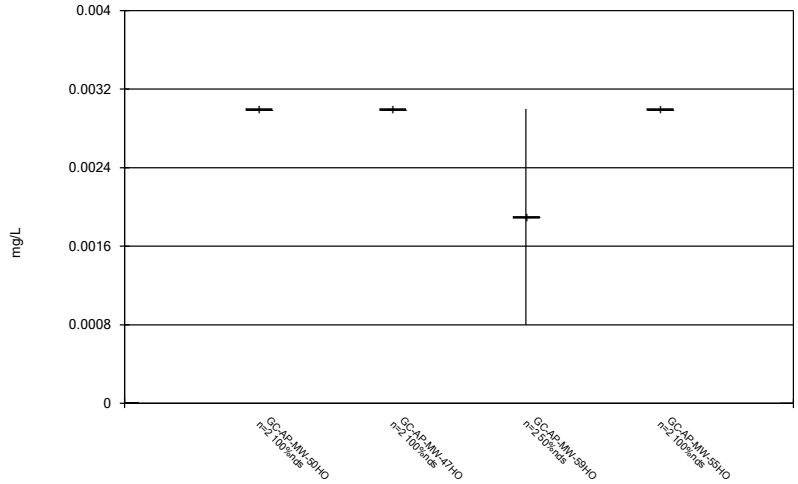

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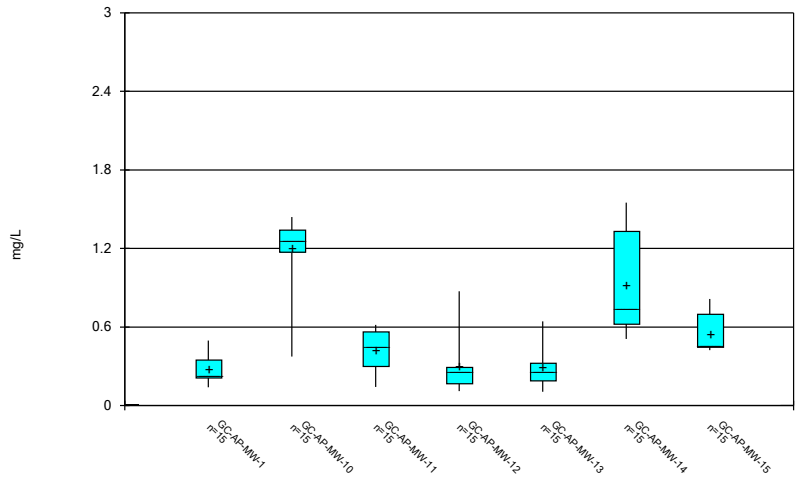

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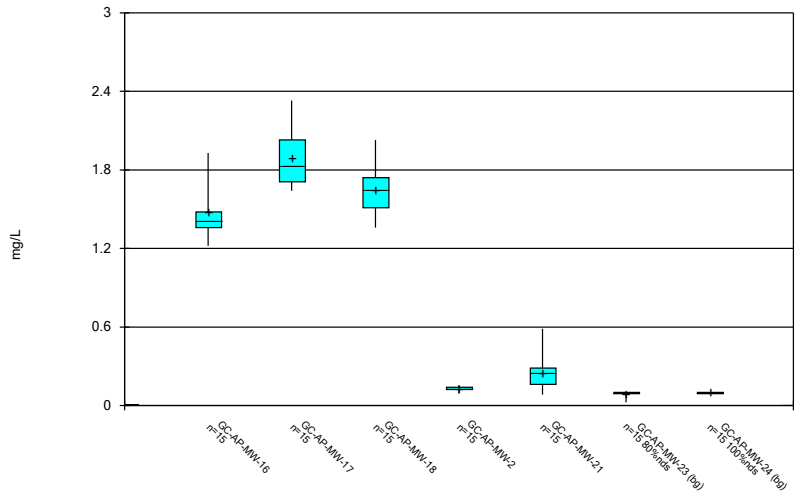

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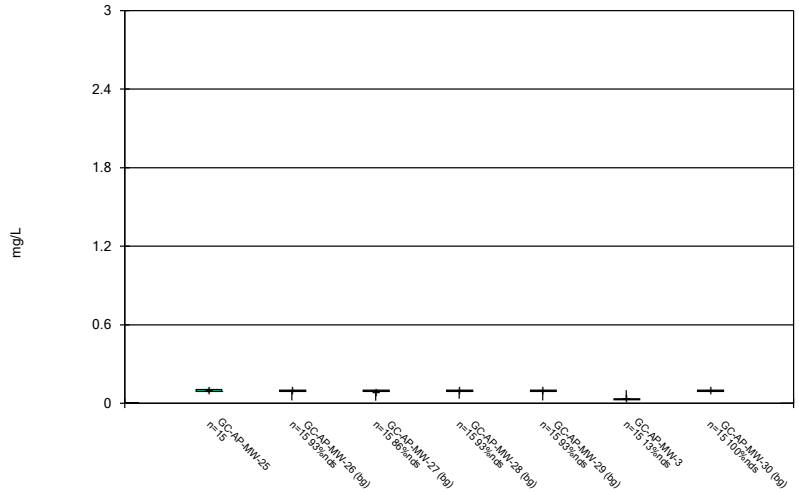

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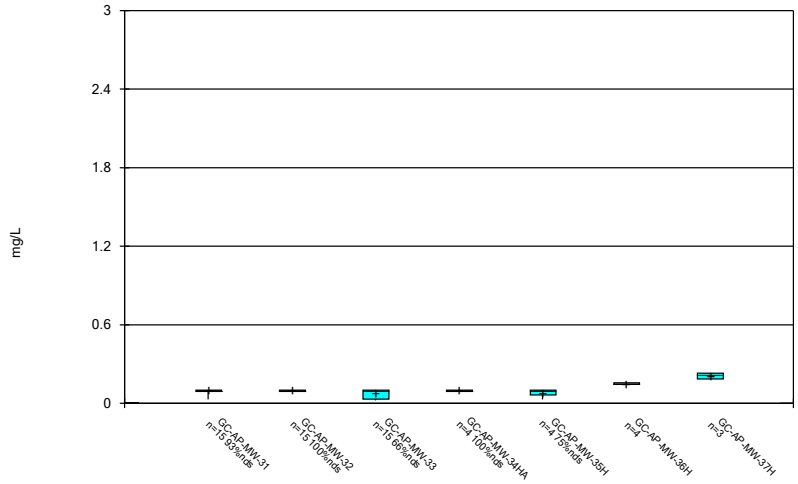

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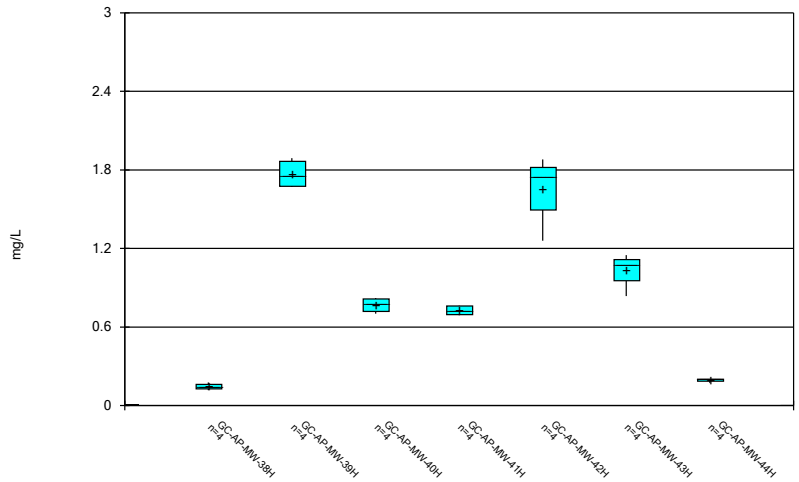

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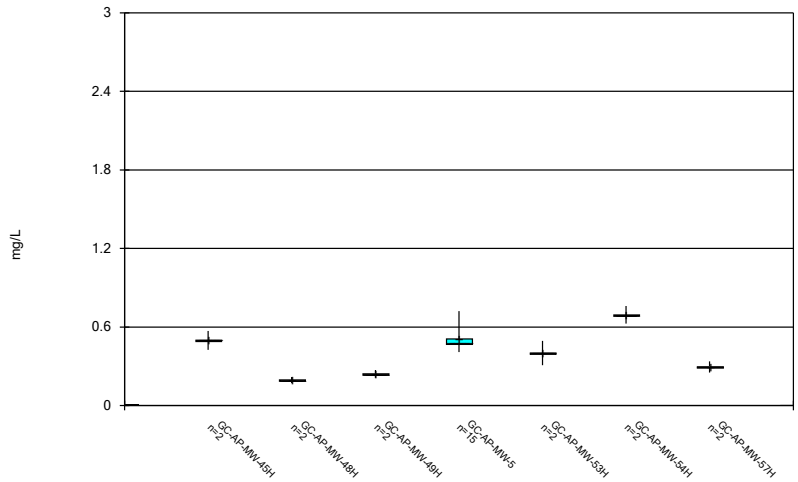

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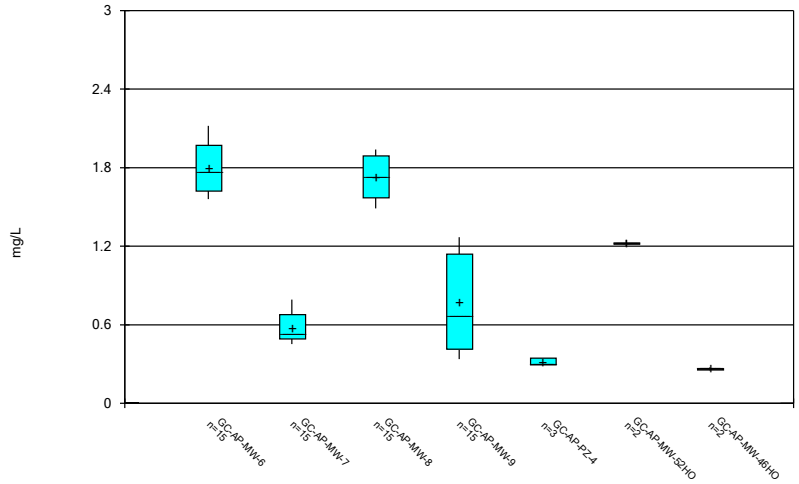

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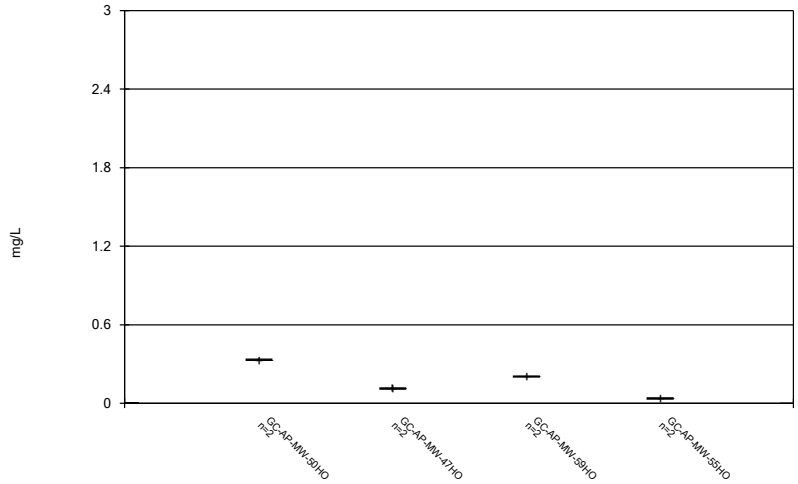

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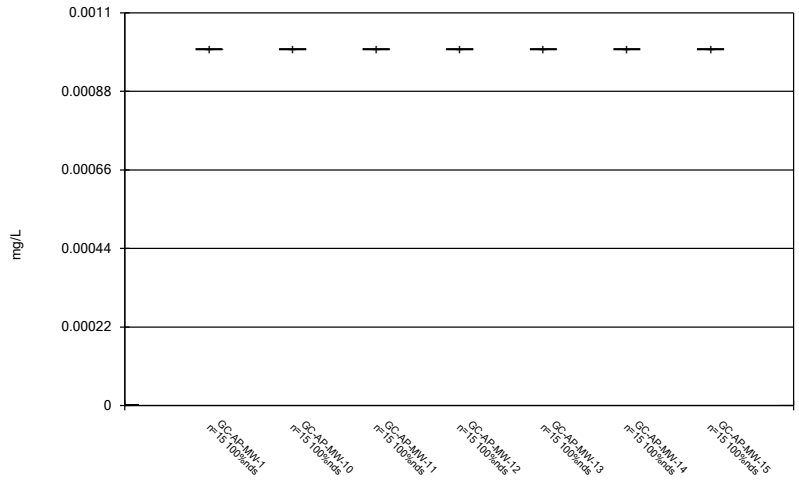

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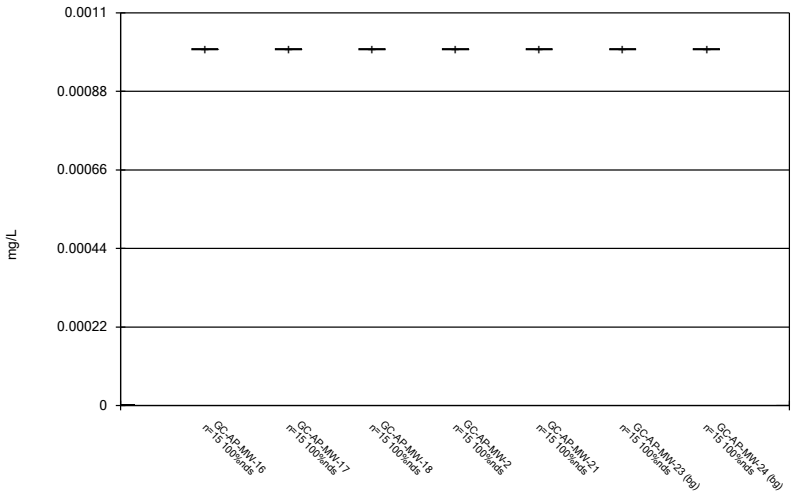

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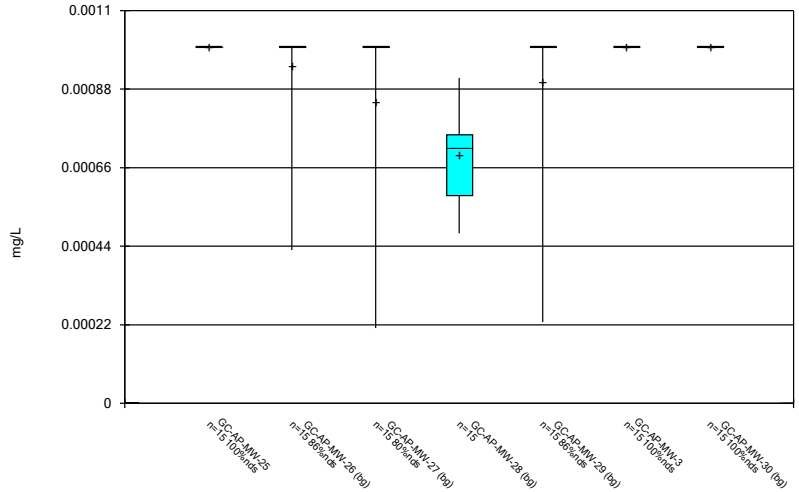

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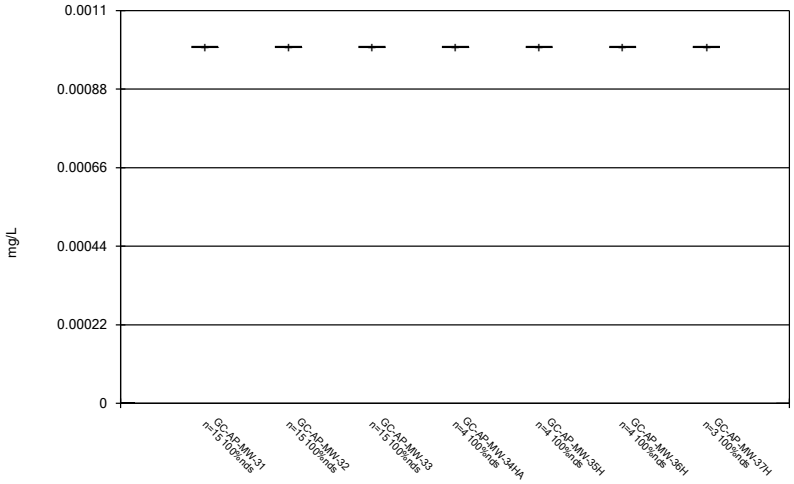

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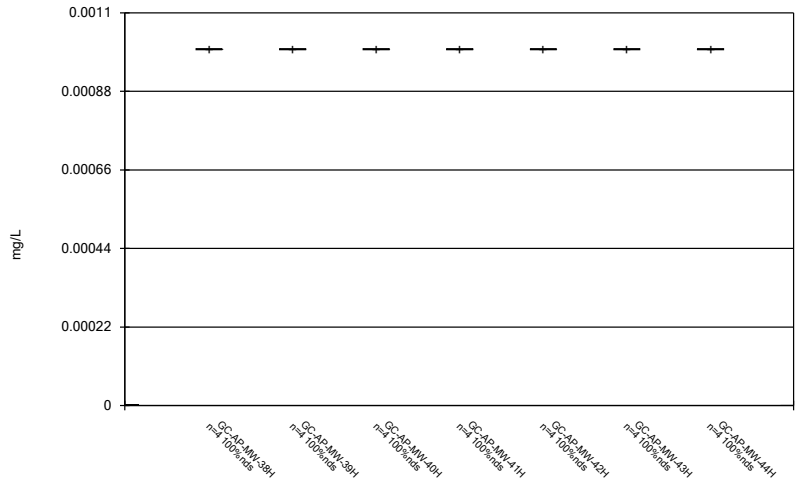

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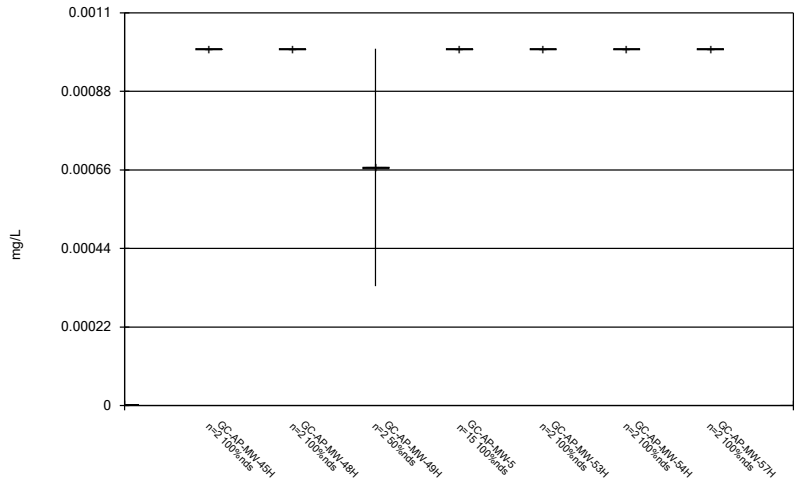
Box & Whiskers Plot

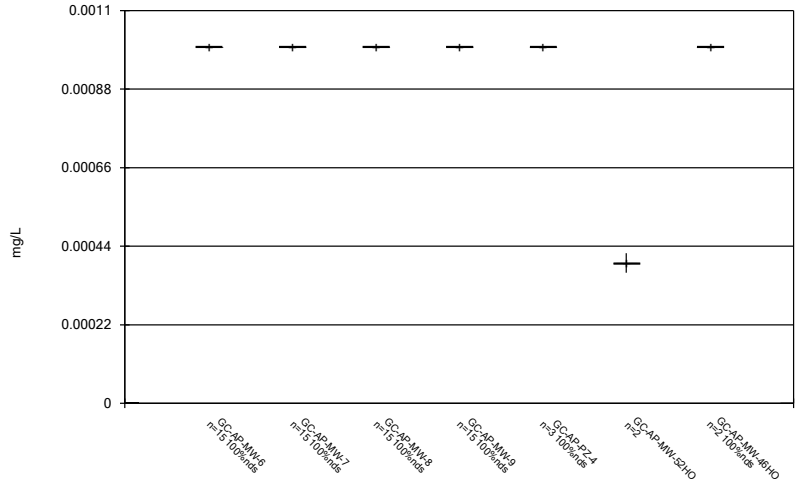


Constituent: Cadmium Analysis Run 10/26/2020 4:56 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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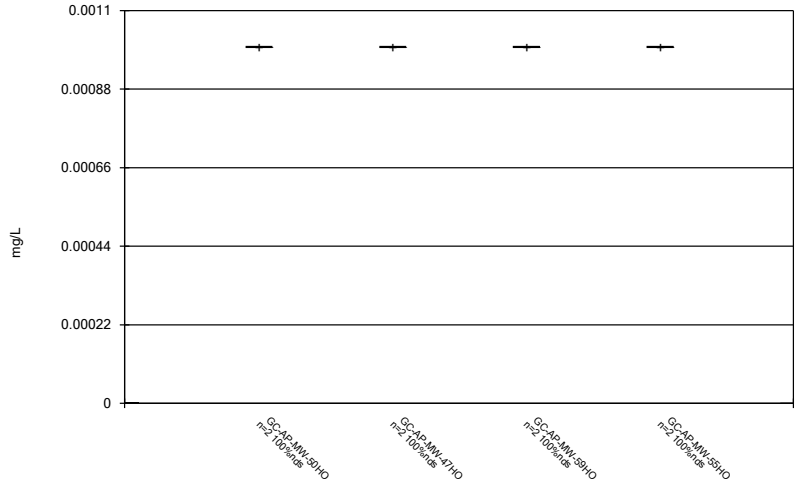

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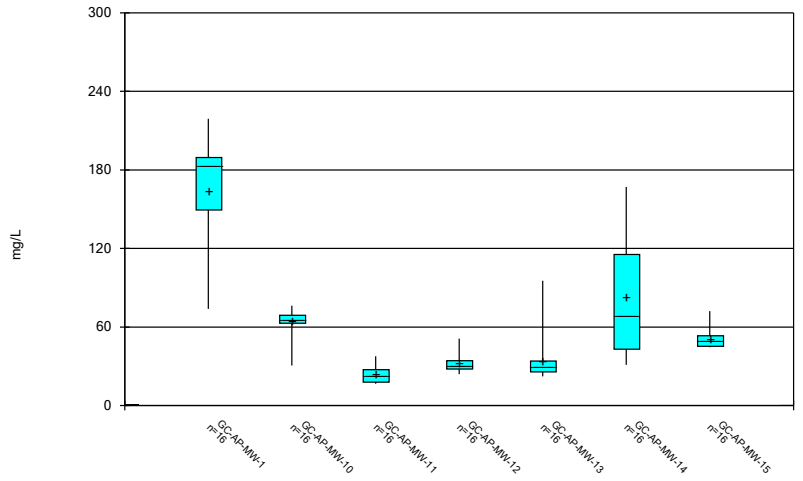

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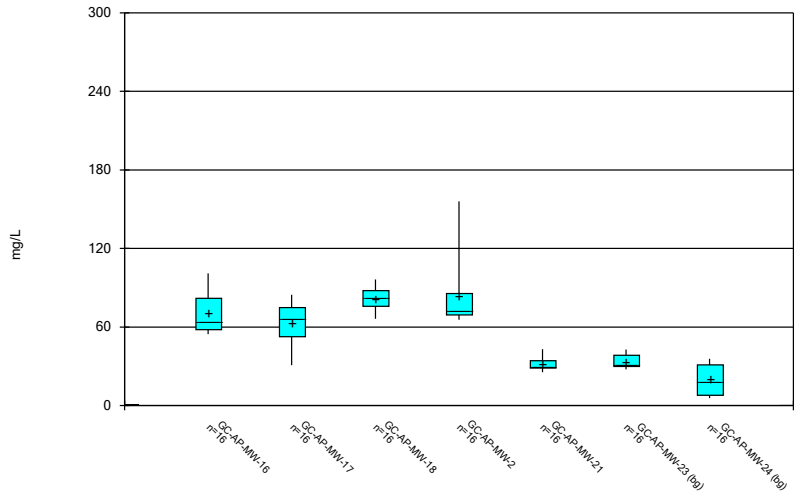

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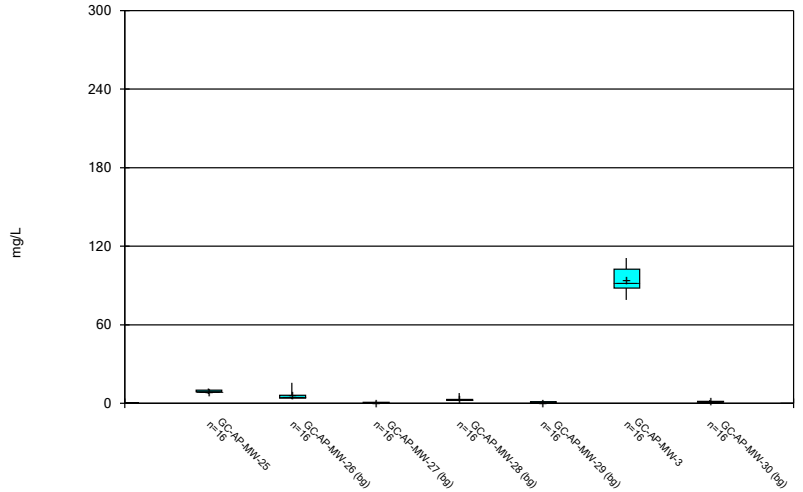

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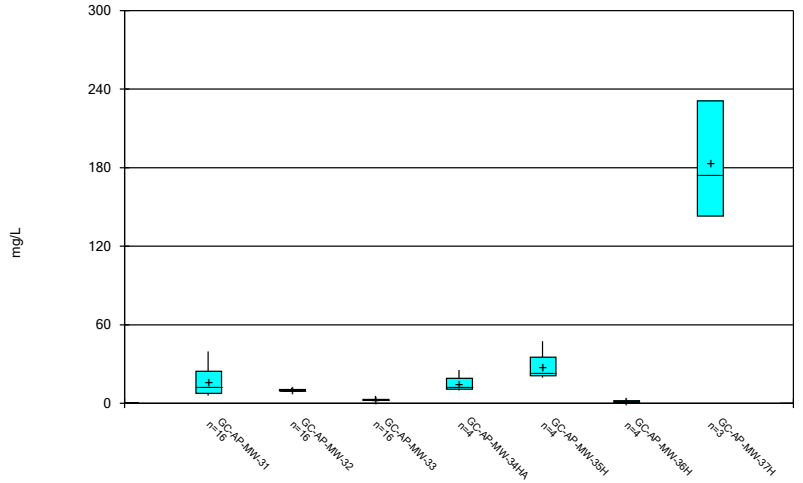

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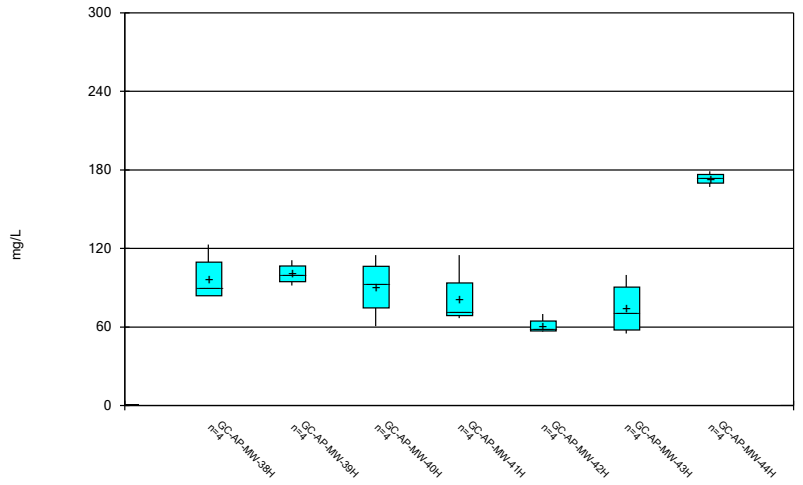

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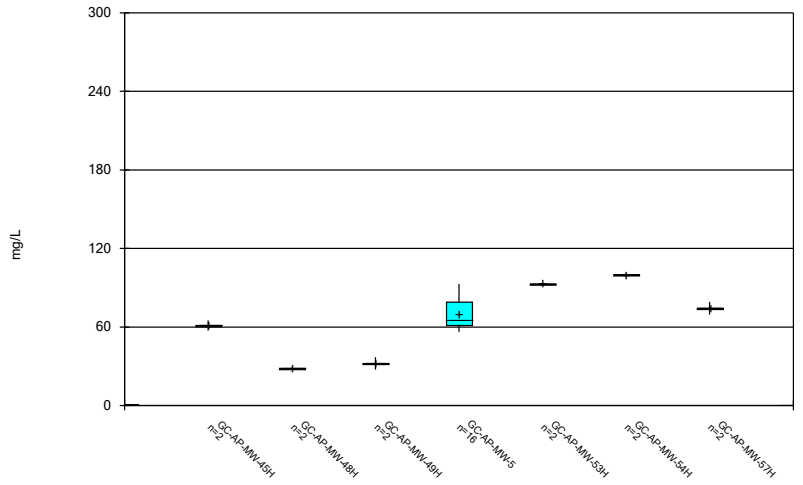

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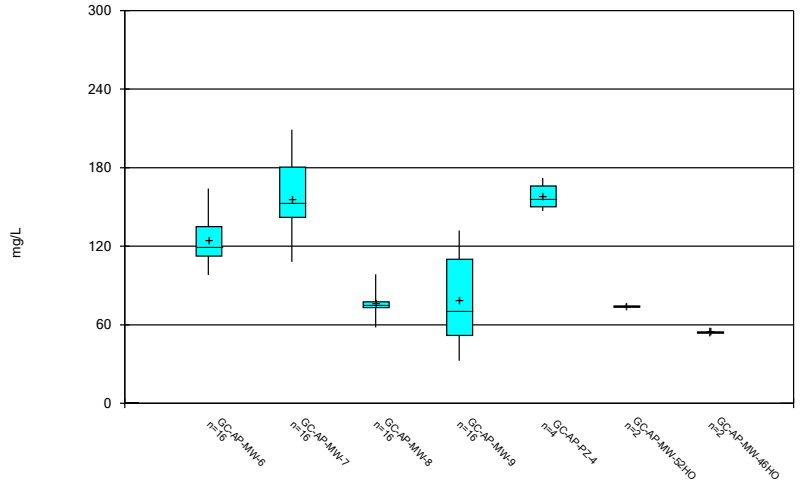

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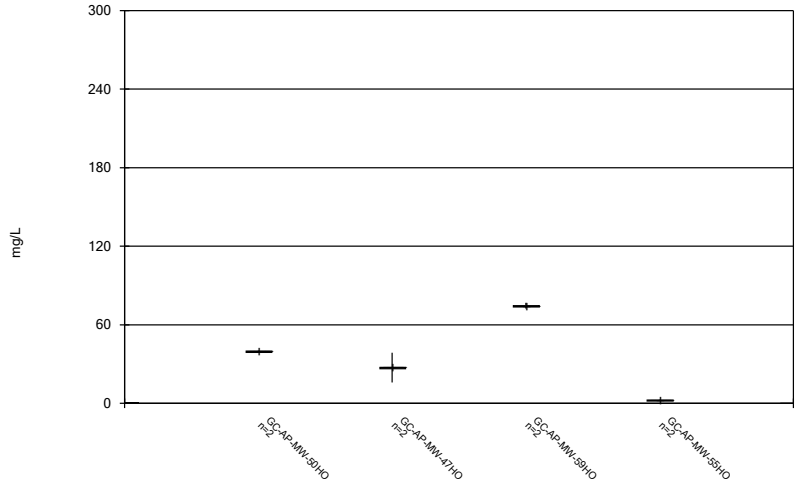

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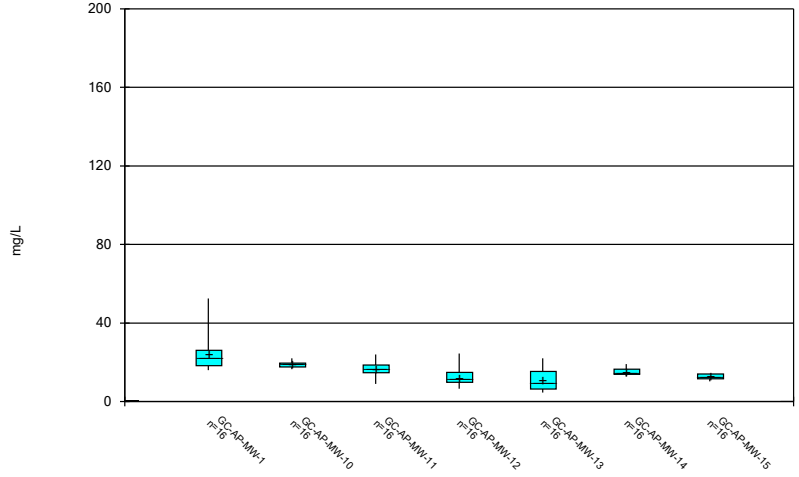

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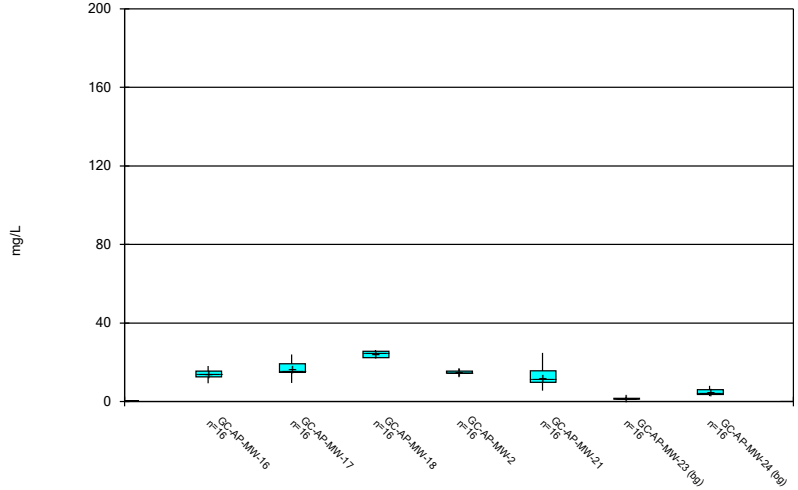
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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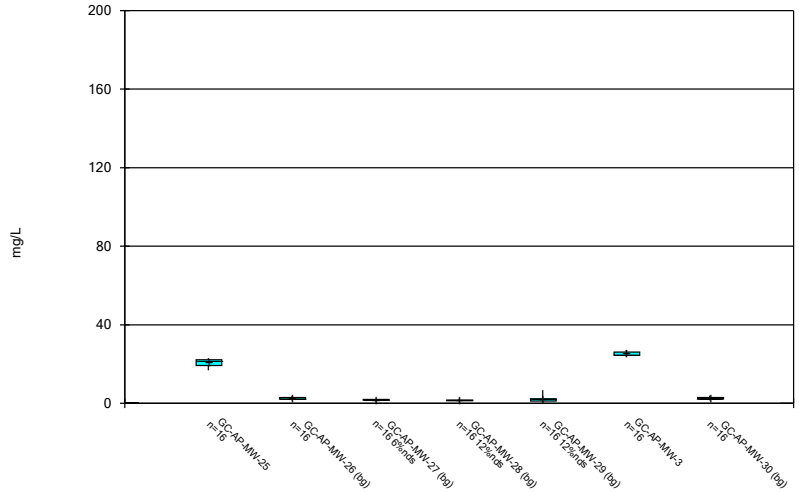

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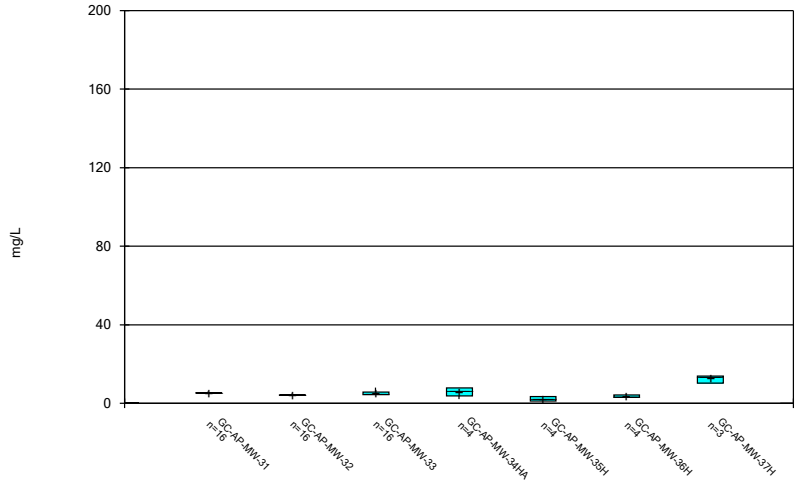

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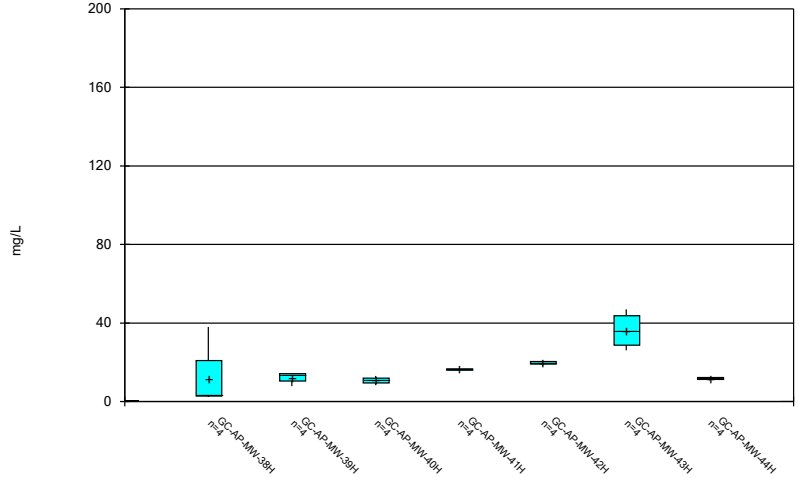

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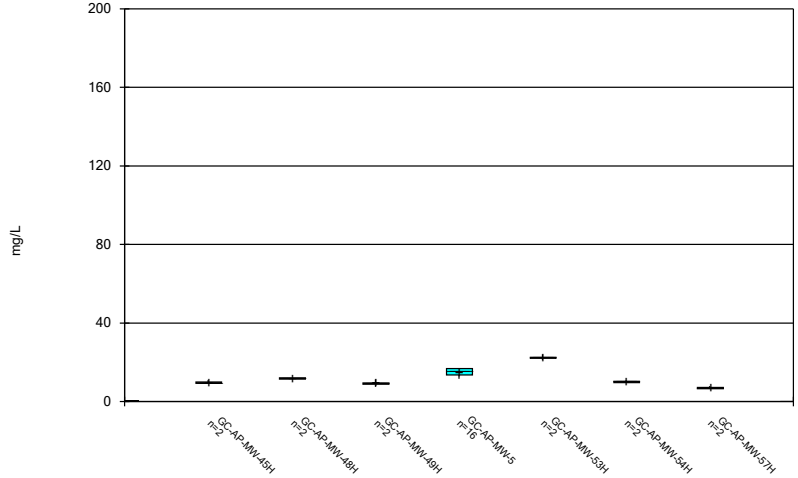

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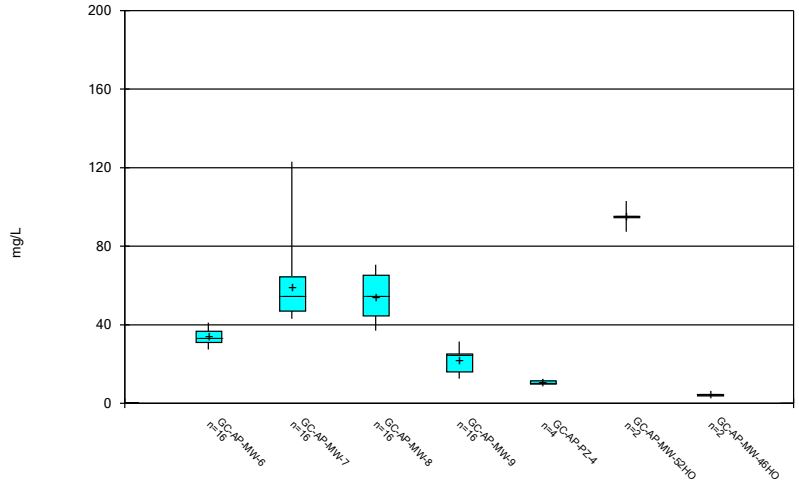

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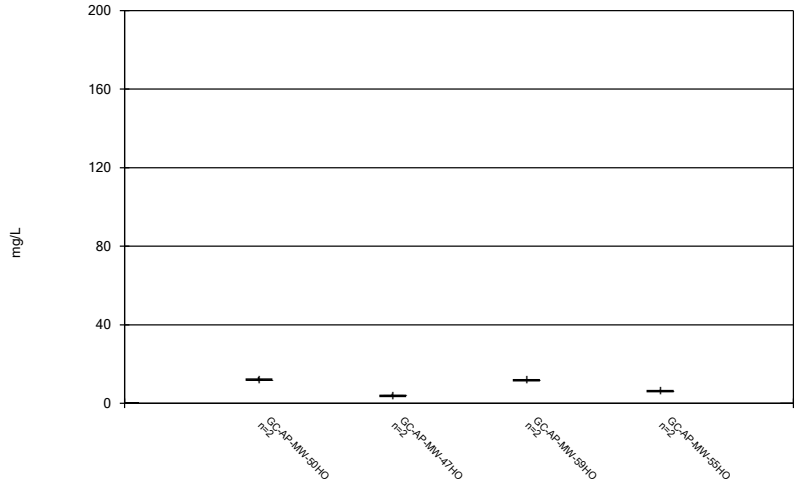

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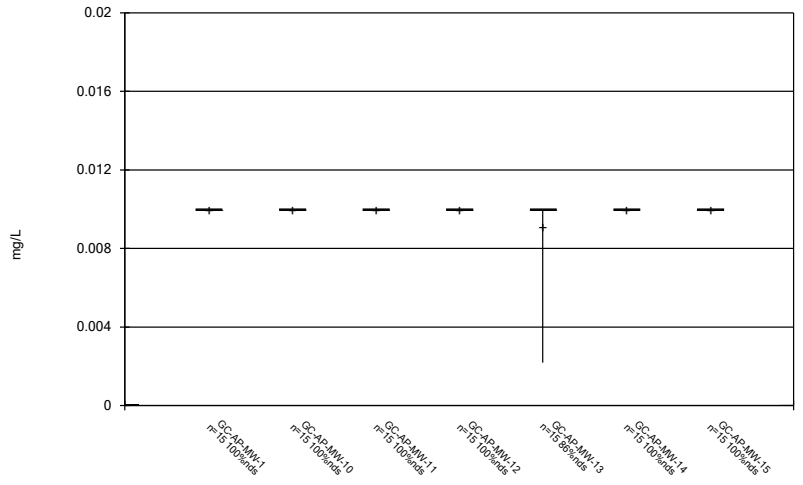

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Plant Greene County Client: Southern Company Data: Greene County AP

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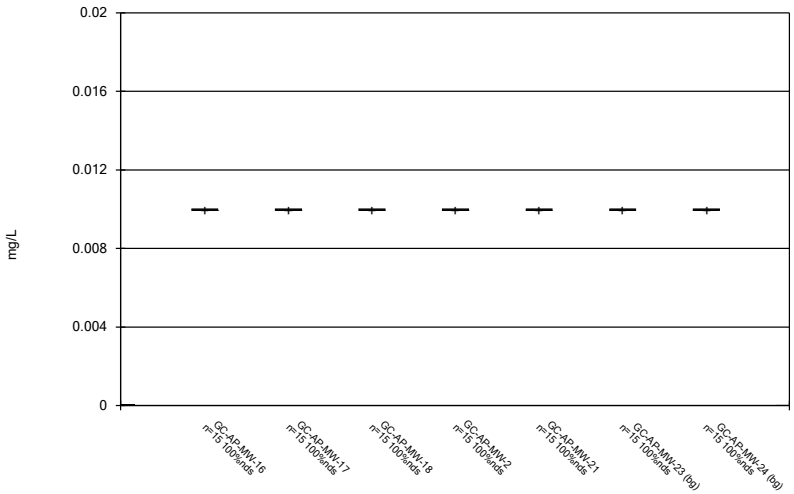
Box & Whiskers Plot



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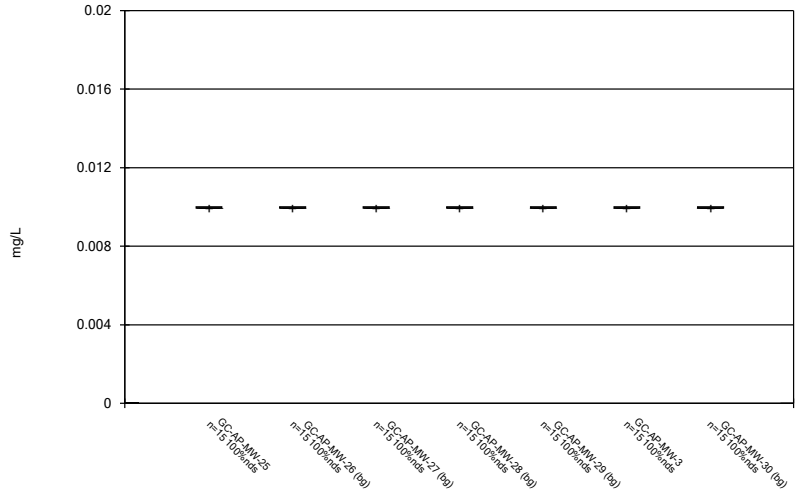

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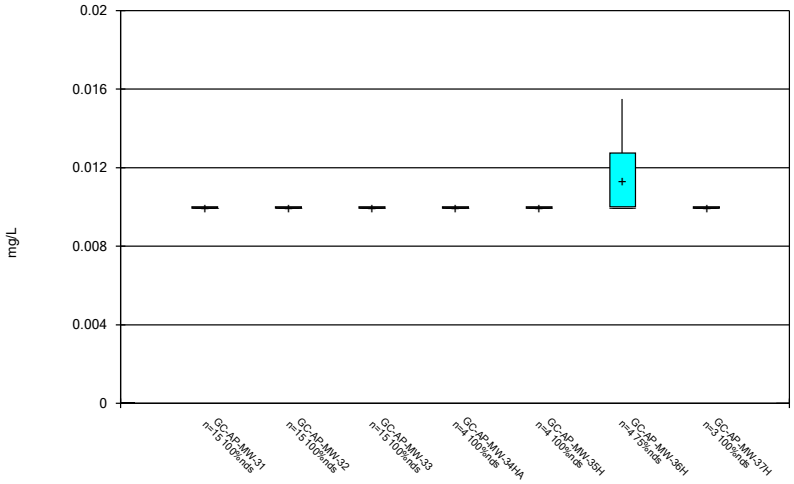

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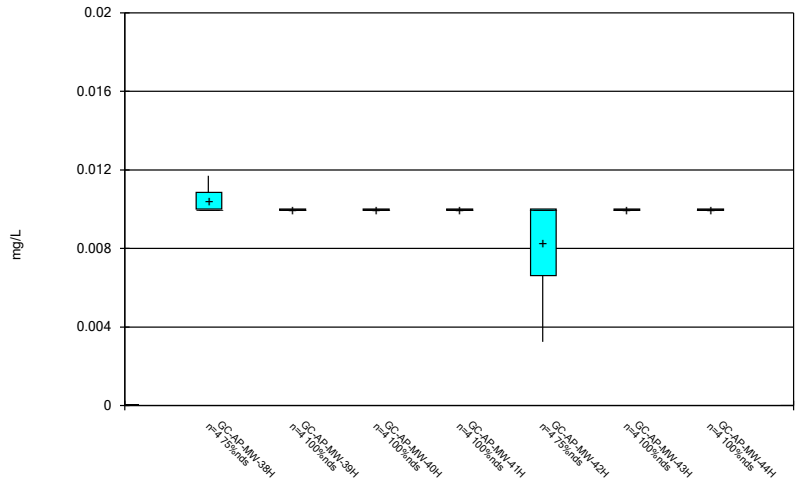

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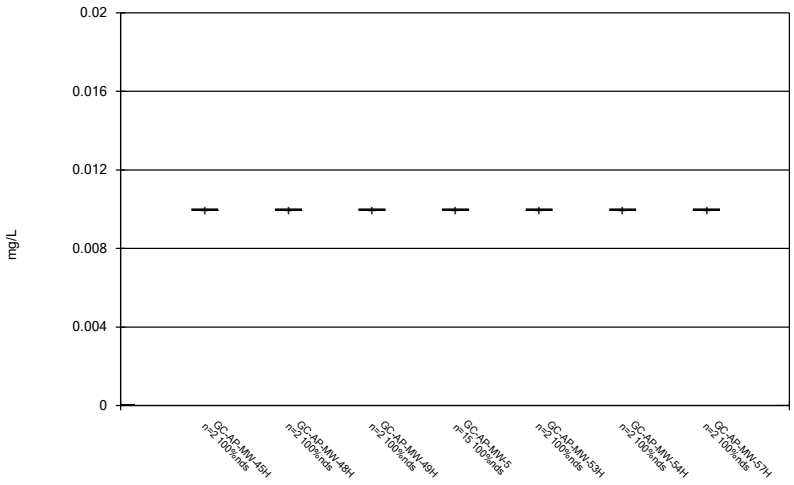

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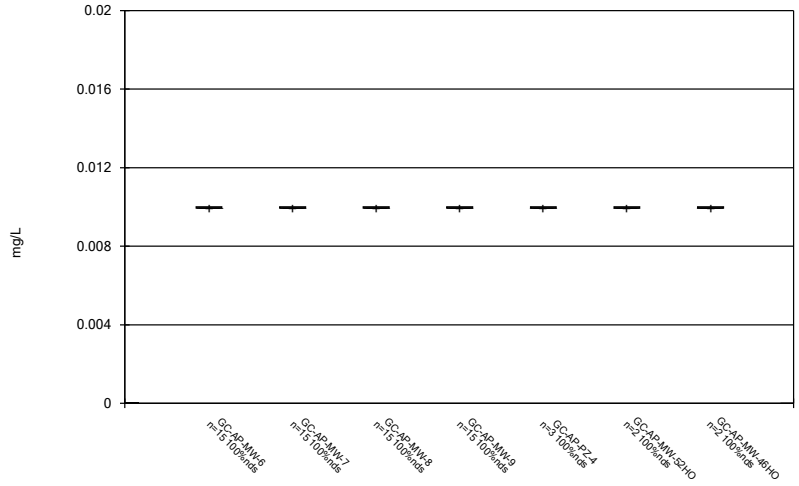

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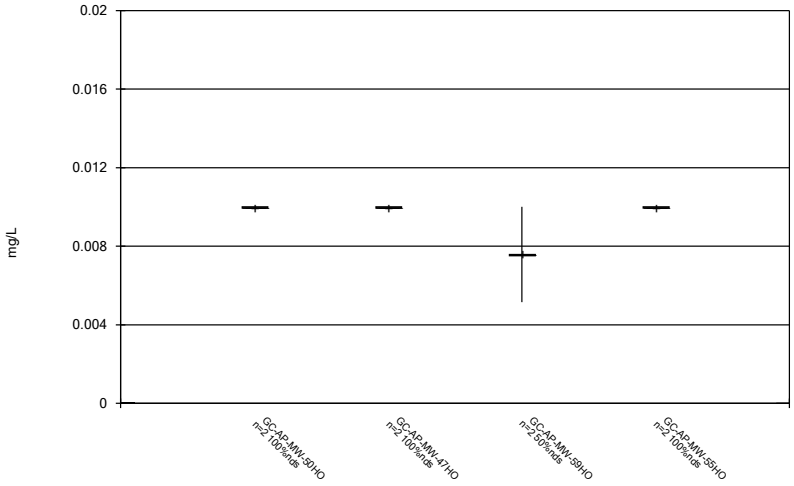

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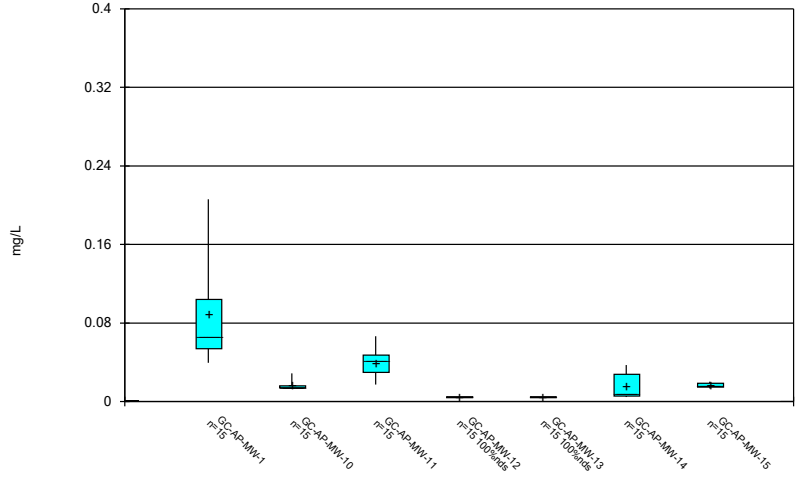

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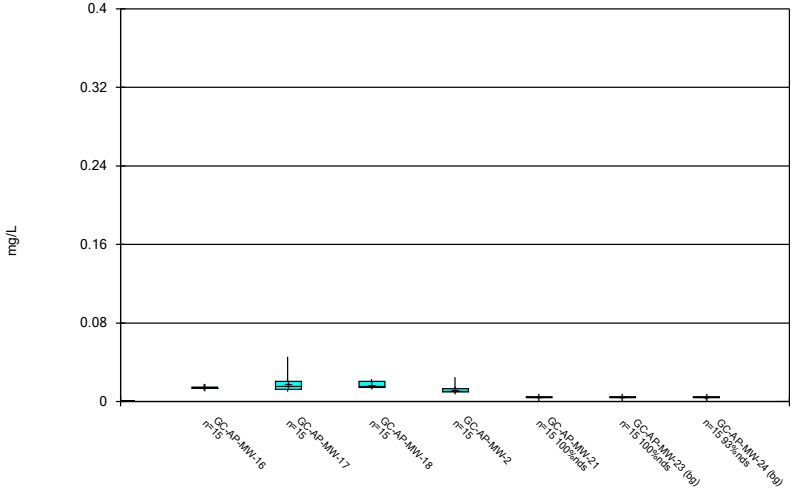
Box & Whiskers Plot



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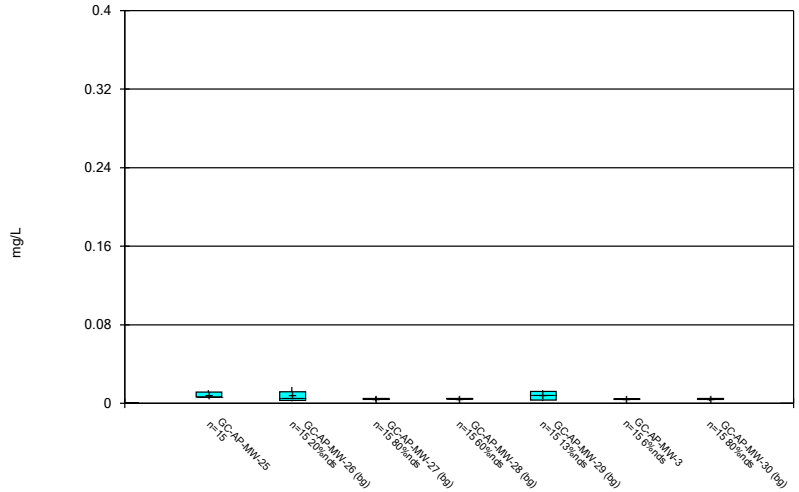

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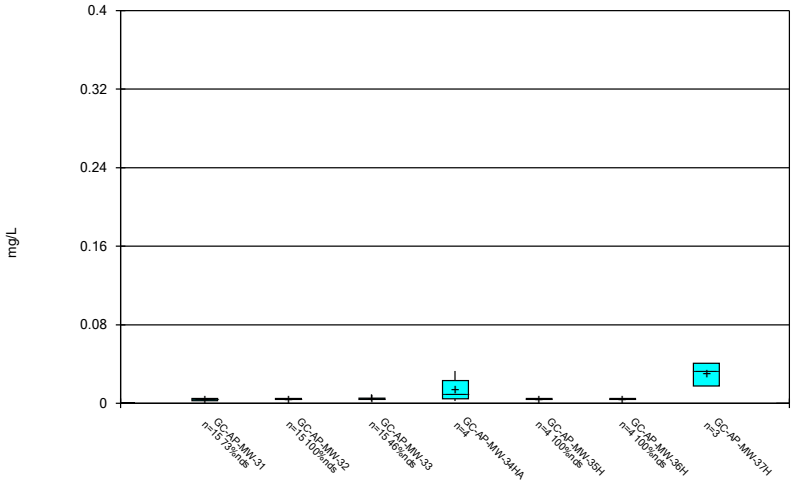

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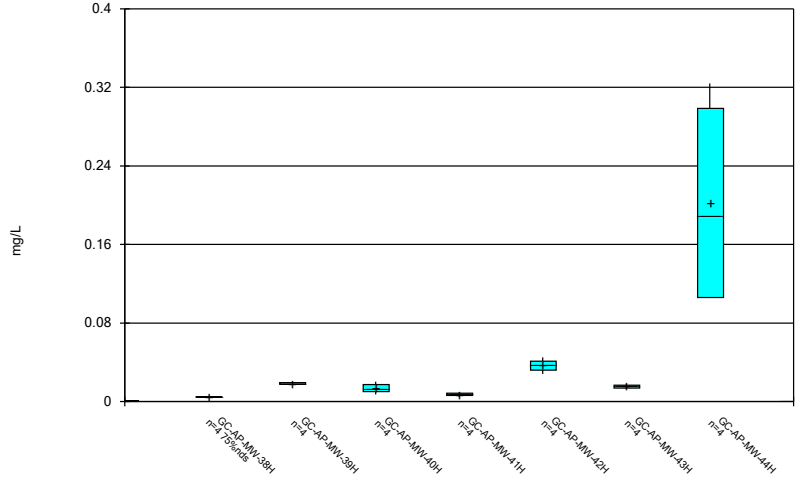

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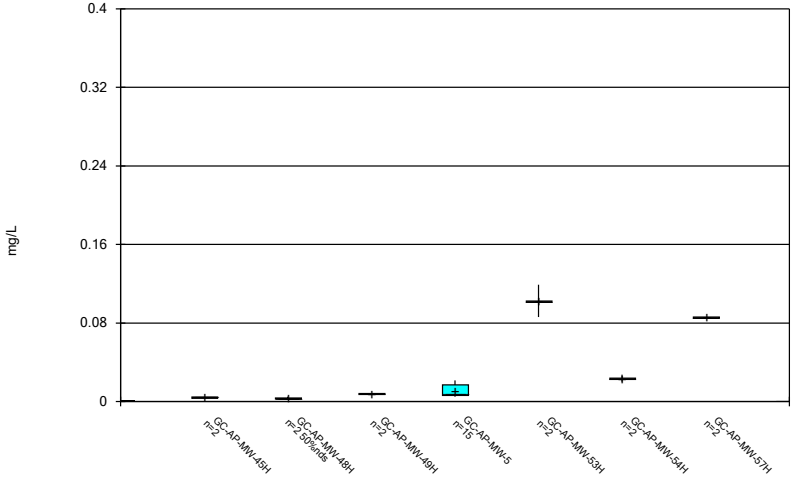

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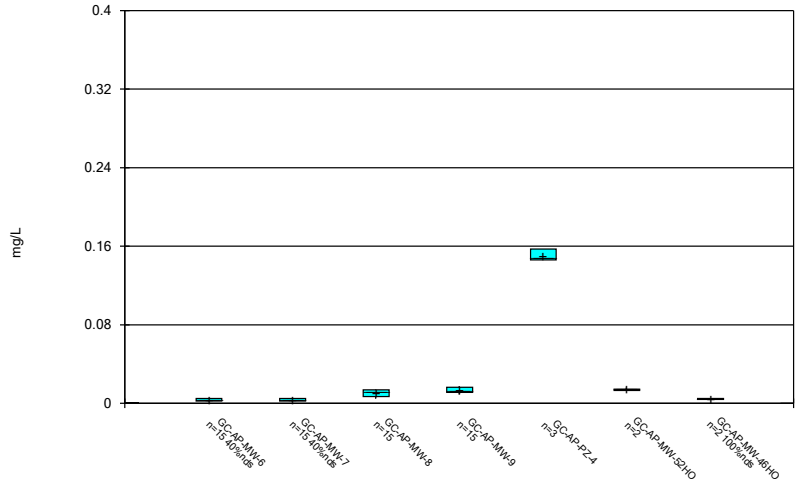

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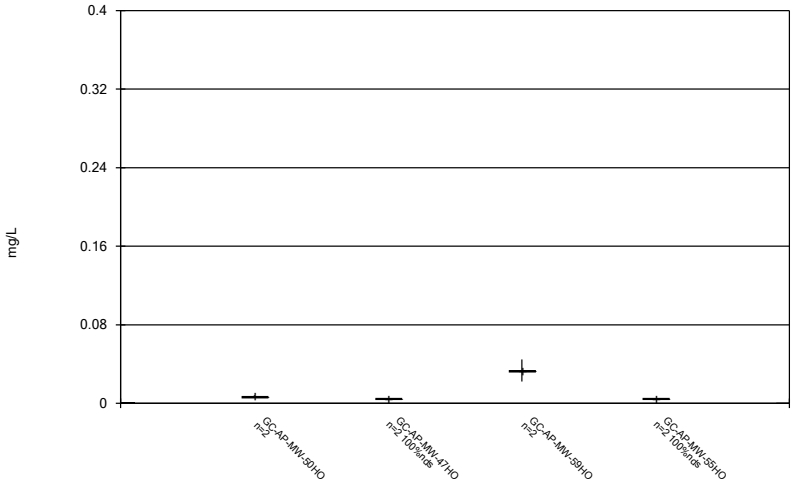

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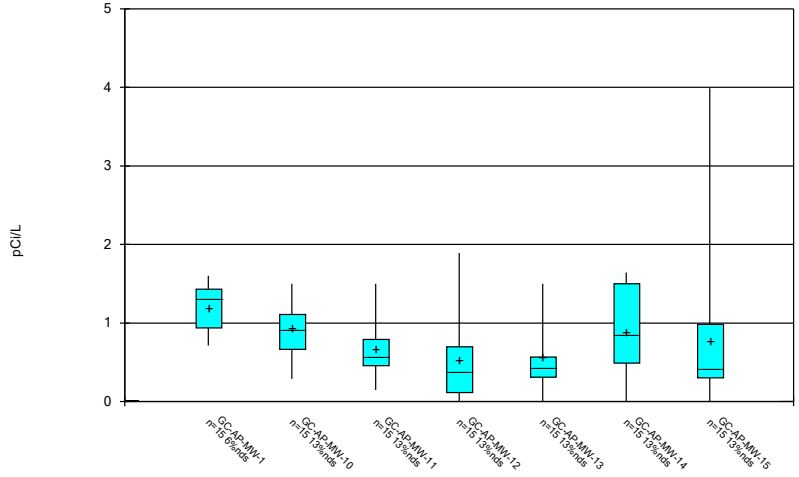
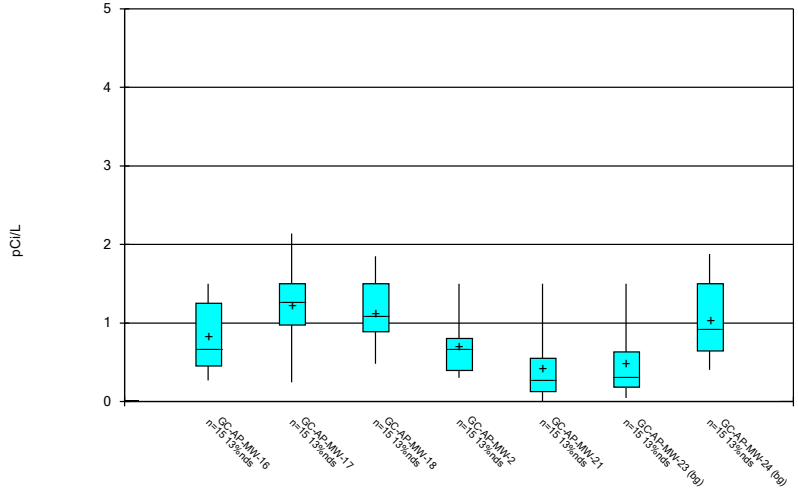


Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:57 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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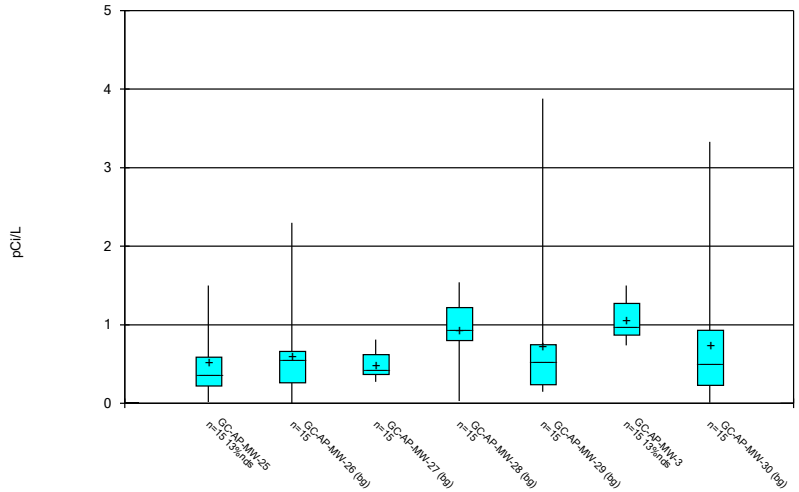

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Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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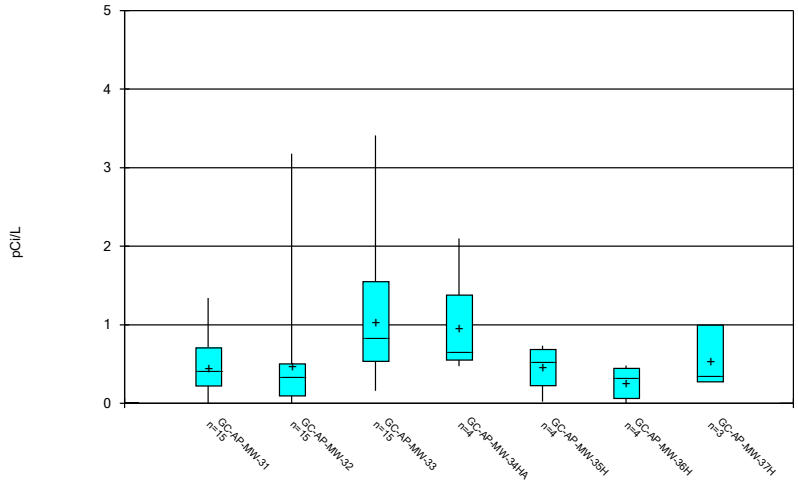

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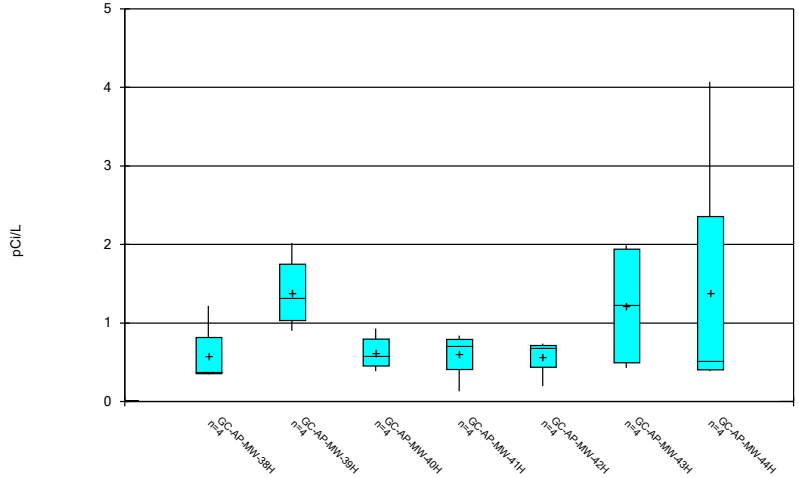

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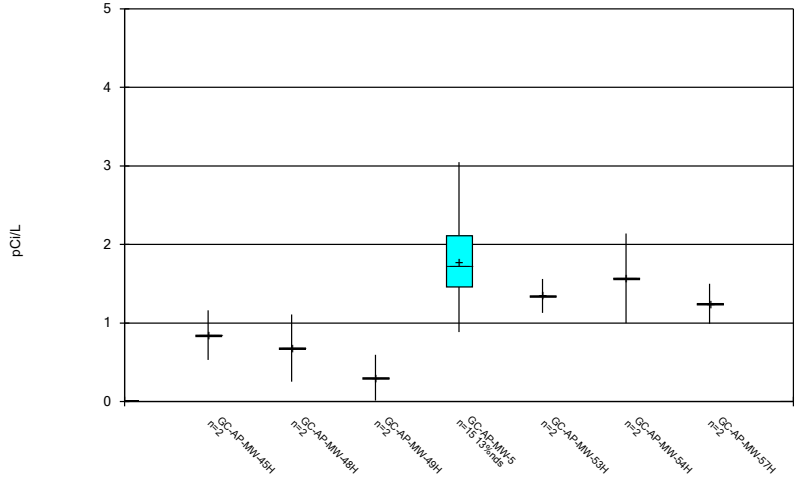
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

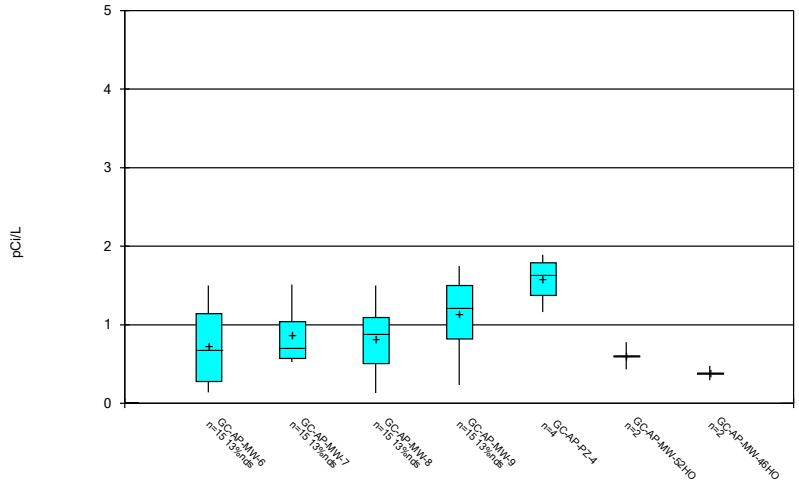


Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:57 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

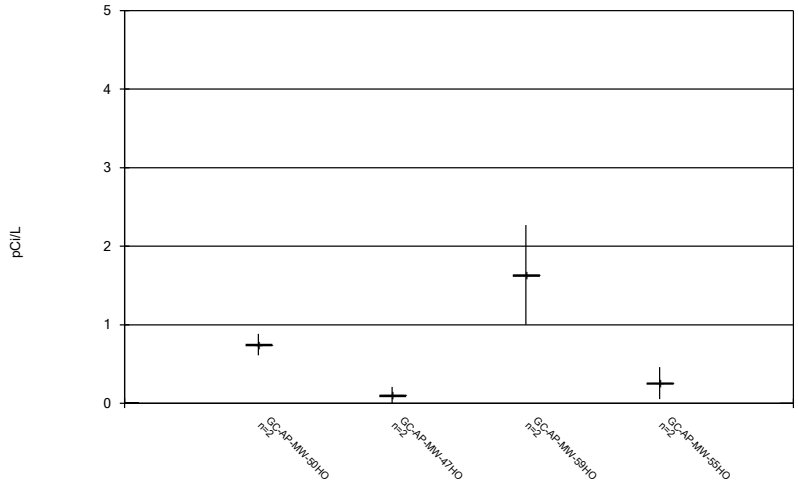


Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:57 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

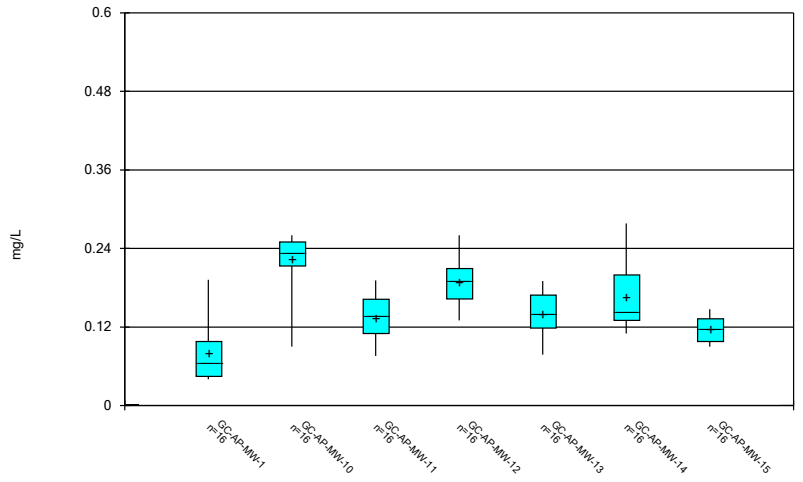


Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:57 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

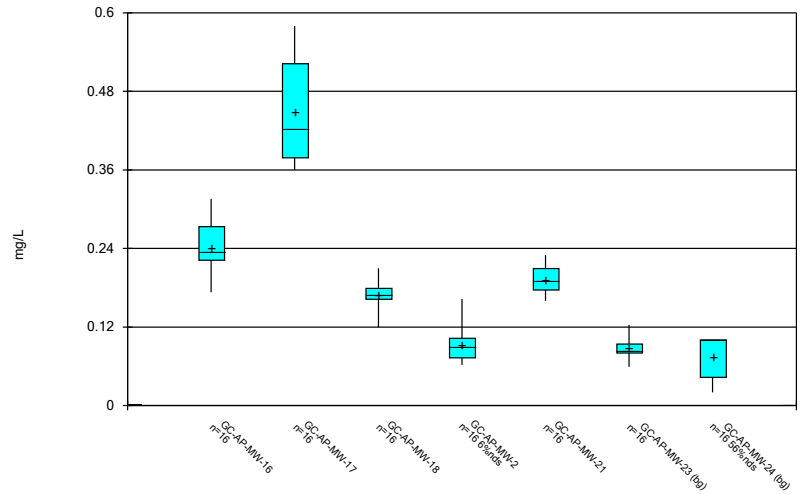


Constituent: Fluoride Analysis Run 10/26/2020 4:57 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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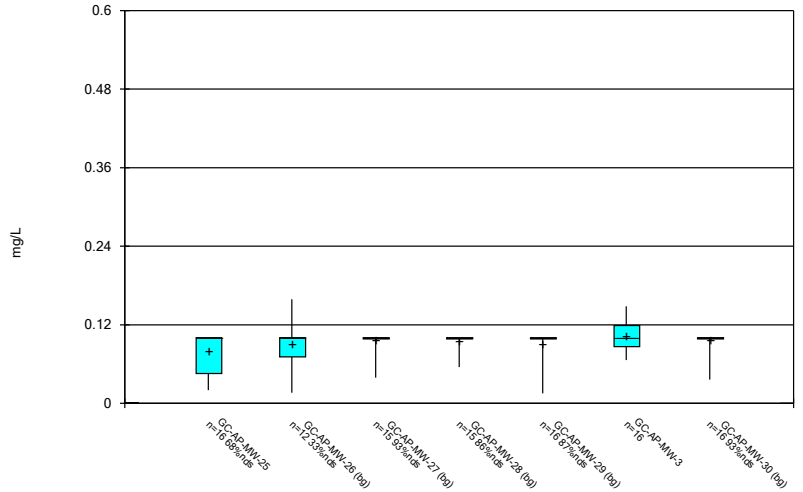
Box & Whiskers Plot



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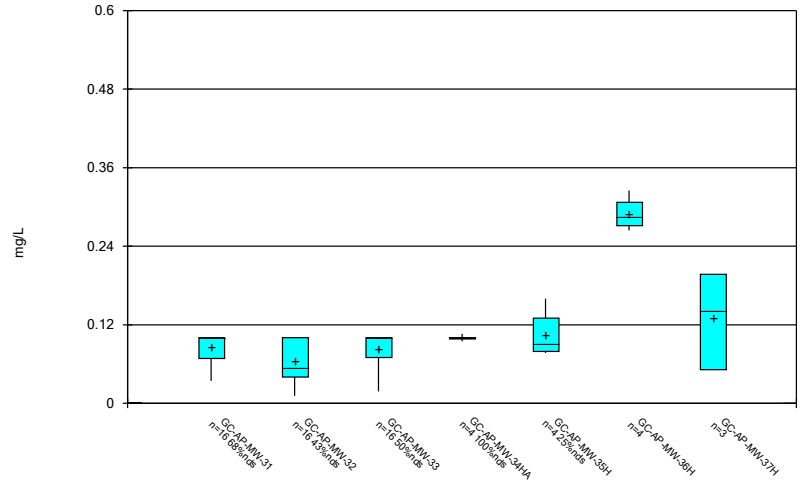
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Greene County Client: Southern Company Data: Greene County AP

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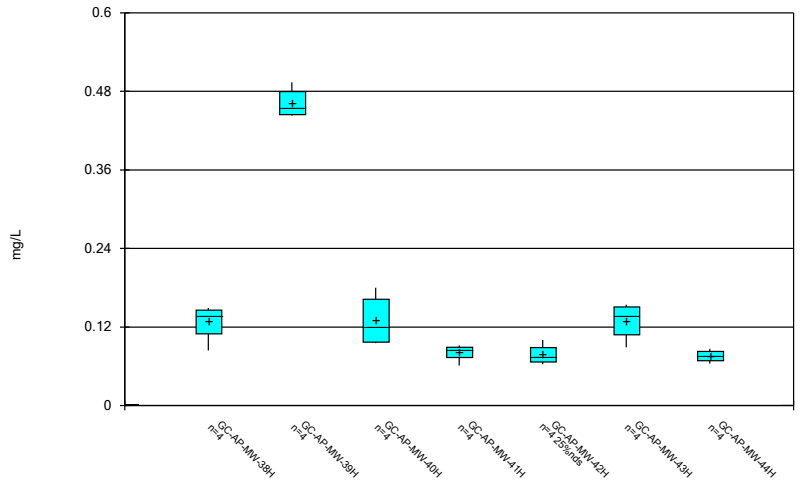
Box & Whiskers Plot



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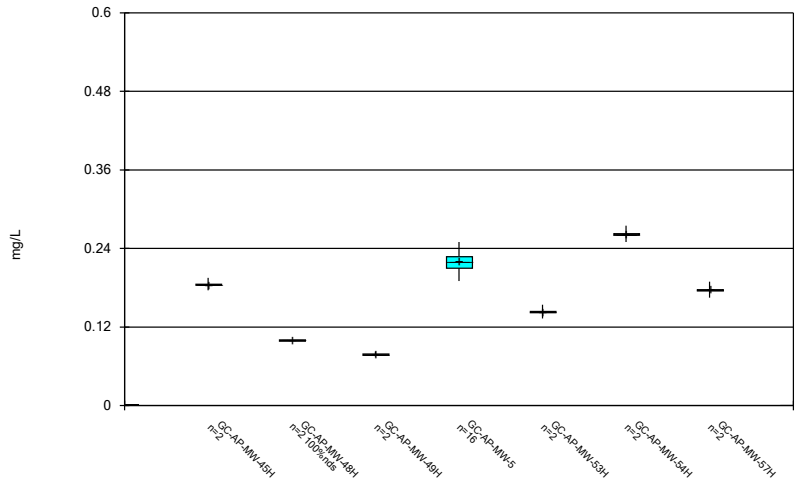
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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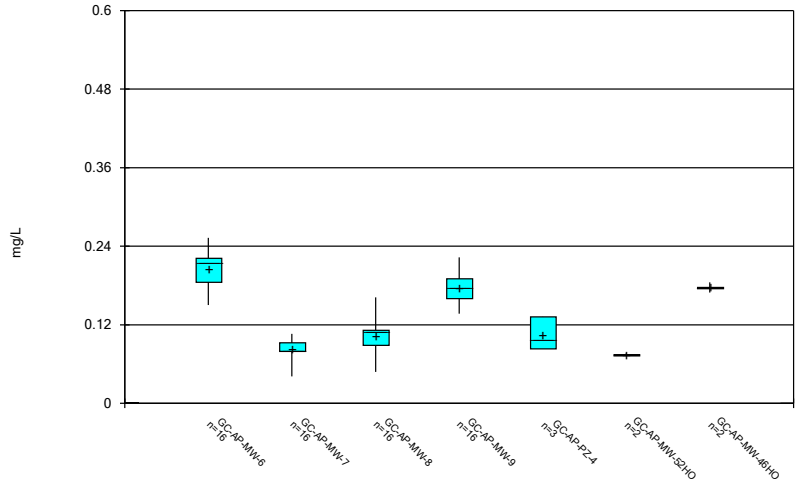
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Greene County Client: Southern Company Data: Greene County AP

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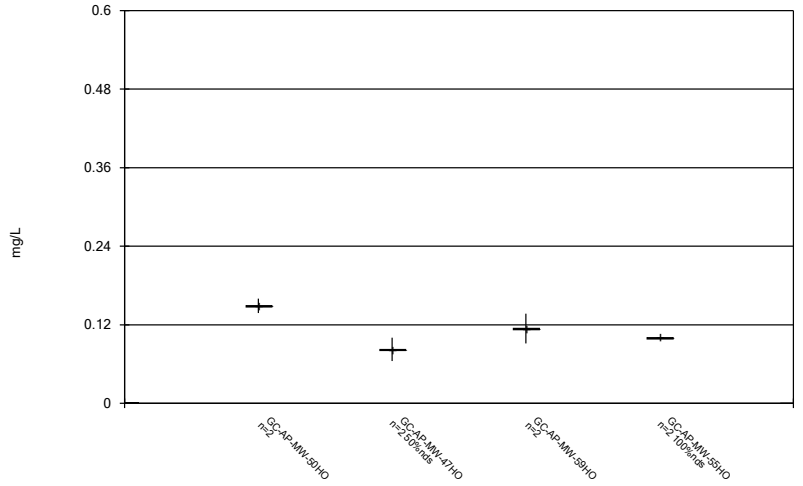
Box & Whiskers Plot



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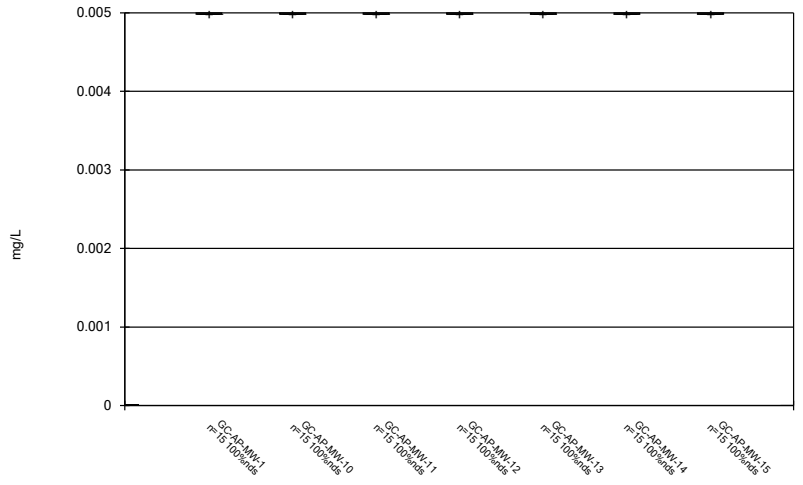
Box & Whiskers Plot



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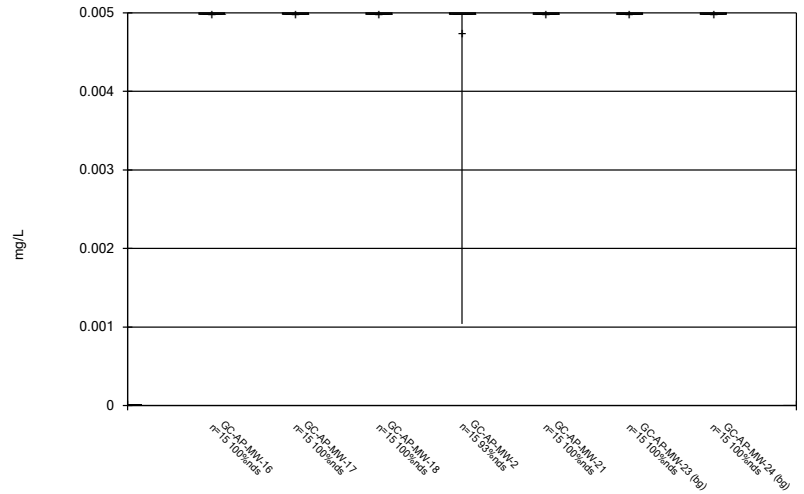
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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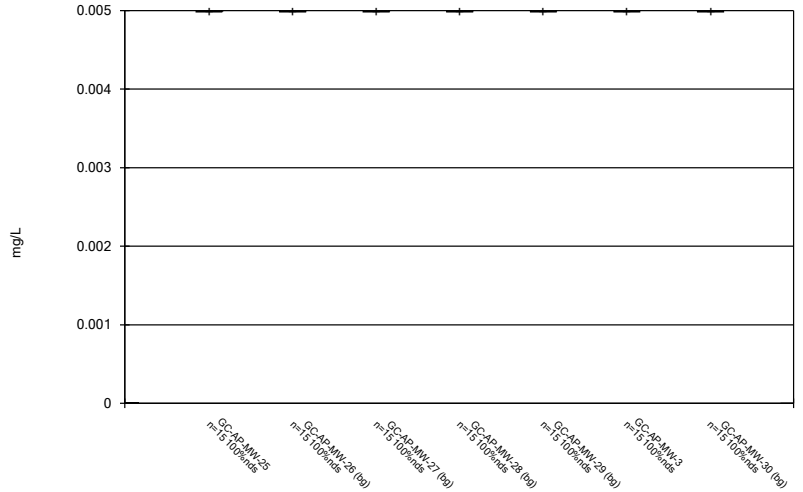
Box & Whiskers Plot



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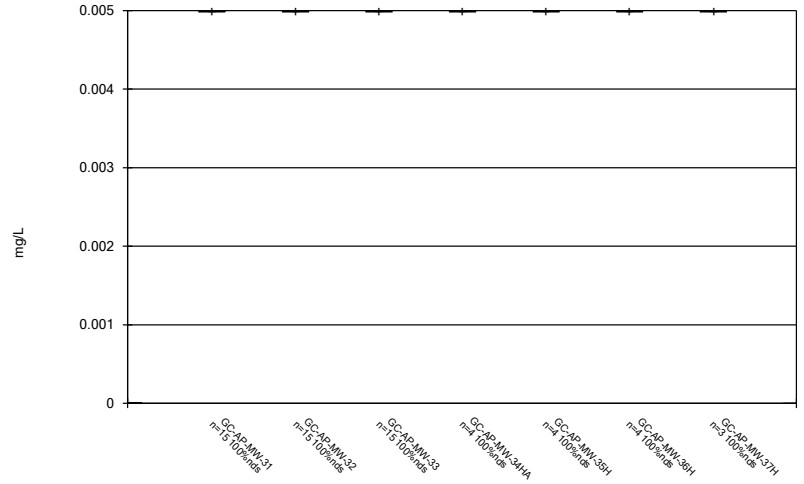

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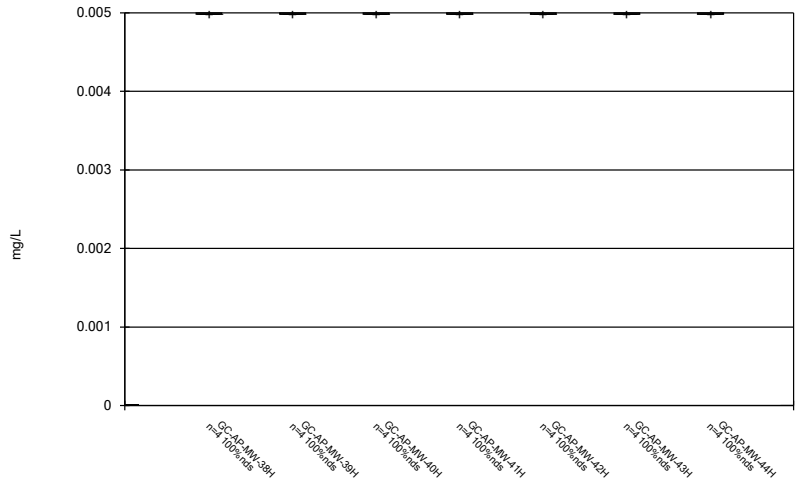

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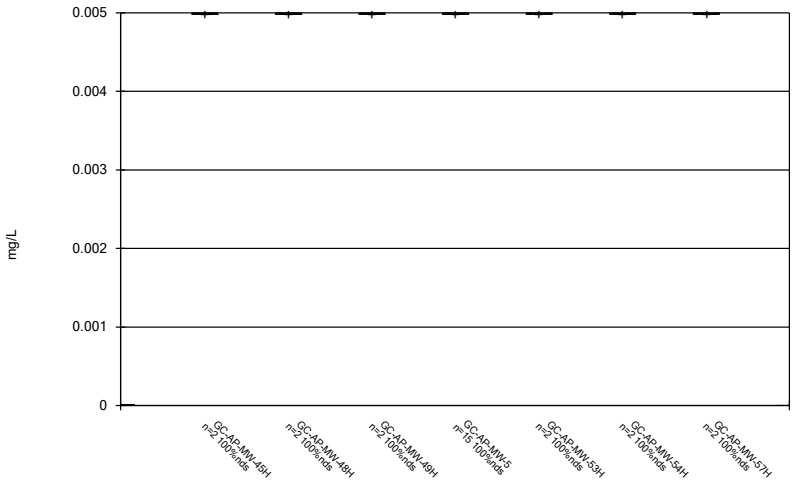

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Plant Greene County Client: Southern Company Data: Greene County AP

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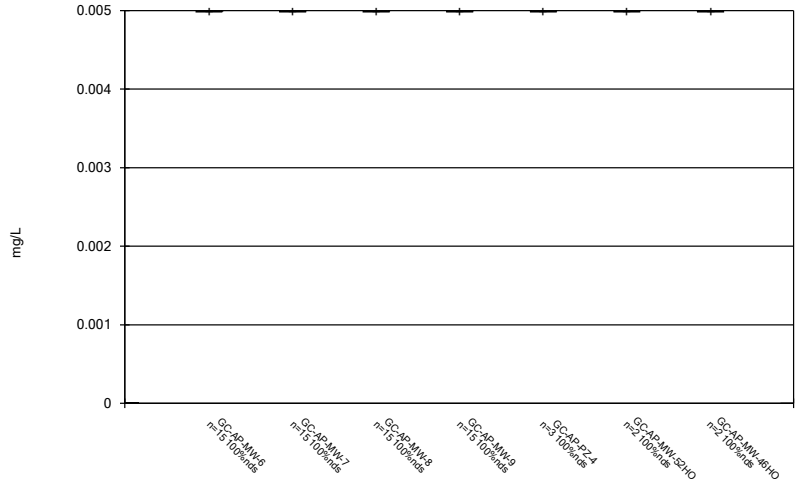

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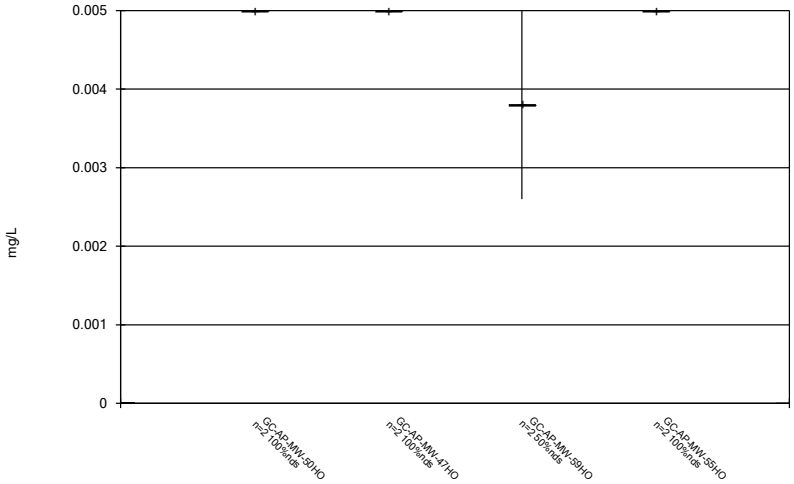

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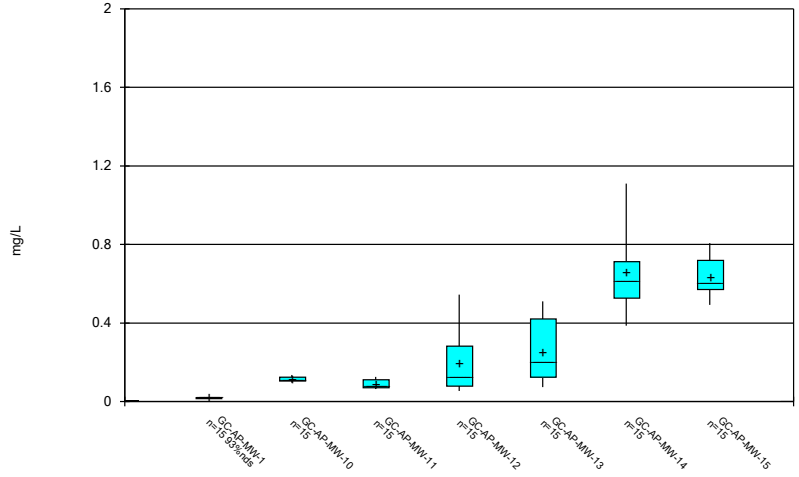

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Plant Greene County Client: Southern Company Data: Greene County AP

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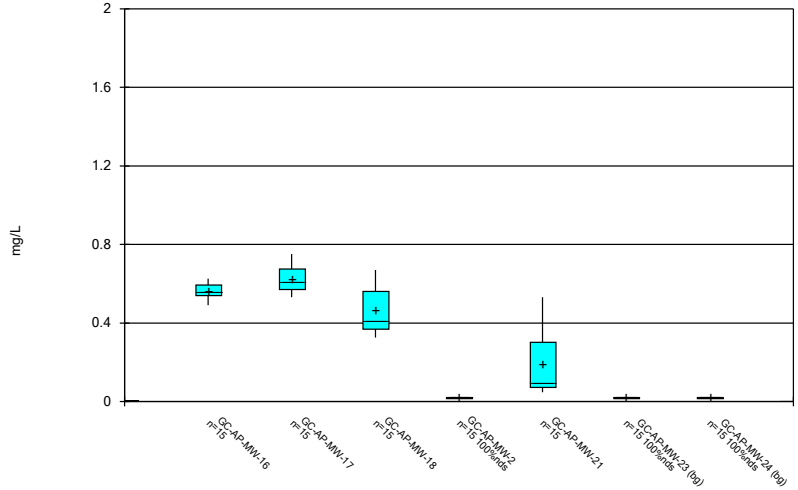
Box & Whiskers Plot



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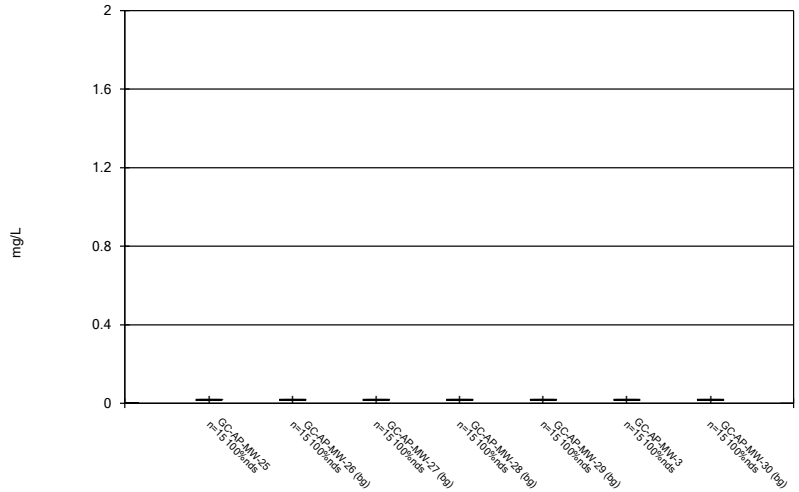

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Plant Greene County Client: Southern Company Data: Greene County AP

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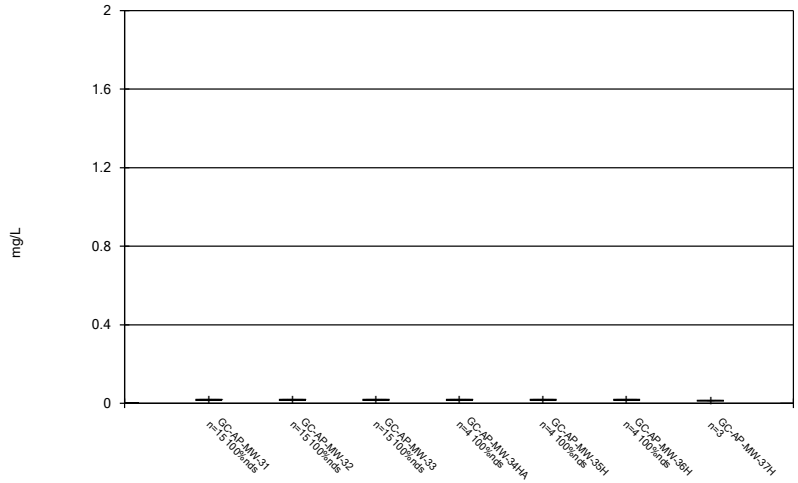

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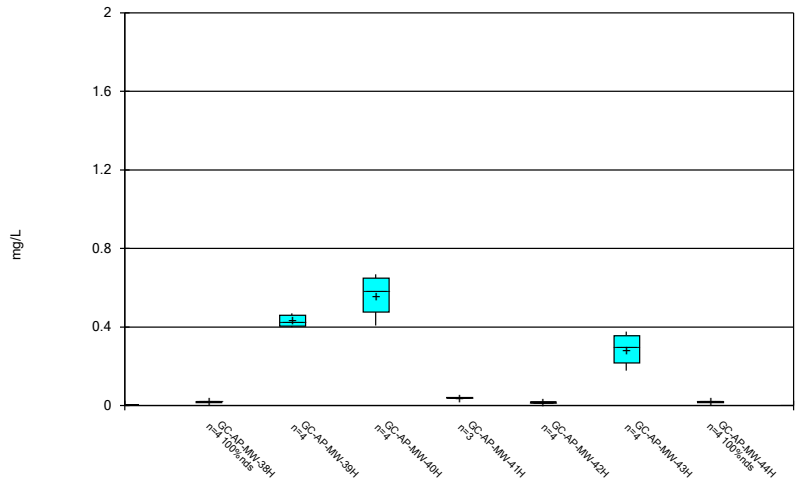

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Plant Greene County Client: Southern Company Data: Greene County AP

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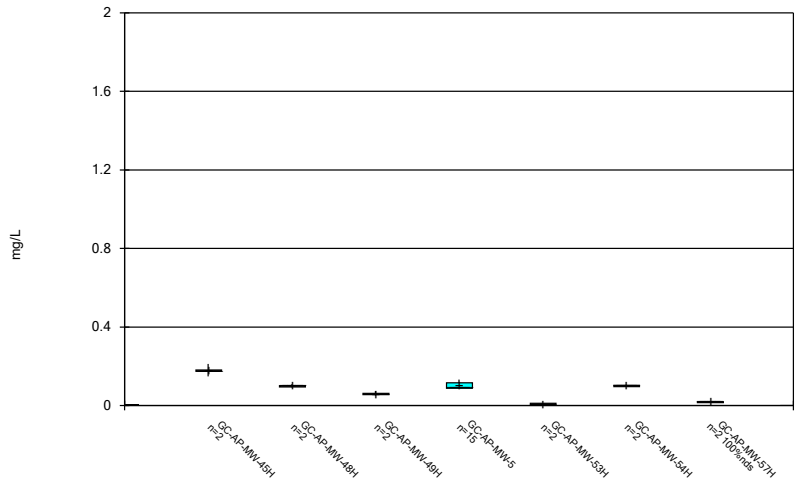

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Plant Greene County Client: Southern Company Data: Greene County AP

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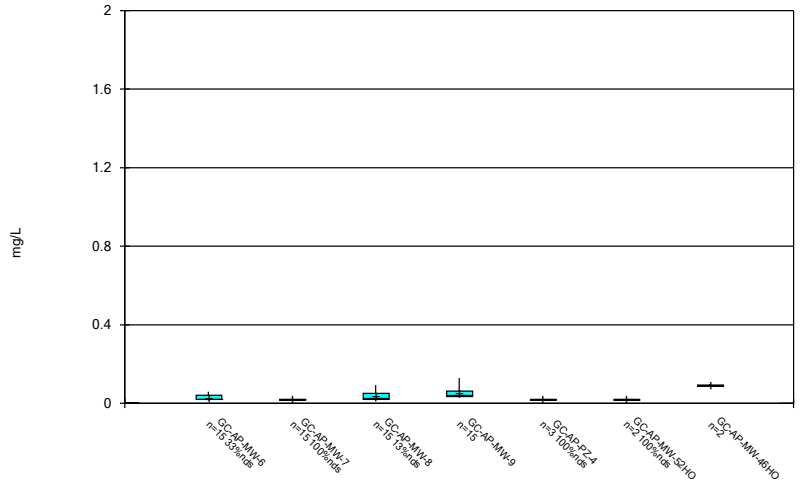
Box & Whiskers Plot



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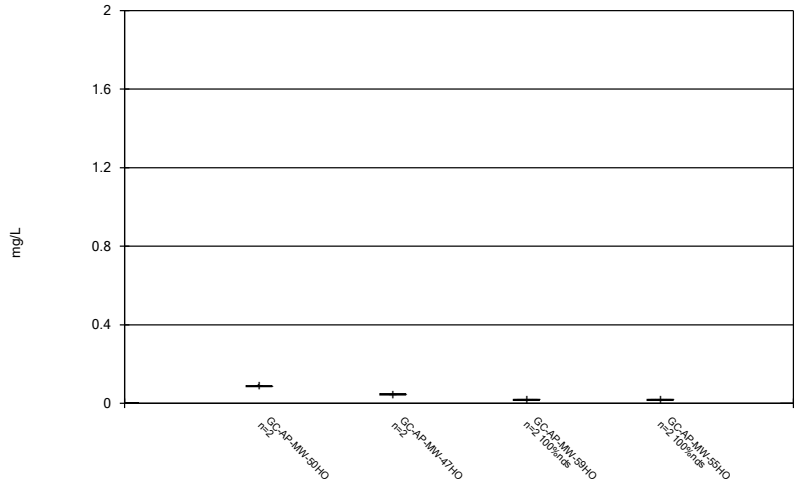

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Plant Greene County Client: Southern Company Data: Greene County AP

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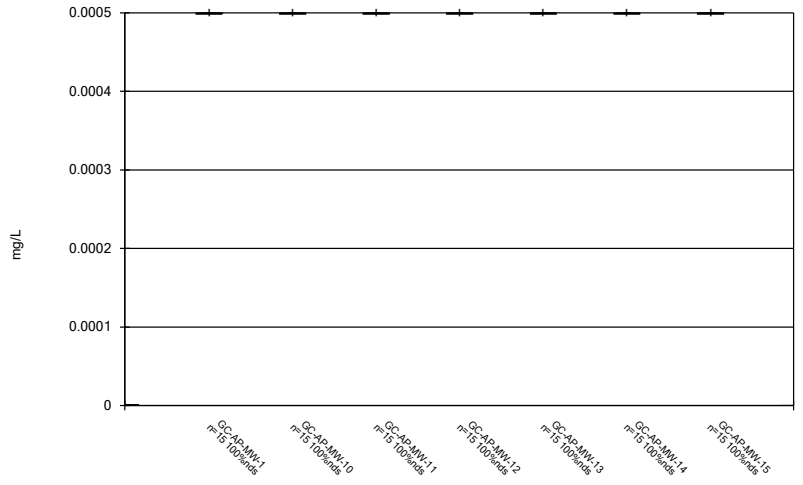

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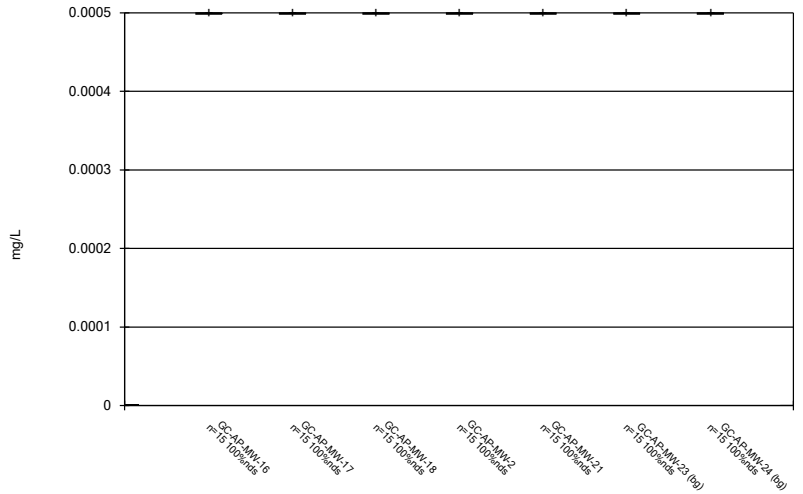
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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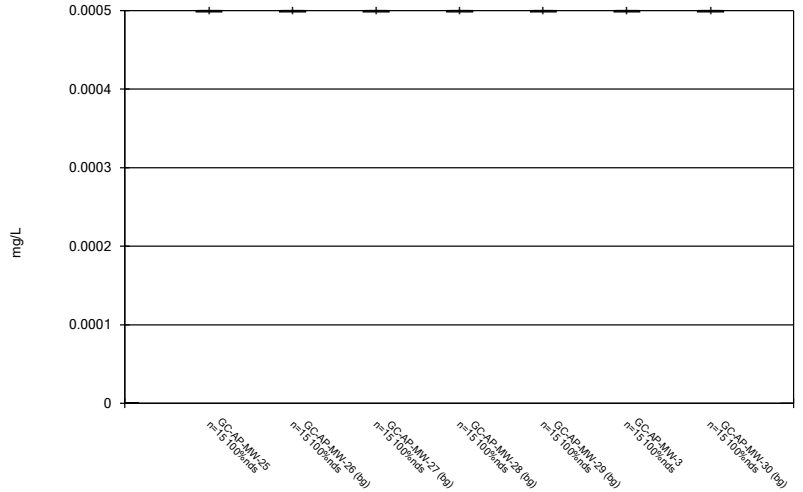
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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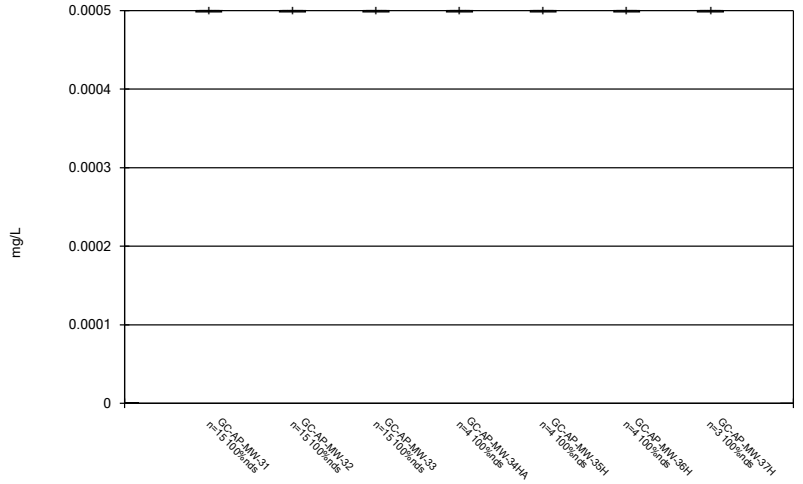

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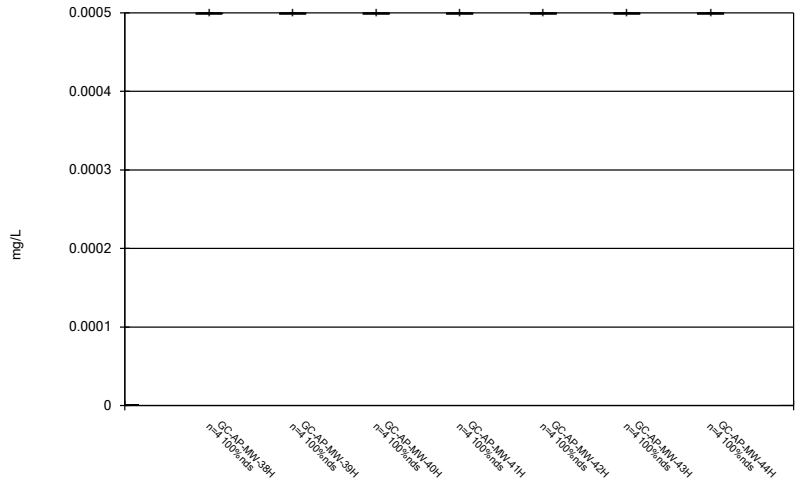

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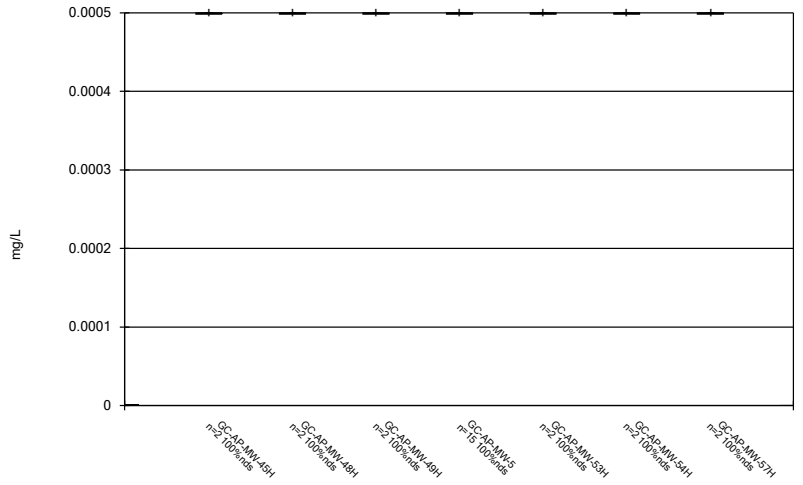

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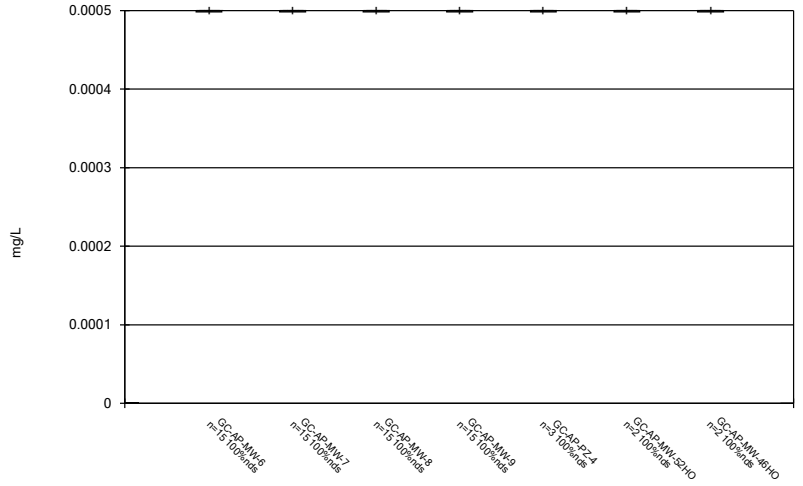

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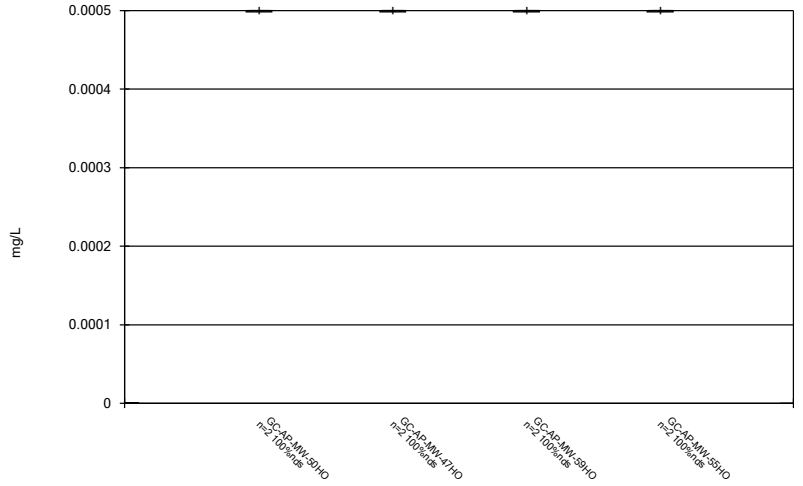

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Plant Greene County Client: Southern Company Data: Greene County AP

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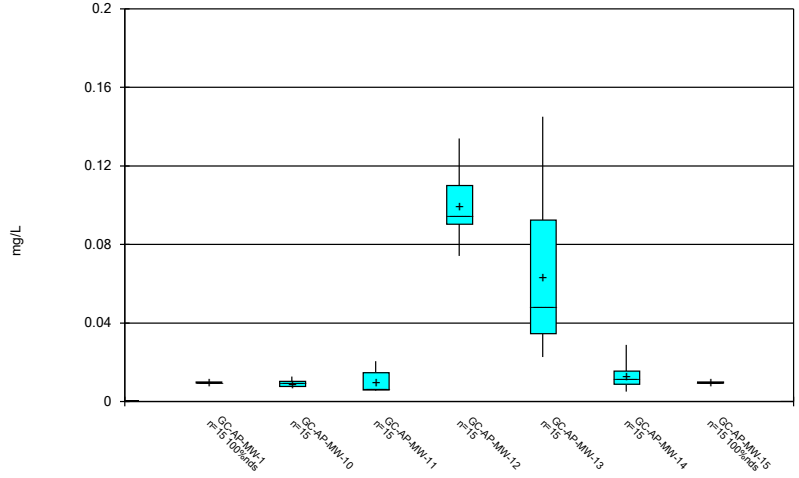

Constituent: Molybdenum Analysis Run 10/26/2020 4:57 PM

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Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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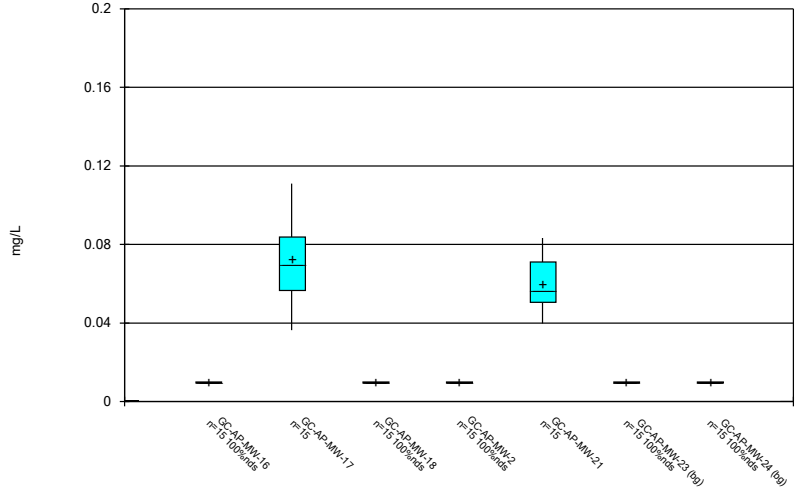

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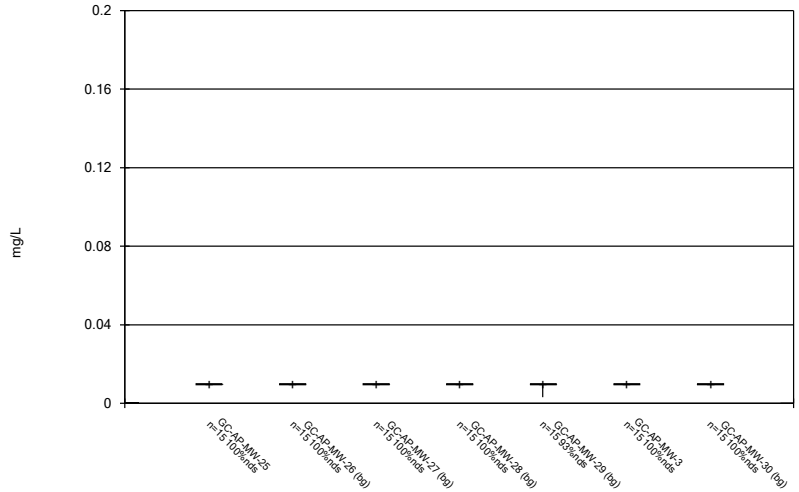

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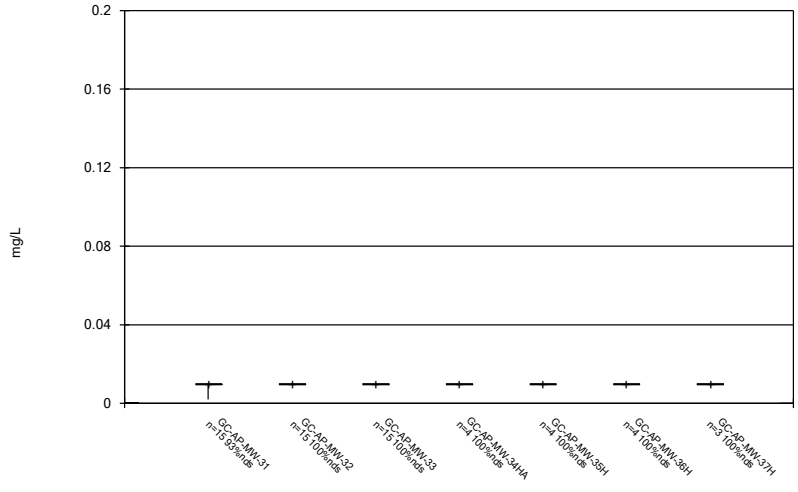

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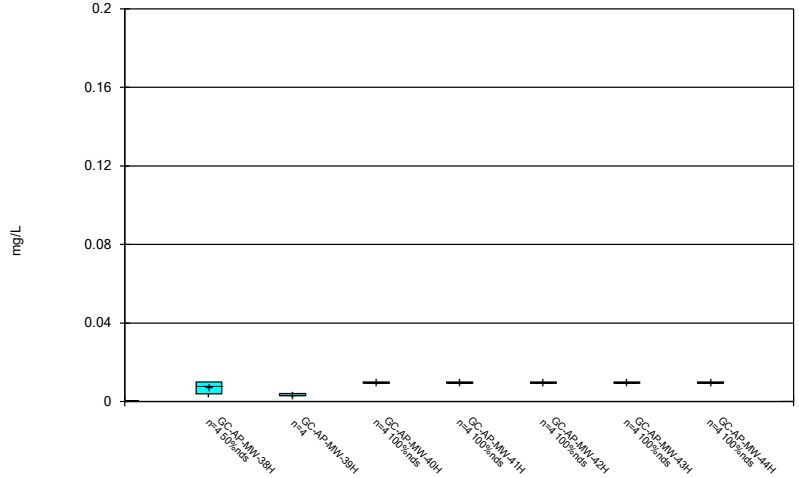

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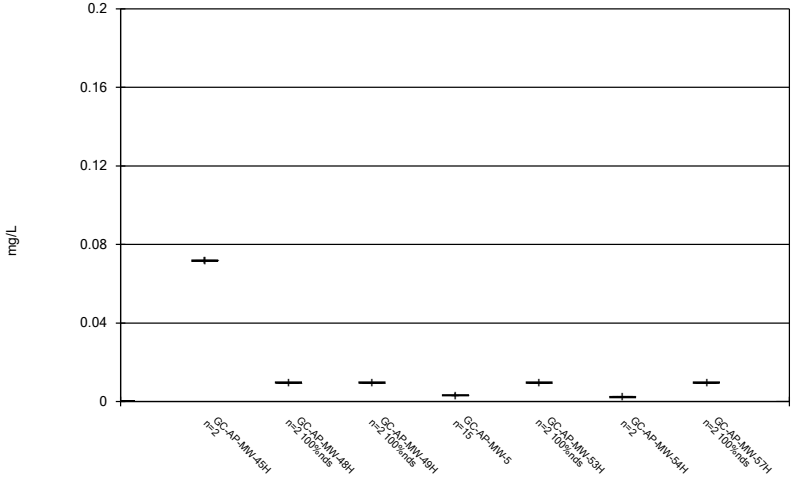
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/26/2020 4:57 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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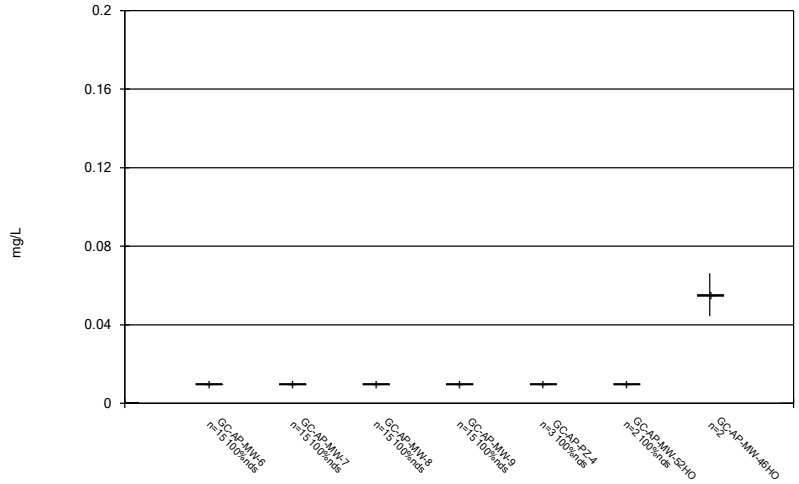

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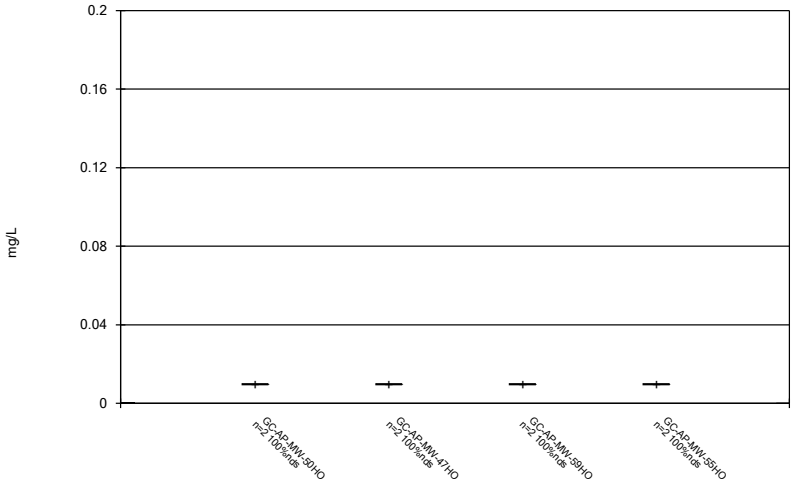

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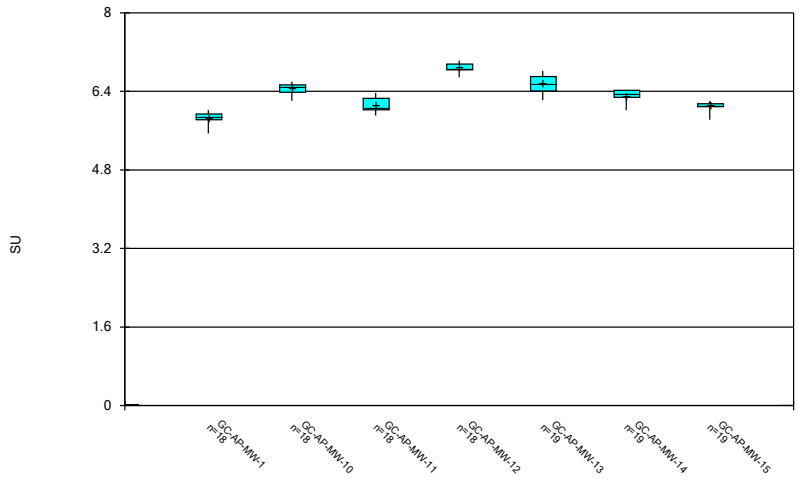

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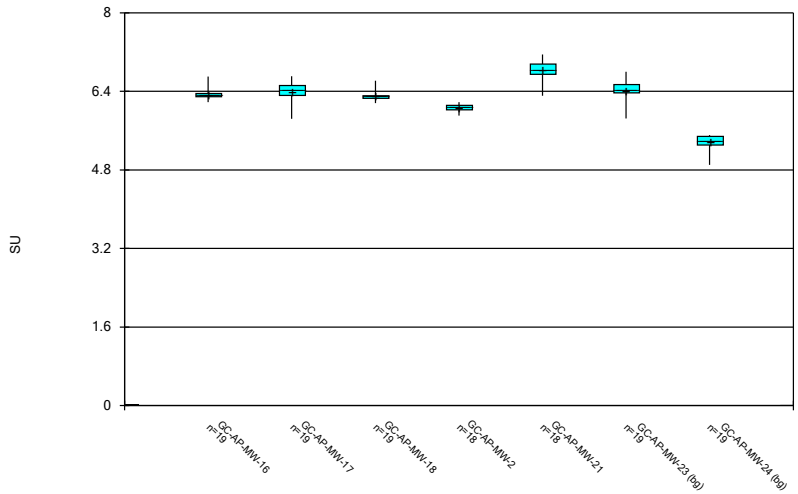

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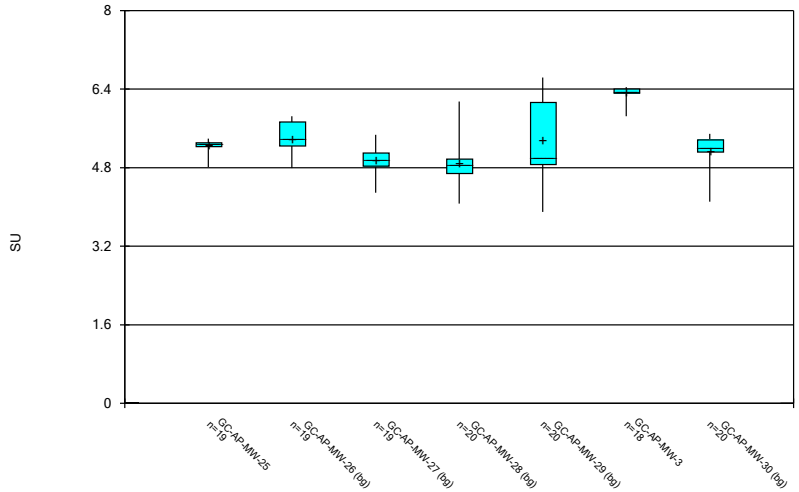

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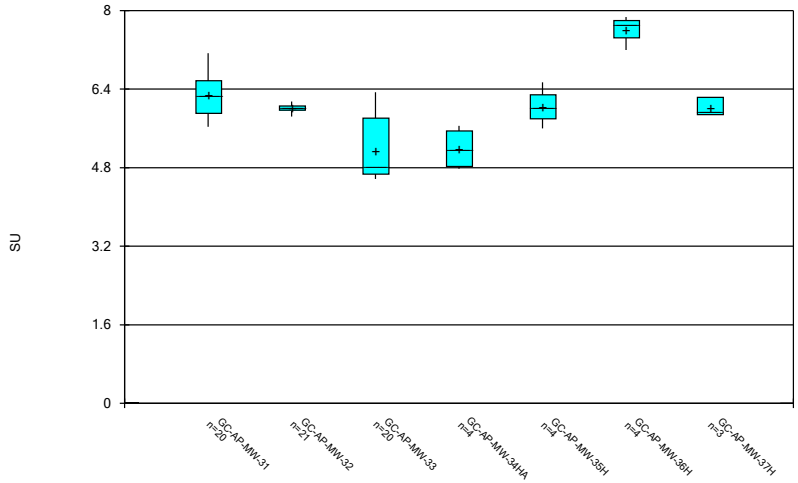

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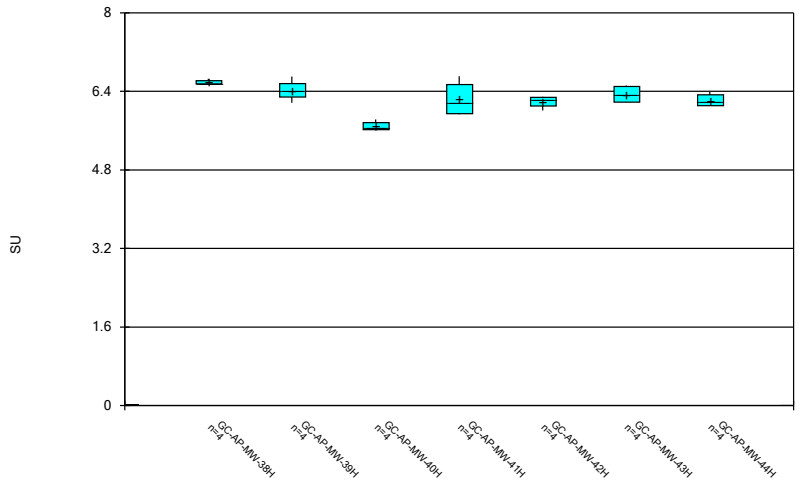

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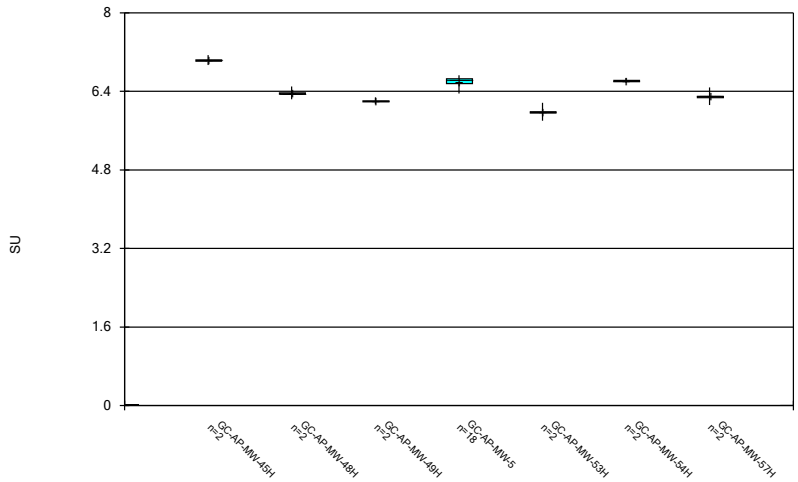

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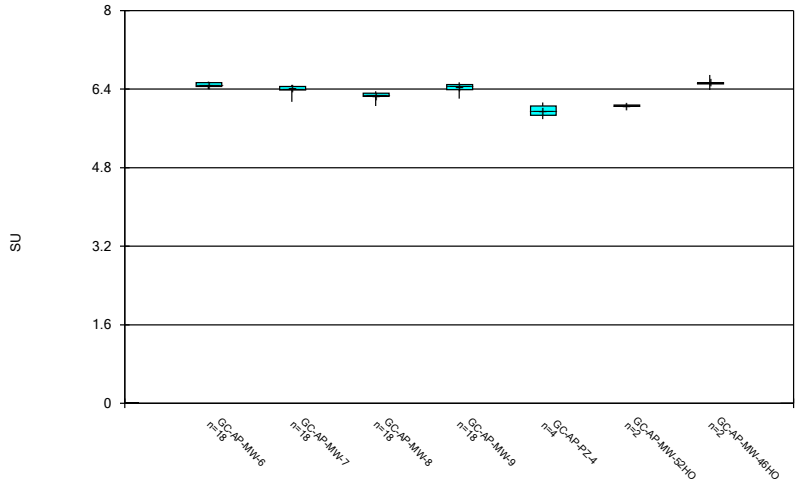

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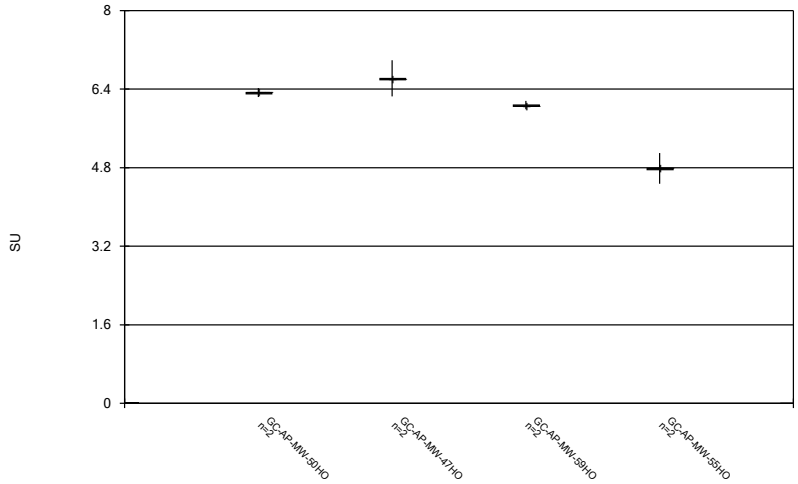

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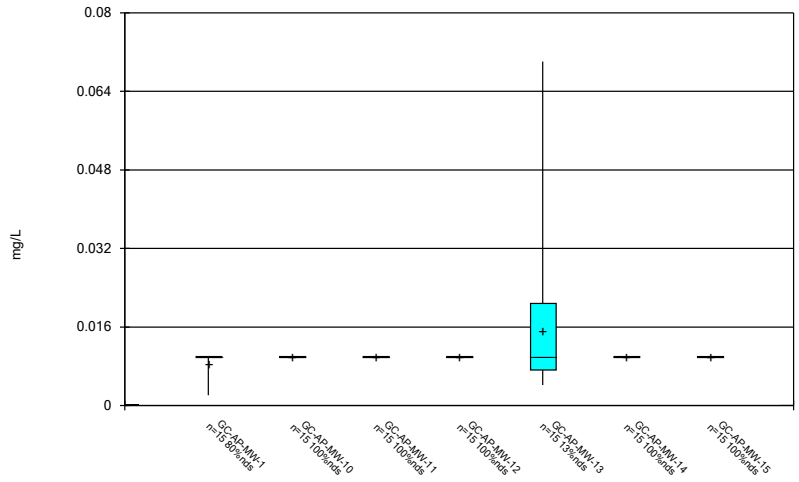

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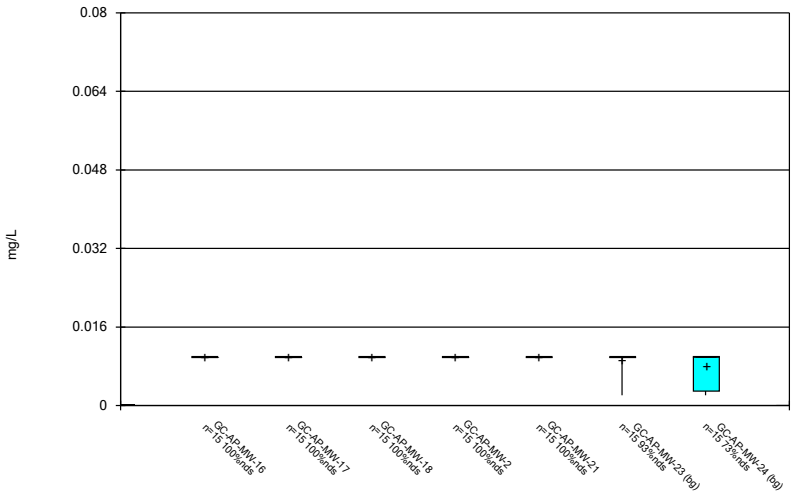

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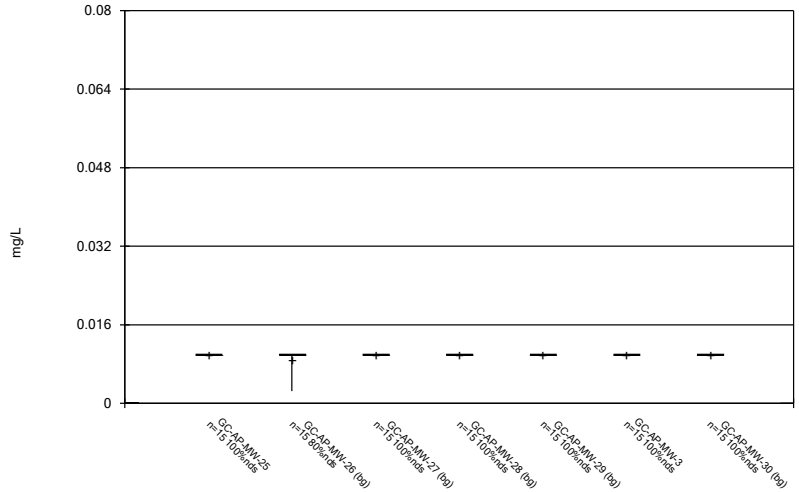

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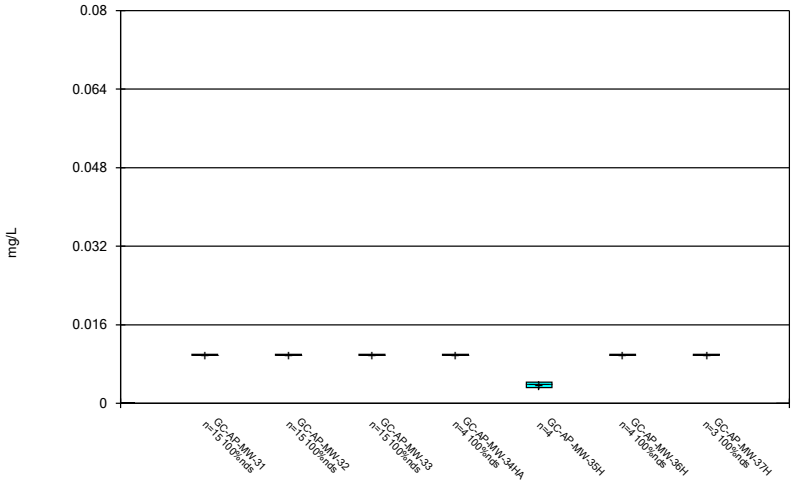

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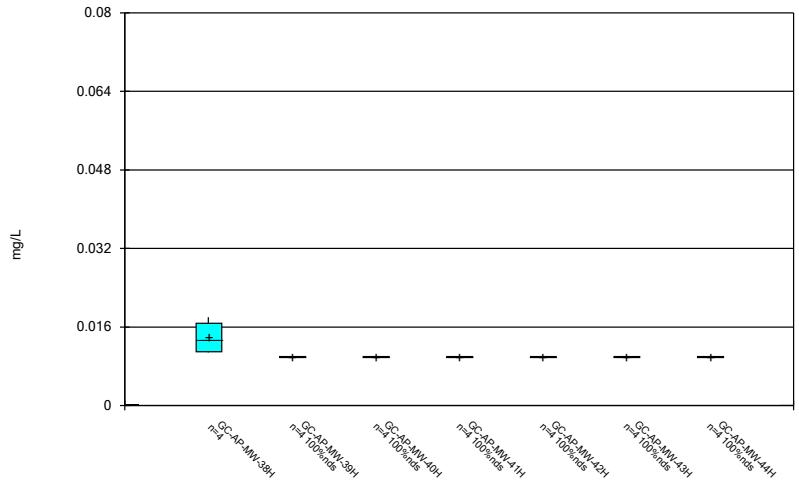

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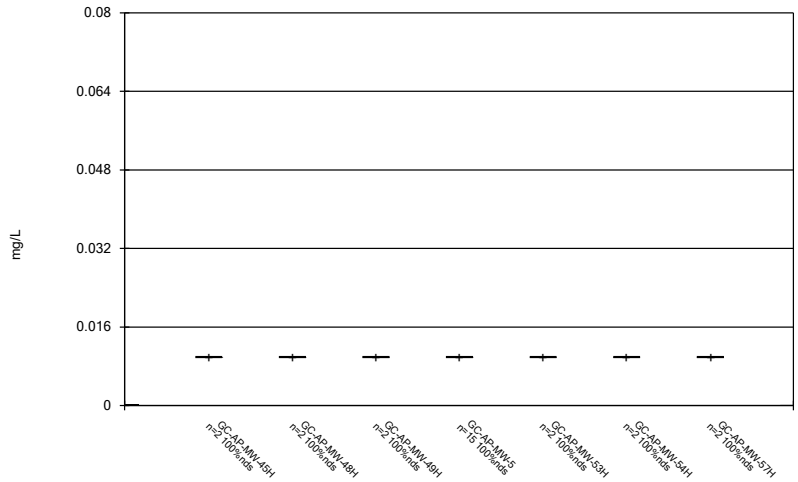

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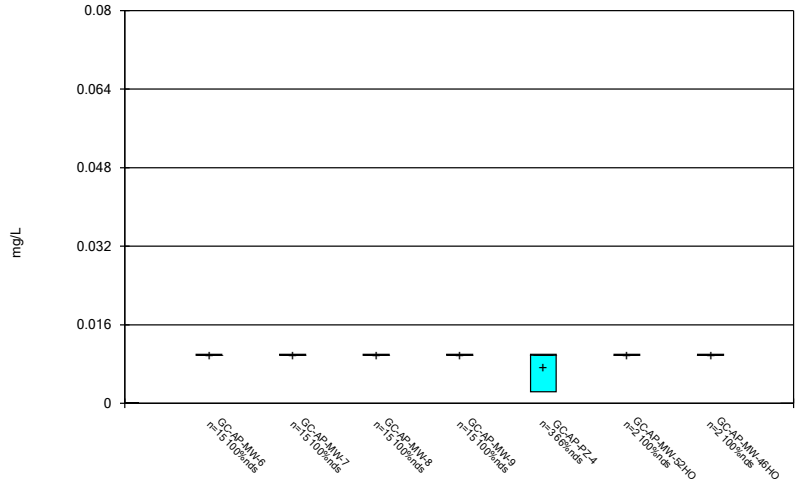

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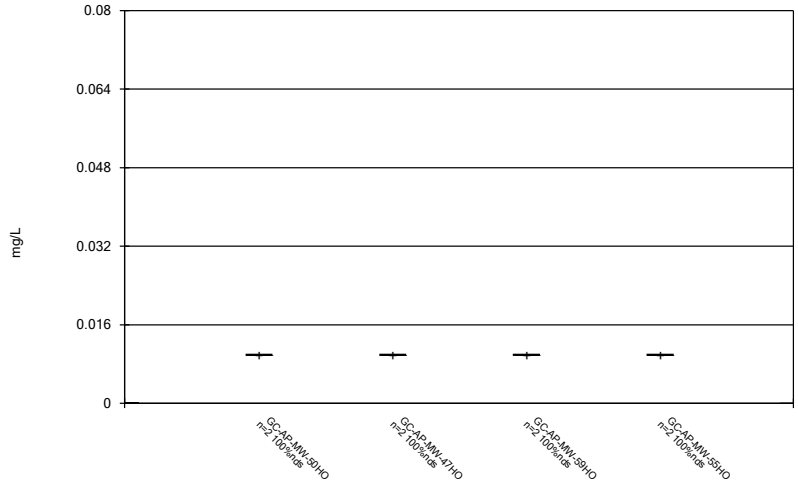

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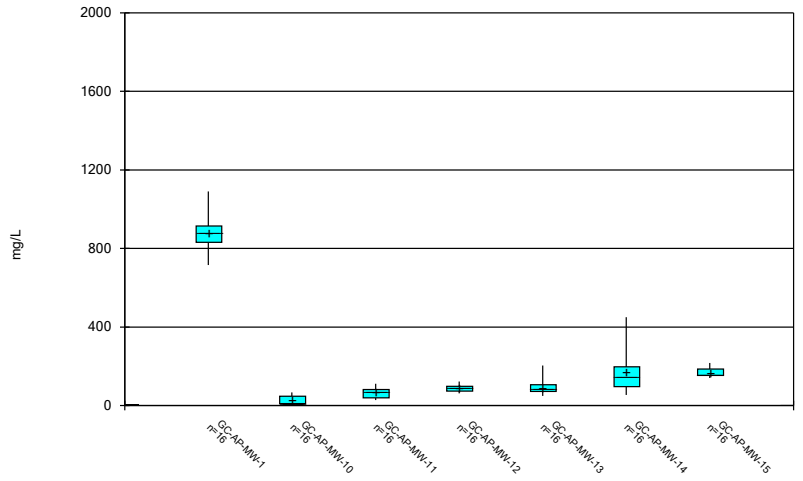

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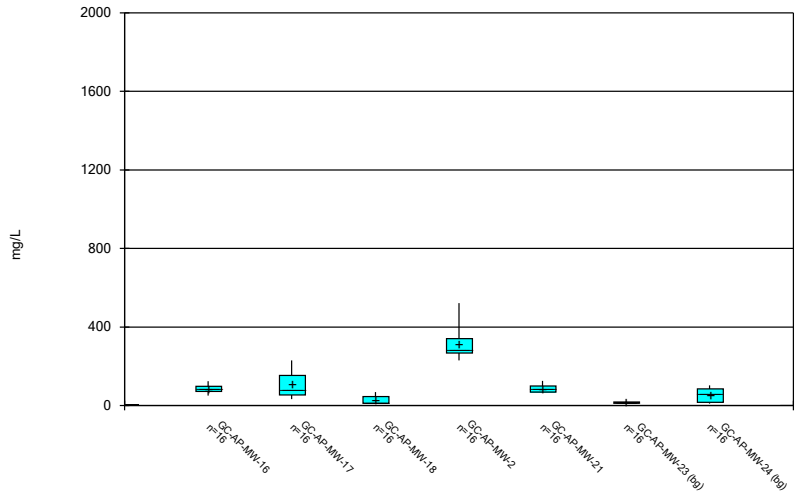

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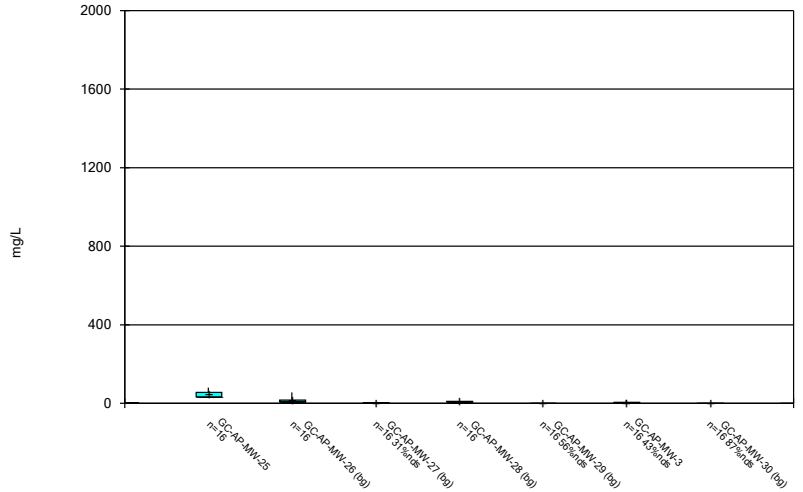

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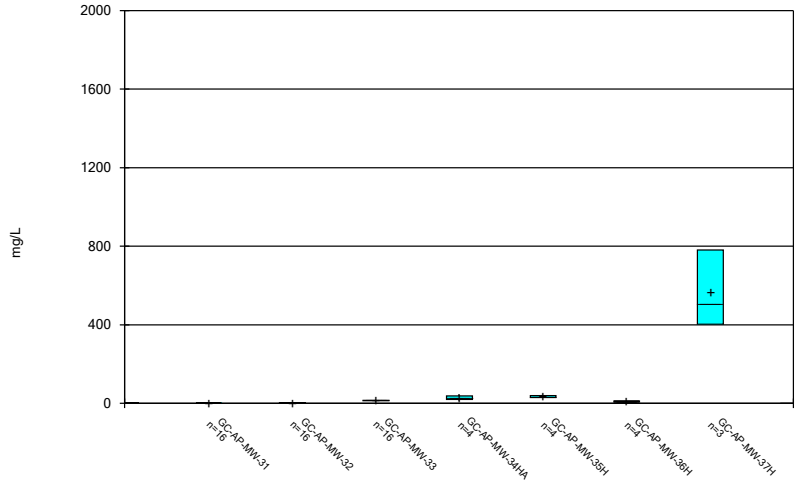

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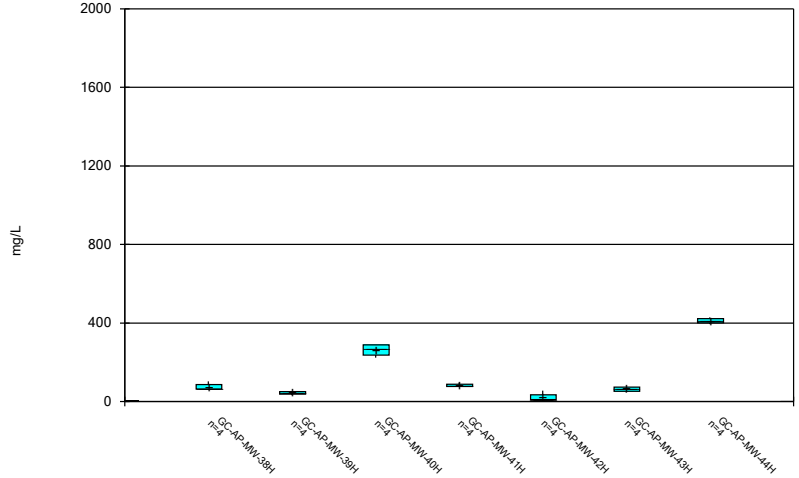

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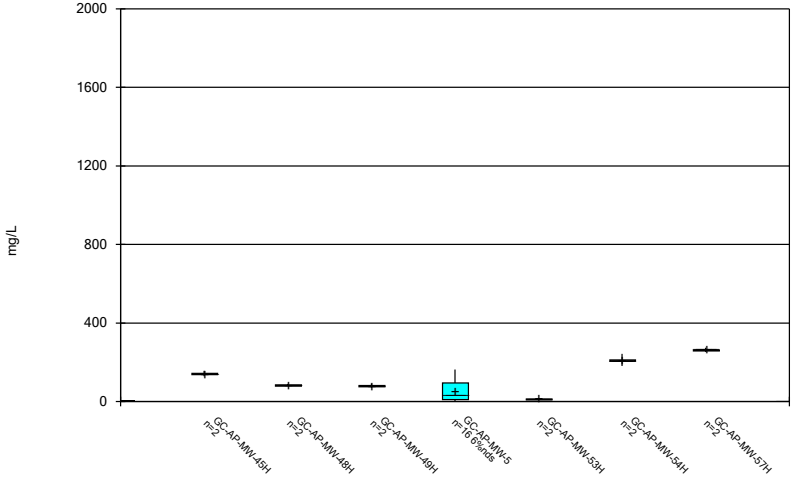

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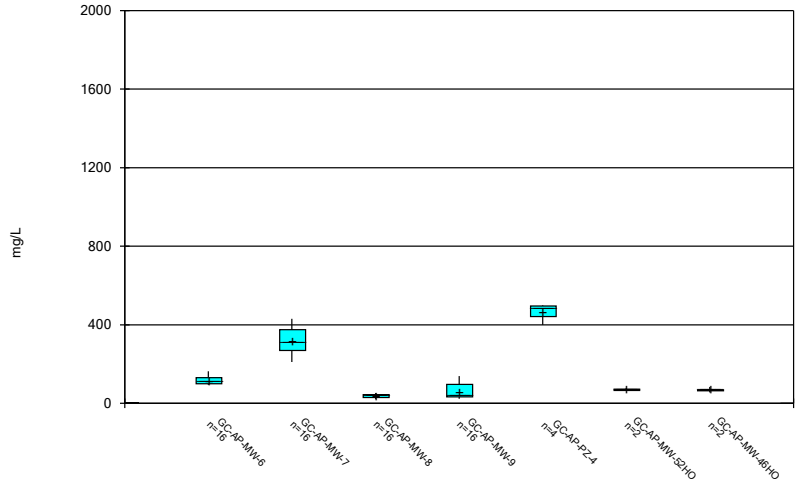

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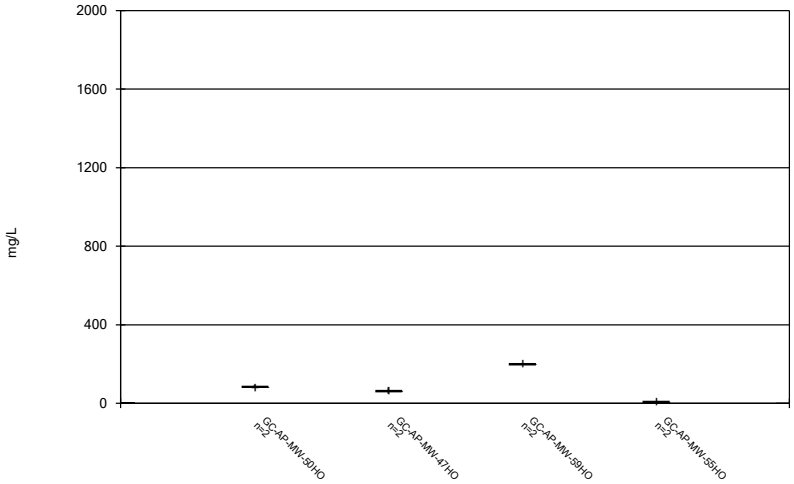

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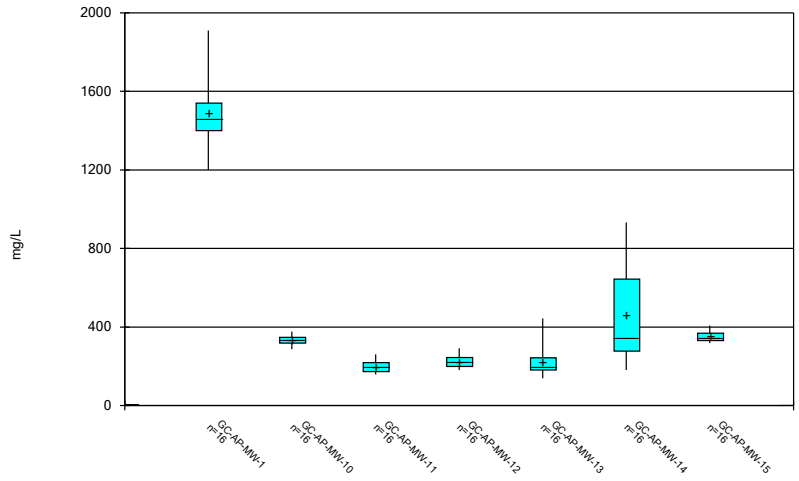

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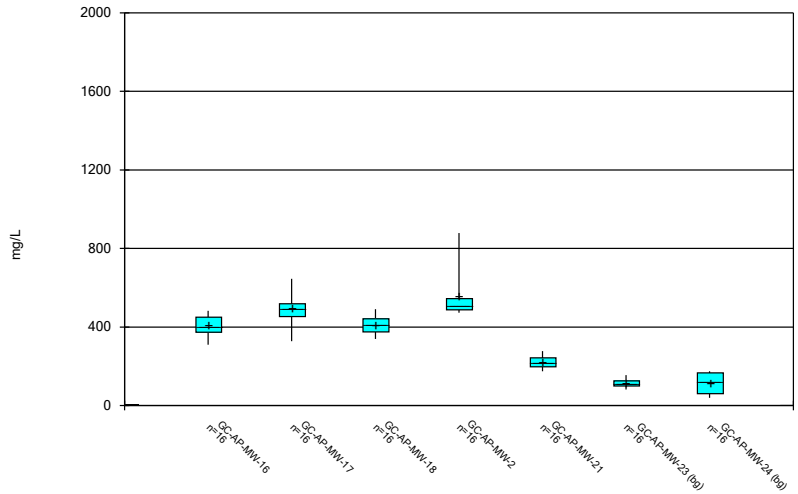

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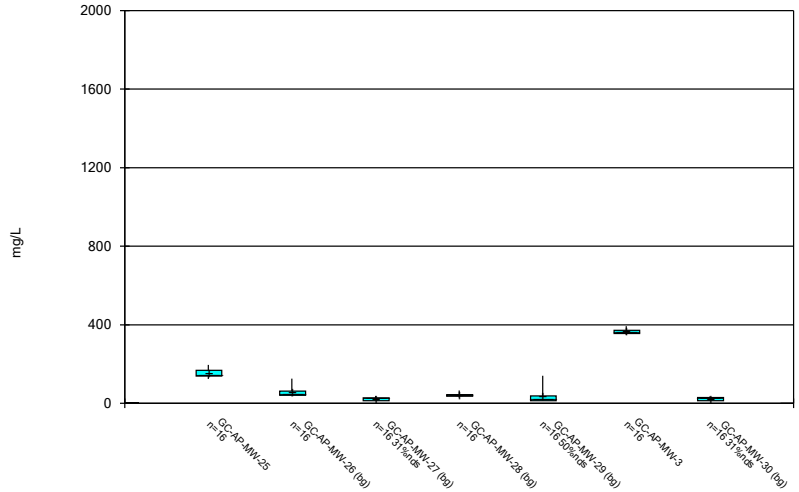

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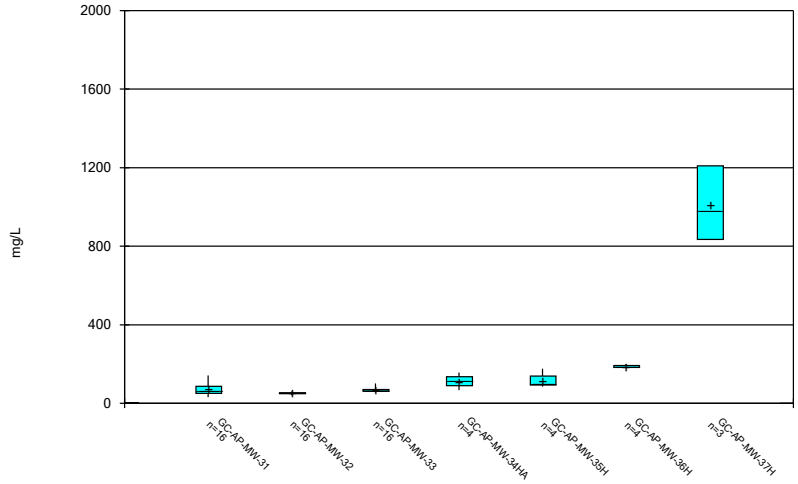

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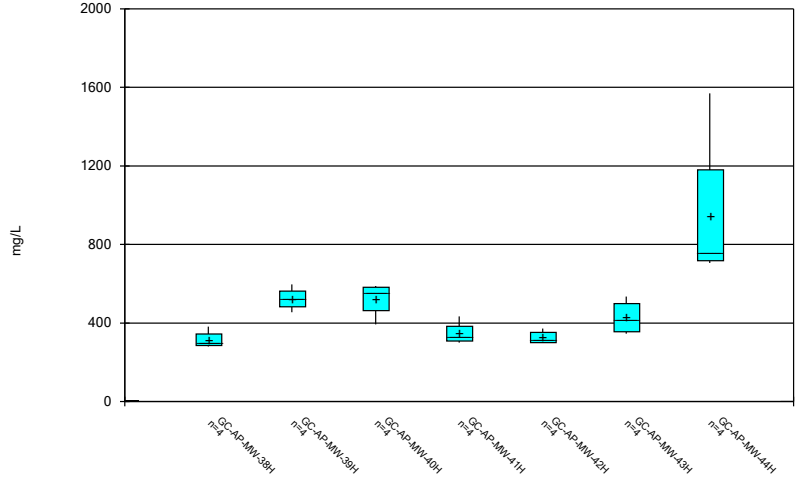

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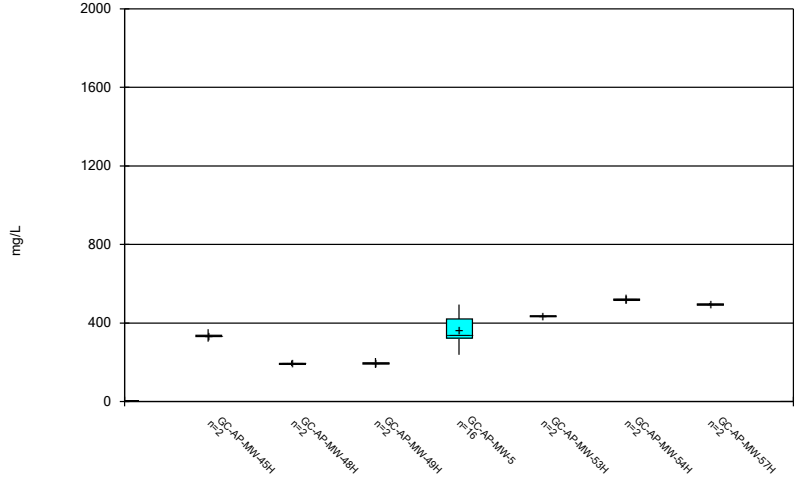

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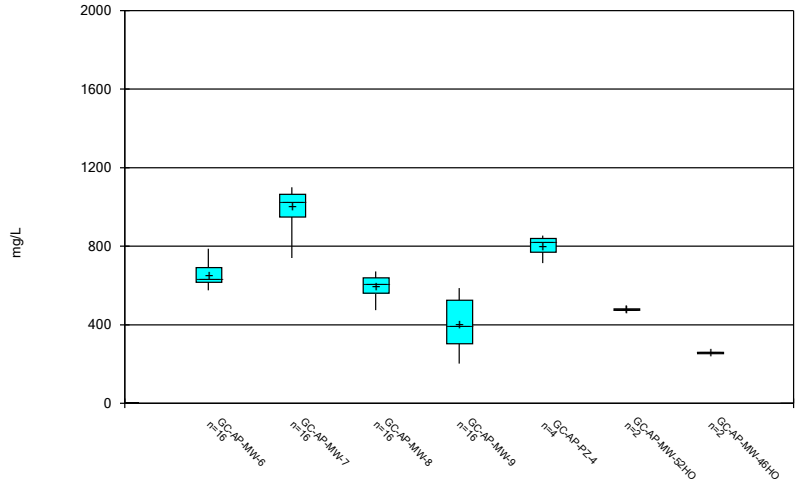

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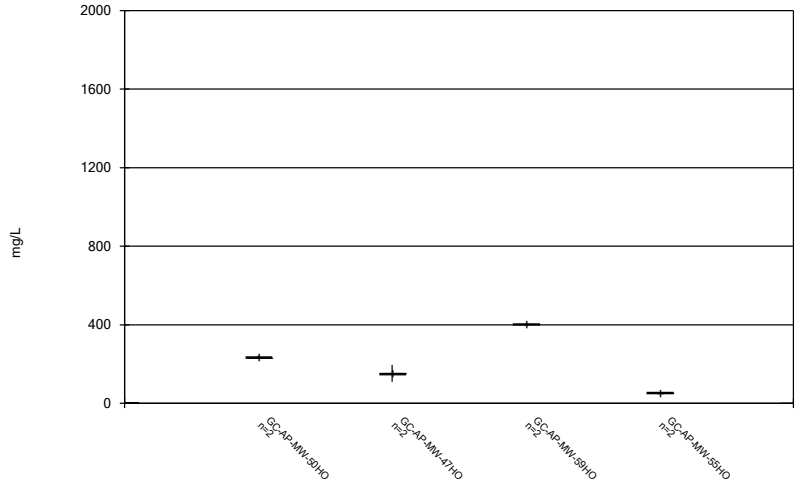

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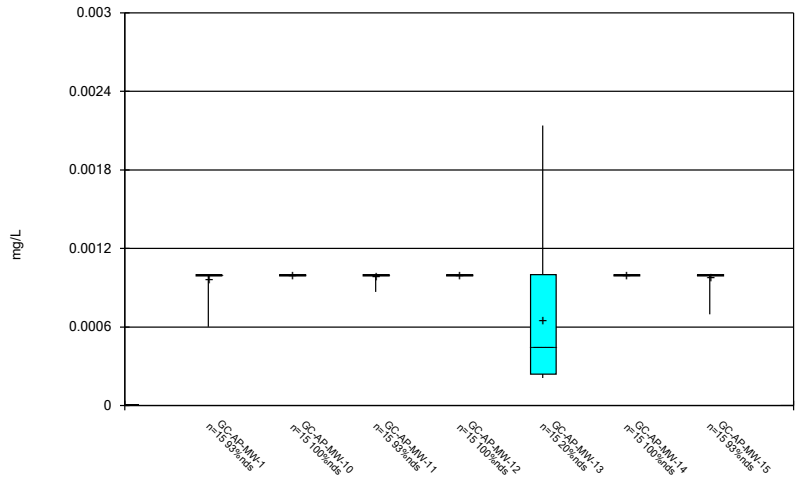

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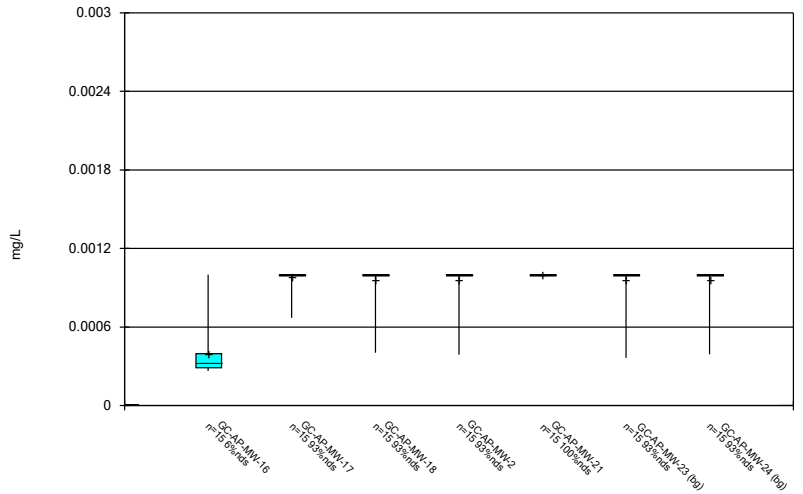

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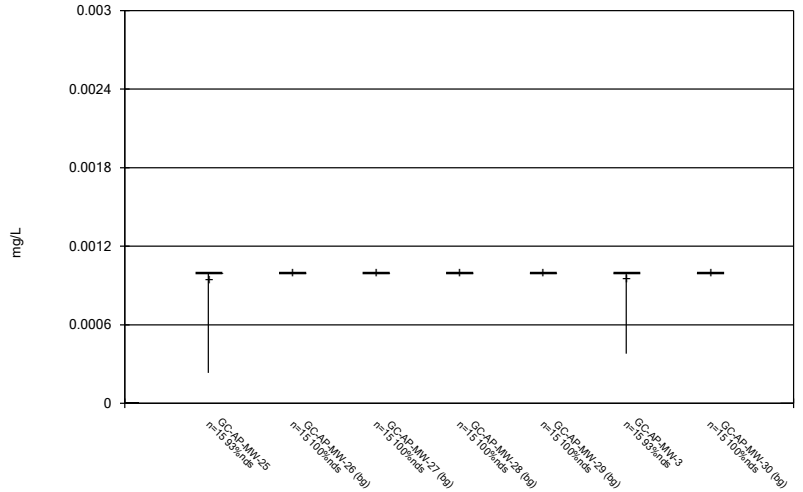

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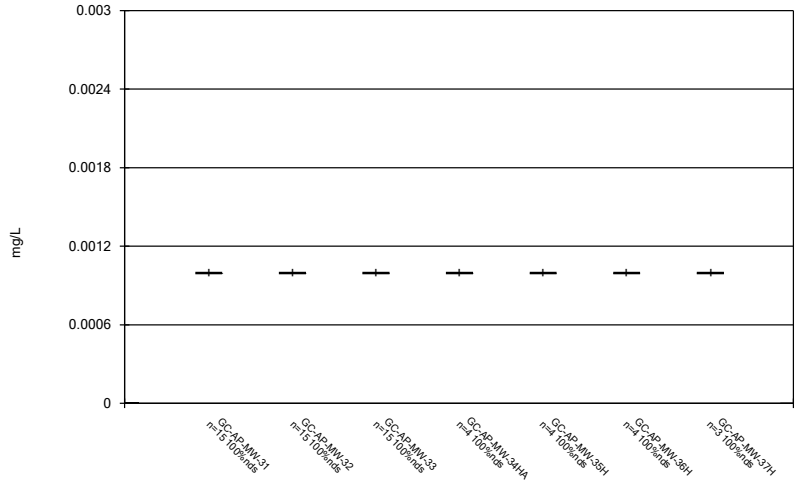

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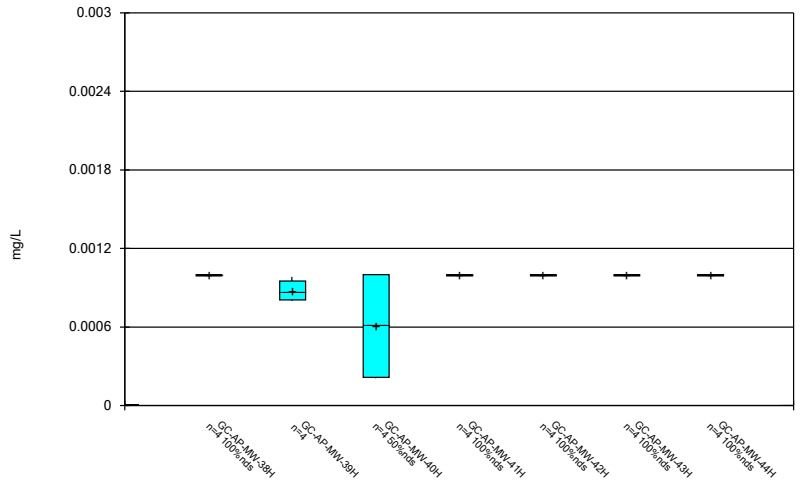

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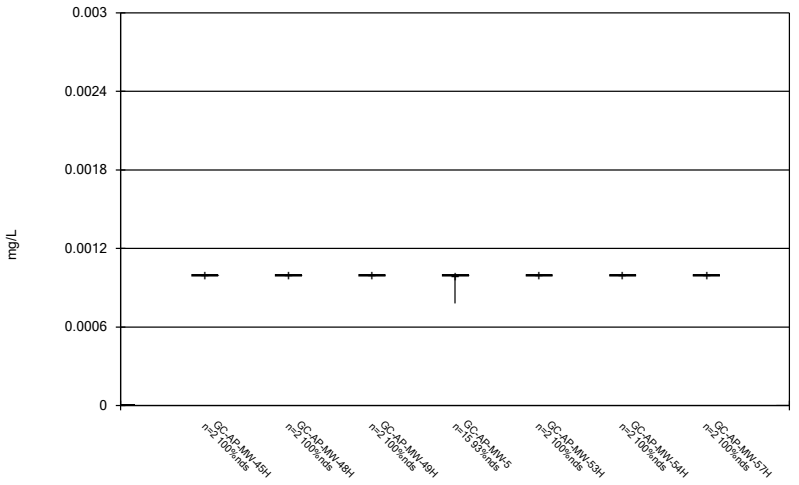
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

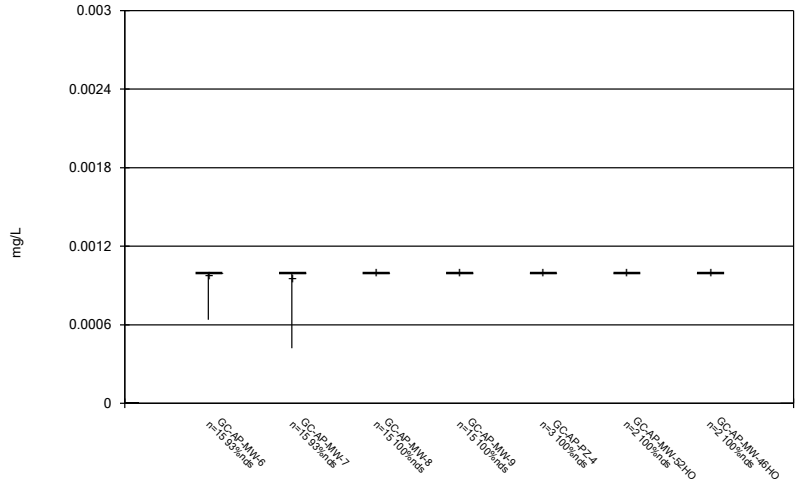


Constituent: Thallium Analysis Run 10/26/2020 4:58 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

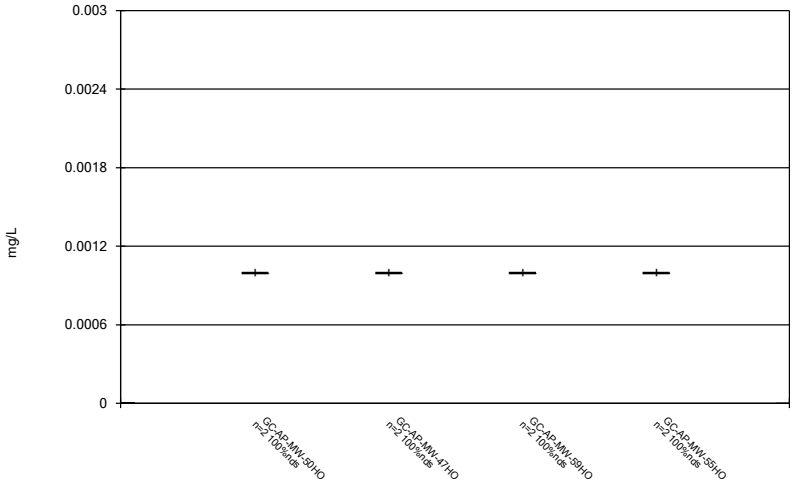


Constituent: Thallium Analysis Run 10/26/2020 4:58 PM

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/26/2020 4:58 PM

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 10/20/2020, 5:54 PM

	GC-AP-MW-26 Fluoride (mg/L)	GC-AP-MW-27 Fluoride (mg/L)	GC-AP-MW-28 Fluoride (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)		

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 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	0.1	n/a	8/17/2020	0.496	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1	n/a	8/18/2020	1.37	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1	n/a	8/18/2020	0.358	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1	n/a	8/18/2020	0.748	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1	n/a	8/18/2020	0.501	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1	n/a	8/11/2020	1.44	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1	n/a	8/12/2020	0.813	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1	n/a	8/11/2020	1.93	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1	n/a	8/11/2020	2.03	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1	n/a	8/12/2020	1.53	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1	n/a	8/17/2020	0.152	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1	n/a	8/18/2020	0.211	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1	n/a	8/11/2020	0.11	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1	n/a	8/12/2020	0.695	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1	n/a	8/19/2020	1.86	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1	n/a	8/19/2020	0.561	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1	n/a	8/19/2020	1.94	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1	n/a	8/18/2020	1.24	Yes	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	42.7	n/a	8/17/2020	81.5	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	42.7	n/a	8/18/2020	74.4	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	42.7	n/a	8/18/2020	42.9	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	42.7	n/a	8/18/2020	95.3	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	42.7	n/a	8/11/2020	118	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	42.7	n/a	8/12/2020	72.2	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	42.7	n/a	8/11/2020	101	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	42.7	n/a	8/11/2020	73	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	42.7	n/a	8/12/2020	85.9	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	42.7	n/a	8/17/2020	156	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	42.7	n/a	8/17/2020	78.9	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	42.7	n/a	8/12/2020	92.2	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	42.7	n/a	8/19/2020	162	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	42.7	n/a	8/19/2020	147	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	42.7	n/a	8/19/2020	98.6	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	42.7	n/a	8/18/2020	109	Yes	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.864	n/a	8/17/2020	23.2	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.864	n/a	8/18/2020	21.3	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.864	n/a	8/18/2020	16.2	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.864	n/a	8/18/2020	6.46	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.864	n/a	8/18/2020	8.24	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.864	n/a	8/11/2020	12.7	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.864	n/a	8/12/2020	11.4	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.864	n/a	8/11/2020	12.1	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.864	n/a	8/11/2020	15.4	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.864	n/a	8/12/2020	24.5	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.864	n/a	8/17/2020	13.1	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.864	n/a	8/11/2020	16.7	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.864	n/a	8/17/2020	24.6	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.864	n/a	8/12/2020	13	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.864	n/a	8/19/2020	39.6	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.864	n/a	8/19/2020	123	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.864	n/a	8/19/2020	70.5	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.864	n/a	8/18/2020	31.4	Yes	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	8/18/2020	0.203	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	8/18/2020	0.165	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	8/18/2020	0.223	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	8/11/2020	0.278	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 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-16	0.159	n/a	8/11/2020	0.294	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	8/11/2020	0.515	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	8/12/2020	0.198	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	8/18/2020	0.18	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	8/12/2020	0.221	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	8/19/2020	0.223	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	8/18/2020	0.177	Yes	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.9	8/18/2020	6.98	Yes	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	8/17/2020	919	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	8/18/2020	203	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	8/11/2020	242	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	8/12/2020	160	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	8/17/2020	497	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	8/12/2020	132	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	8/19/2020	163	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	8/19/2020	296	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	8/18/2020	115	Yes	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	174	n/a	8/17/2020	1590	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	174	n/a	8/18/2020	376	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	174	n/a	8/18/2020	260	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	174	n/a	8/18/2020	250	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	174	n/a	8/18/2020	444	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	174	n/a	8/11/2020	688	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	174	n/a	8/12/2020	401	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	174	n/a	8/11/2020	482	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	174	n/a	8/11/2020	522	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	174	n/a	8/12/2020	390	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	174	n/a	8/17/2020	818	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	174	n/a	8/18/2020	179	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	174	n/a	8/11/2020	193	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	174	n/a	8/17/2020	361	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	174	n/a	8/12/2020	433	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	174	n/a	8/19/2020	788	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	174	n/a	8/19/2020	1050	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	174	n/a	8/19/2020	658	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	174	n/a	8/18/2020	542	Yes	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 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**	**0.1**	**n/a**	**8/17/2020**	**0.496**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-10**	**0.1**	**n/a**	**8/18/2020**	**1.37**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-11**	**0.1**	**n/a**	**8/18/2020**	**0.358**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-12**	**0.1**	**n/a**	**8/18/2020**	**0.748**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-13**	**0.1**	**n/a**	**8/18/2020**	**0.501**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-14**	**0.1**	**n/a**	**8/11/2020**	**1.44**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-15**	**0.1**	**n/a**	**8/12/2020**	**0.813**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-16**	**0.1**	**n/a**	**8/11/2020**	**1.93**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-17**	**0.1**	**n/a**	**8/11/2020**	**2.03**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-18**	**0.1**	**n/a**	**8/12/2020**	**1.53**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-2**	**0.1**	**n/a**	**8/17/2020**	**0.152**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-21**	**0.1**	**n/a**	**8/18/2020**	**0.211**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-25**	**0.1**	**n/a**	**8/11/2020**	**0.11**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GC-AP-MW-3	0.1	n/a	8/17/2020	0.0636J	No	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1	n/a	8/11/2020	0.1ND	No	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1	n/a	8/12/2020	0.1ND	No	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1	n/a	8/12/2020	0.1ND	No	105	n/a	n/a	92.38	n/a	n/a	0.0001762	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GC-AP-MW-5**	**0.1**	**n/a**	**8/12/2020**	**0.695**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-6**	**0.1**	**n/a**	**8/19/2020**	**1.86**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-7**	**0.1**	**n/a**	**8/19/2020**	**0.561**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-8**	**0.1**	**n/a**	**8/19/2020**	**1.94**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GC-AP-MW-9**	**0.1**	**n/a**	**8/18/2020**	**1.24**	**Yes**	**105**	**n/a**	**n/a**	**92.38**	**n/a**	**n/a**	**0.0001762**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-1**	**42.7**	**n/a**	**8/17/2020**	**81.5**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-10**	**42.7**	**n/a**	**8/18/2020**	**74.4**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GC-AP-MW-11	42.7	n/a	8/18/2020	37.6	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GC-AP-MW-12**	**42.7**	**n/a**	**8/18/2020**	**42.9**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-13**	**42.7**	**n/a**	**8/18/2020**	**95.3**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-14**	**42.7**	**n/a**	**8/11/2020**	**118**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-15**	**42.7**	**n/a**	**8/12/2020**	**72.2**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-16**	**42.7**	**n/a**	**8/11/2020**	**101**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-17**	**42.7**	**n/a**	**8/11/2020**	**73**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-18**	**42.7**	**n/a**	**8/12/2020**	**85.9**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-2**	**42.7**	**n/a**	**8/17/2020**	**156**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GC-AP-MW-21	42.7	n/a	8/18/2020	25.5	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	42.7	n/a	8/11/2020	10.7	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GC-AP-MW-3**	**42.7**	**n/a**	**8/17/2020**	**78.9**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GC-AP-MW-31	42.7	n/a	8/11/2020	7.46	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	42.7	n/a	8/12/2020	9.48	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	42.7	n/a	8/12/2020	1.78	No	112	n/a	n/a	0	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GC-AP-MW-5**	**42.7**	**n/a**	**8/12/2020**	**92.2**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-6**	**42.7**	**n/a**	**8/19/2020**	**162**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-7**	**42.7**	**n/a**	**8/19/2020**	**147**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-8**	**42.7**	**n/a**	**8/19/2020**	**98.6**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GC-AP-MW-9**	**42.7**	**n/a**	**8/18/2020**	**109**	**Yes**	**112**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GC-AP-MW-1**	**5.864**	**n/a**	**8/17/2020**	**23.2**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-10**	**5.864**	**n/a**	**8/18/2020**	**21.3**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-11**	**5.864**	**n/a**	**8/18/2020**	**16.2**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-12**	**5.864**	**n/a**	**8/18/2020**	**6.46**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-13**	**5.864**	**n/a**	**8/18/2020**	**8.24**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-14**	**5.864**	**n/a**	**8/11/2020**	**12.7**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-15**	**5.864**	**n/a**	**8/12/2020**	**11.4**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-16**	**5.864**	**n/a**	**8/11/2020**	**12.1**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-17**	**5.864**	**n/a**	**8/11/2020**	**15.4**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-18**	**5.864**	**n/a**	**8/12/2020**	**24.5**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-2**	**5.864**	**n/a**	**8/17/2020**	**13.1**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	GC-AP-MW-21	5.864	n/a	8/18/2020	5.54	No	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	**GC-AP-MW-25**	**5.864**	**n/a**	**8/11/2020**	**16.7**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-3**	**5.864**	**n/a**	**8/17/2020**	**24.6**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	GC-AP-MW-31	5.864	n/a	8/11/2020	5.45	No	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-32	5.864	n/a	8/12/2020	4.17	No	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-33	5.864	n/a	8/12/2020	4.46	No	112	0.755	0.4741	4.464	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	**GC-AP-MW-5**	**5.864**	**n/a**	**8/12/2020**	**13**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-6**	**5.864**	**n/a**	**8/19/2020**	**39.6**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-7**	**5.864**	**n/a**	**8/19/2020**	**123**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-8**	**5.864**	**n/a**	**8/19/2020**	**70.5**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Chloride (mg/L)	**GC-AP-MW-9**	**5.864**	**n/a**	**8/18/2020**	**31.4**	**Yes**	**112**	**0.755**	**0.4741**	**4.464**	**None**	**ln(x)**	**0.000342**	**Param Inter 1 of 2**
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	8/17/2020	0.115	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-10**	**0.159**	**n/a**	**8/18/2020**	**0.203**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-11**	**0.159**	**n/a**	**8/18/2020**	**0.165**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-12**	**0.159**	**n/a**	**8/18/2020**	**0.223**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	8/18/2020	0.108	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-14**	**0.159**	**n/a**	**8/11/2020**	**0.278**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	8/12/2020	0.147	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-16**	**0.159**	**n/a**	**8/11/2020**	**0.294**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-17**	**0.159**	**n/a**	**8/11/2020**	**0.515**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-18**	**0.159**	**n/a**	**8/12/2020**	**0.198**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	8/17/2020	0.0753J	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-21**	**0.159**	**n/a**	**8/18/2020**	**0.18**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	8/11/2020	0.1ND	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	8/17/2020	0.148	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	8/11/2020	0.1ND	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	8/12/2020	0.1ND	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	8/12/2020	0.1ND	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-5**	**0.159**	**n/a**	**8/12/2020**	**0.221**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	**GC-AP-MW-6**	**0.159**	**n/a**	**8/19/2020**	**0.223**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	8/19/2020	0.103	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	8/19/2020	0.116	No	106	n/a	n/a	65.09	n/a	n/a	0.0001734	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	**GC-AP-MW-9**	**0.159**	**n/a**	**8/18/2020**	**0.177**	**Yes**	**106**	**n/a**	**n/a**	**65.09**	**n/a**	**n/a**	**0.0001734**	**NP Inter (NDs) 1 of 2**
pH (SU)	GC-AP-MW-1	6.8	3.9	8/17/2020	5.54	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-10	6.8	3.9	8/18/2020	6.33	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-11	6.8	3.9	8/18/2020	6	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	**GC-AP-MW-12**	**6.8**	**3.9**	**8/18/2020**	**6.98**	**Yes**	**136**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0002116**	**NP Inter (normality) 1 of 2**
pH (SU)	GC-AP-MW-13	6.8	3.9	8/18/2020	6.76	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.8	3.9	8/11/2020	6.02	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-15	6.8	3.9	8/12/2020	6.1	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.8	3.9	8/11/2020	6.7	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.8	3.9	8/11/2020	6.71	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-18	6.8	3.9	8/12/2020	6.62	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.8	3.9	8/17/2020	5.91	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.8	3.9	8/18/2020	6.31	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-25	6.8	3.9	8/11/2020	4.81	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.8	3.9	8/17/2020	5.85	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.8	3.9	8/11/2020	5.63	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.8	3.9	8/12/2020	5.84	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.8	3.9	8/12/2020	4.65	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.8	3.9	8/12/2020	6.36	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-6	6.8	3.9	8/19/2020	6.49	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.8	3.9	8/19/2020	6.14	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-8	6.8	3.9	8/19/2020	6.06	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.8	3.9	8/18/2020	6.21	No	136	n/a	n/a	0	n/a	n/a	0.0002116	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-1**	**103**	**n/a**	**8/17/2020**	**919**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	8/18/2020	58.6	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:51 PM

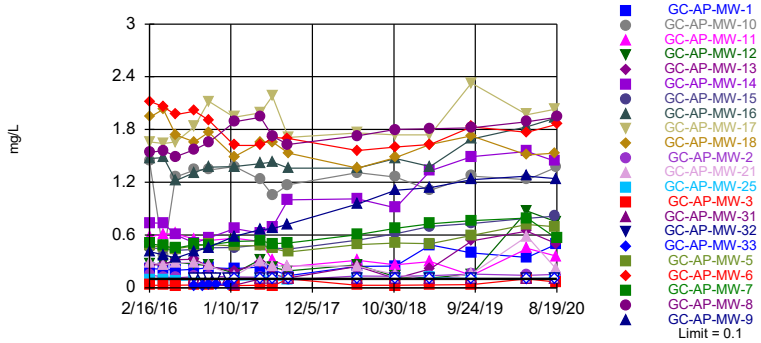
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	8/18/2020	81.1	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	8/18/2020	89	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-13**	**103**	**n/a**	**8/18/2020**	**203**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GC-AP-MW-14**	**103**	**n/a**	**8/11/2020**	**242**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GC-AP-MW-15**	**103**	**n/a**	**8/12/2020**	**160**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	8/11/2020	55	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	8/11/2020	46.7	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	8/12/2020	13.8	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-2**	**103**	**n/a**	**8/17/2020**	**497**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	8/18/2020	63.4	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	8/11/2020	79.5	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	8/17/2020	17.3	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	8/11/2020	4.33	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	8/12/2020	2.54	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	8/12/2020	13.6	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-5**	**103**	**n/a**	**8/12/2020**	**132**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GC-AP-MW-6**	**103**	**n/a**	**8/19/2020**	**163**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GC-AP-MW-7**	**103**	**n/a**	**8/19/2020**	**296**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	8/19/2020	44.5	No	112	n/a	n/a	25	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GC-AP-MW-9**	**103**	**n/a**	**8/18/2020**	**115**	**Yes**	**112**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-1**	**174**	**n/a**	**8/17/2020**	**1590**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-10**	**174**	**n/a**	**8/18/2020**	**376**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-11**	**174**	**n/a**	**8/18/2020**	**260**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-12**	**174**	**n/a**	**8/18/2020**	**250**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-13**	**174**	**n/a**	**8/18/2020**	**444**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-14**	**174**	**n/a**	**8/11/2020**	**688**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-15**	**174**	**n/a**	**8/12/2020**	**401**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-16**	**174**	**n/a**	**8/11/2020**	**482**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-17**	**174**	**n/a**	**8/11/2020**	**522**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-18**	**174**	**n/a**	**8/12/2020**	**390**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-2**	**174**	**n/a**	**8/17/2020**	**818**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-21**	**174**	**n/a**	**8/18/2020**	**179**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-25**	**174**	**n/a**	**8/11/2020**	**193**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-3**	**174**	**n/a**	**8/17/2020**	**361**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	GC-AP-MW-31	174	n/a	8/11/2020	52	No	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	174	n/a	8/12/2020	49.3	No	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	174	n/a	8/12/2020	62	No	112	n/a	n/a	16.07	n/a	n/a	0.0001563	NP Inter (normality) 1 of 2
TDS (mg/L)	**GC-AP-MW-5**	**174**	**n/a**	**8/12/2020**	**433**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-6**	**174**	**n/a**	**8/19/2020**	**788**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-7**	**174**	**n/a**	**8/19/2020**	**1050**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-8**	**174**	**n/a**	**8/19/2020**	**658**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GC-AP-MW-9**	**174**	**n/a**	**8/18/2020**	**542**	**Yes**	**112**	**n/a**	**n/a**	**16.07**	**n/a**	**n/a**	**0.0001563**	**NP Inter (normality) 1 of 2**

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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 censored data exceeded 50%. Limit is highest of 105 background values. 92.38% NDs. Annual per-constituent alpha = 0.007723. Individual comparison alpha = 0.0001762 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 10/26/2020 2:50 PM View: Appendix III

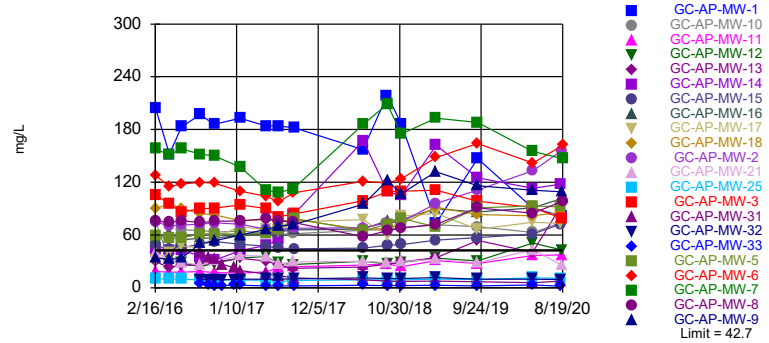
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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 112 background values. Annual per-constituent alpha = 0.006855. Individual comparison alpha = 0.0001563 (1 of 2). Comparing 22 points to limit.

Constituent: Calcium Analysis Run 10/26/2020 2:50 PM View: Appendix III

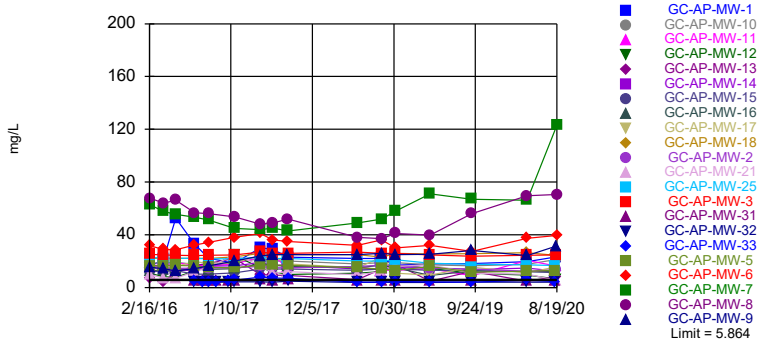
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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 Parametric



Background Data Summary (based on natural log transformation): Mean=0.755, Std. Dev.=0.4741, n=112, 4.464% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 11.04, critical = 14.07. Kappa = 2.138 (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 10/26/2020 2:50 PM View: Appendix III

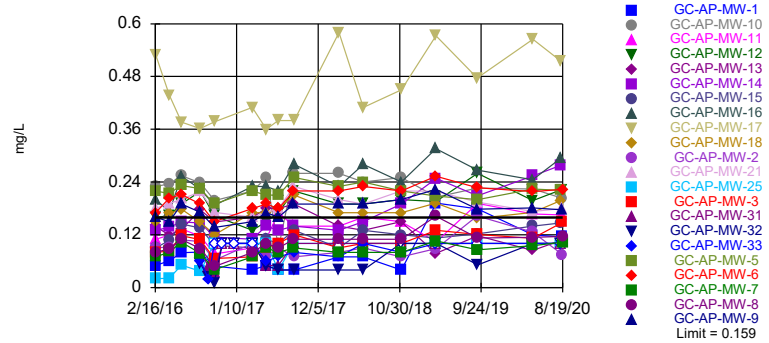
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 106 background values. 65.09% NDs. Annual per-constituent alpha = 0.007599. Individual comparison alpha = 0.0001734 (1 of 2). Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 10/26/2020 2:50 PM View: Appendix III

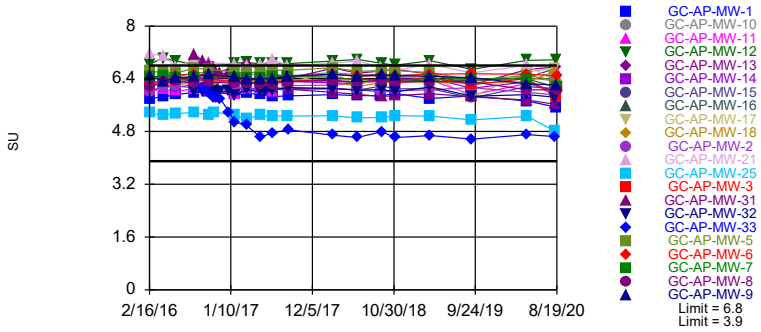
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Exceeds Limits: GC-AP-MW-12

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 136 background values. Annual per-constituent alpha = 0.009291. Individual comparison alpha = 0.0002116 (1 of 2). Comparing 22 points to limit.

Constituent: pH Analysis Run 10/26/2020 2:50 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

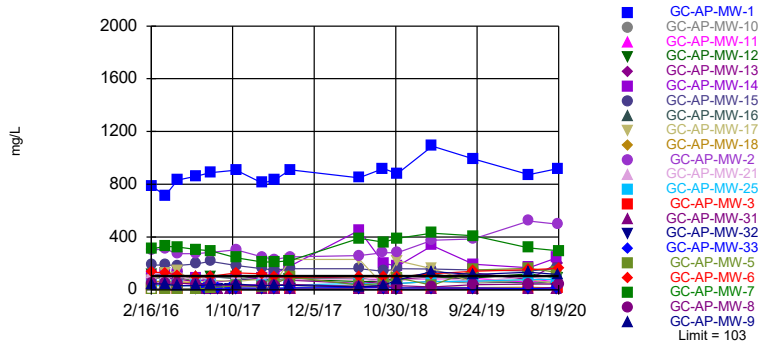
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6,..

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 112 background values. 25% NDs. Annual per-constituent alpha = 0.006855. Individual comparison alpha = 0.0001563 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 10/26/2020 2:50 PM View: Appendix III

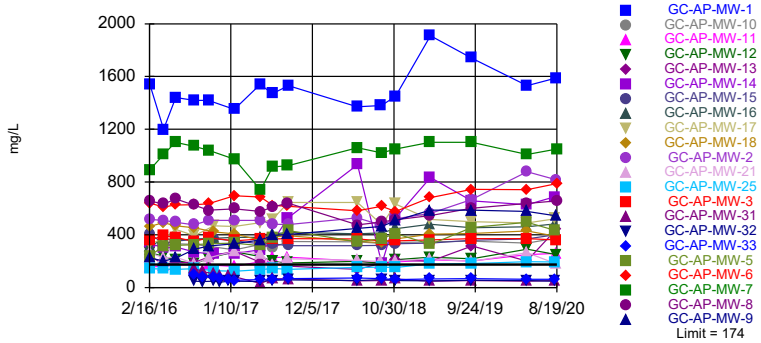
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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 112 background values. 16.07% NDs. Annual per-constituent alpha = 0.006855. Individual comparison alpha = 0.0001563 (1 of 2). Comparing 22 points to limit.

Constituent: TDS Analysis Run 10/26/2020 2:50 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-10	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-8	GC-AP-MW-12	GC-AP-MW-11	GC-AP-MW-3
2/16/2016	0.412	1.44	0.739	0.286	0.26	1.54	0.273		
2/17/2016								0.581	0.0288 (J)
4/12/2016			0.733		0.26				0.0293 (J)
4/13/2016	0.376	0.373		0.26		1.56	0.276	0.61	
5/31/2016		1.26	0.603		0.318		0.291	0.615	
6/1/2016	0.338			0.283		1.49			0.0279 (J)
8/15/2016									0.0332 (J)
8/16/2016		1.34		0.292	0.322		0.268	0.554	
8/17/2016	0.412		0.509			1.57			
9/19/2016									
9/20/2016									
10/11/2016									0.0328 (J)
10/12/2016	0.46	1.34	0.569	0.254	0.244	1.65	0.252	0.537	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									0.0262 (J)
1/25/2017	0.586	1.38	0.671	0.133	0.188	1.89	0.167	0.562	
1/26/2017									
5/9/2017			0.622	0.304	0.281		0.32	0.528	0.0298 (J)
5/10/2017	0.661	1.23				1.94			
6/27/2017									
6/28/2017	0.673	1.05	0.695	0.243	0.153	1.72	0.231	0.313	0.0226 (J)
8/29/2017	0.723	1.17	1	0.249	0.112	1.63	0.191	0.241	
8/30/2017									<0.1
6/4/2018									0.0296 (J)
6/5/2018	0.954	1.31				1.73		0.311	
6/6/2018			1.01	0.245	0.244		0.26		
11/5/2018				0.151	0.104		0.127	0.262	
11/6/2018									0.0268 (J)
11/7/2018	1.11	1.26	0.908			1.8			
3/26/2019	1.14			0.0834 (J)	0.213	1.81	0.111		
3/27/2019		1.11	1.33					0.298	0.0316 (J)
9/9/2019									0.035 (J)
9/10/2019	1.23	1.27	1.49	0.16		1.82	0.153	0.141	
9/11/2019					0.535				
4/20/2020					0.642				<0.1
4/21/2020	1.27		1.55	0.586		1.89	0.872		
4/22/2020		1.23						0.447	
8/11/2020			1.44						
8/12/2020									
8/17/2020									0.0636 (J)
8/18/2020	1.24	1.37		0.211	0.501		0.748	0.358	
8/19/2020						1.94			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-23 (bg)	GC-AP-MW-18	GC-AP-MW-6	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-5	GC-AP-MW-2	GC-AP-MW-1
2/16/2016									
2/17/2016	0.503	0.0271 (J)	1.94	2.12	1.66	1.47	0.478	0.146	0.219
4/12/2016		<0.1	2.03	2.06			0.467		
4/13/2016	0.478				1.64	1.48		0.125	0.211
5/31/2016	0.452			1.97			0.443		
6/1/2016		<0.1	1.74		1.66	1.22		0.114	0.2
8/15/2016			1.66		1.83	1.31		0.128	0.211
8/16/2016		<0.1							
8/17/2016	0.492			2.01			0.477		
9/19/2016									
9/20/2016									
10/11/2016		0.024 (J)		1.91			0.489	0.129	0.23
10/12/2016	0.487		1.77		2.12	1.37			
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017		0.0333 (J)	1.49	1.62	1.94	1.38	0.475	0.124	0.218
1/25/2017	0.529								
1/26/2017									
5/9/2017		<0.1					0.479	0.121	0.235
5/10/2017	0.533		1.65	1.62	1.99	1.41			
6/27/2017		<0.1	1.66		2.18	1.43			0.206
6/28/2017	0.501			1.71			0.448	0.111	
8/29/2017	0.51	<0.1		1.7					
8/30/2017			1.53		1.71	1.36	0.407	0.0915 (J)	0.138
6/4/2018								0.134	0.242
6/5/2018	0.605	<0.1	1.36	1.56	1.76	1.36	0.489		
6/6/2018									
11/5/2018									
11/6/2018			1.48		1.74	1.47	0.508	0.131	0.247
11/7/2018	0.677	<0.1		1.6					
3/26/2019	0.727	<0.1	1.63	1.63	1.74	1.38			
3/27/2019							0.502	0.138	0.488
9/9/2019			1.73		2.33			0.157	
9/10/2019	0.764	<0.1		1.83		1.69			0.398
9/11/2019							0.595		
4/20/2020						1.83			
4/21/2020	0.793	<0.1	1.51	1.77	1.97		0.72	0.14	0.347
4/22/2020									
8/11/2020					2.03	1.93			
8/12/2020		<0.1	1.53				0.695		
8/17/2020								0.152	0.496
8/18/2020									
8/19/2020	0.561			1.86					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	0.454	<0.1	0.0922 (J)						
4/12/2016	0.444	<0.1	0.0935 (J)						
4/13/2016									
5/31/2016	0.424								
6/1/2016		<0.1	0.0826 (J)						
8/15/2016									
8/16/2016	0.438	<0.1		0.0268 (J)	<0.1	<0.1	<0.1	<0.1	
8/17/2016			0.092 (J)						<0.1
9/19/2016				0.0225 (J)		<0.1		<0.1	
9/20/2016					<0.1		<0.1		<0.1
10/11/2016	0.456	<0.1	0.0976 (J)	0.0304 (J)	<0.1	<0.1	<0.1	<0.1	
10/12/2016									0.02 (J)
11/14/2016				0.0355 (J)		<0.1		<0.1	
11/15/2016					<0.1		0.0229 (J)		<0.1
1/3/2017				0.0304 (J)		<0.1		<0.1	
1/4/2017					<0.1		<0.1		<0.1
1/23/2017					<0.1				0.0287 (J)
1/24/2017	0.458	<0.1	0.0877 (J)			0.0282 (J)		<0.1	
1/25/2017				<0.1					
1/26/2017							<0.1		
5/9/2017			0.0953 (J)		<0.1		<0.1		<0.1
5/10/2017	0.486	<0.1		<0.1		<0.1		<0.1	
6/27/2017	0.454			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
6/28/2017		<0.1	0.0835 (J)						
8/29/2017		<0.1	0.0914 (J)						<0.1
8/30/2017	0.441			<0.1	<0.1	<0.1	<0.1	<0.1	
6/4/2018									
6/5/2018	0.543	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
6/6/2018			0.102						
11/5/2018								<0.1	
11/6/2018	0.614		0.0995 (J)	<0.1	<0.1	<0.1	<0.1		<0.1
11/7/2018		<0.1							
3/26/2019	0.697	<0.1			<0.1		<0.1		<0.1
3/27/2019			0.113	<0.1		<0.1		<0.1	
9/9/2019									
9/10/2019	0.73	<0.1	0.105						
9/11/2019				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4/20/2020	0.791								
4/21/2020					<0.1		<0.1		<0.1
4/22/2020		<0.1	0.104	<0.1		<0.1		<0.1	
8/11/2020			0.11			<0.1			
8/12/2020	0.813	<0.1		<0.1				<0.1	
8/17/2020									
8/18/2020					<0.1		<0.1		<0.1
8/19/2020									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

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	<0.1	<0.1
9/19/2016		
9/20/2016	<0.1	<0.1
10/11/2016		
10/12/2016	<0.1	<0.1
11/14/2016		
11/15/2016	<0.1	<0.1
1/3/2017		
1/4/2017	<0.1	<0.1
1/23/2017		0.0217 (J)
1/24/2017	0.0331 (J)	
1/25/2017		
1/26/2017		
5/9/2017	<0.1	<0.1
5/10/2017		
6/27/2017	<0.1	<0.1
6/28/2017		
8/29/2017		<0.1
8/30/2017	<0.1	
6/4/2018		
6/5/2018	<0.1	<0.1
6/6/2018		
11/5/2018		
11/6/2018	<0.1	<0.1
11/7/2018		
3/26/2019	<0.1	<0.1
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	<0.1	<0.1
4/20/2020		
4/21/2020	<0.1	<0.1
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.1	<0.1
8/19/2020		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-6
2/16/2016	75.9	76.3	40.4	33.9	34.6	29.8	44.4		
2/17/2016								158	128
4/12/2016						23.3	43.2		115
4/13/2016	74.1	30.5	32.2	32.5	32.2			151	
5/31/2016		65.9			28.8	25.9	43	158	118
6/1/2016	76.4		29.3	33.9					
8/15/2016									
8/16/2016		65.6	25.4		24	25.5			
8/17/2016	74.2			50.3			35.9	152	120
9/19/2016									
9/20/2016									
10/11/2016									119
10/12/2016	75.7	63.4	30.7	53.3	27.8	29.5	31.1	150	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									110
1/25/2017	76.1	64.2	36.8	59.9	33.7	33.6	42.7	137	
1/26/2017									
5/9/2017			36.1		35.5	30.4	48.1		
5/10/2017	78.6	62.6		66.5				111	104
6/27/2017									
6/28/2017	76.4	60.8	26.9	69.8	28	26	55	108	98
8/29/2017	74.1	61.4	29.4	72	26.4	22.3	83.6	113	108
8/30/2017									
6/4/2018									
6/5/2018	58	65.5		95.1				186	121
6/6/2018			30.2		30.1	23.7	167		
9/10/2018			28.8						
9/11/2018	64.9	66.1		122	27.4	26.8		209	119
9/12/2018							109		
11/5/2018			29.7		28.8	29.4			
11/6/2018									
11/7/2018	68.1	68.5		107			105	175	124
3/26/2019	72		32.4	132	33.7	34.1		193	148
3/27/2019		71.8					162		
9/9/2019									
9/10/2019	91	69.3	28.4	116	30.5		125	188	164
9/11/2019						53.9			
4/20/2020						40.3			
4/21/2020	84.8		43.1	111	51		113	155	142
4/22/2020		62.9							
8/11/2020							118		
8/12/2020									
8/17/2020									
8/18/2020		74.4	25.5	109	42.9	95.3			
8/19/2020	98.6							147	162

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016									
2/17/2016	59.8	47.7	57	30.7	89.6	106	75	38.7	6.54
4/12/2016	56.1	44.4			96.2	95.2		42.7	6.15
4/13/2016			62.5	39.5			70.2		
5/31/2016	56.6	45.3							
6/1/2016			54.4	47.7	90.2	86.1	71.2	41.8	5.7
8/15/2016			56.2	45.6	84.4	89.7	72.2		
8/16/2016		49.4						40.9	6.77
8/17/2016	61								
9/19/2016									
9/20/2016									
10/11/2016	61.3	52.7				90.6	73.8	38.1	8.84
10/12/2016			56.6	57.6	82.9				
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	61	49.4	59.1	69.4	76.4	94.2	72.2	27.7	12.8
1/25/2017									
1/26/2017									
5/9/2017	61.7					90.3	66.4	29.3	
5/10/2017		47.4	62.5	66.2	77.4				12.4
6/27/2017		44.9	63.6	63.8	75.4			28.6	
6/28/2017	66.1					80.7	65.4		17.9
8/29/2017								32.3	19
8/30/2017	78.9	44.4	65.7	75.1	78	84	67.8		
6/4/2018						98.8	68.3		
6/5/2018	64.8	45.1	66.8	77.4	66.3			34.5	30
6/6/2018									
9/10/2018							73.9		
9/11/2018	72.2	48.5						32	28.7
9/12/2018			76.3	58.9	67.8	109			
11/5/2018									
11/6/2018	78.9	49.2	77.4	81.6	72.7	110	75.1		
11/7/2018								30.3	30.7
3/26/2019		54	90	84.7	91.5			31.3	32.3
3/27/2019	69.1					111	96.1		
9/9/2019				66.4	83.2	98.5	111		
9/10/2019		57.2	86.3					30.7	32.8
9/11/2019	90.8								
4/20/2020		61	90.8			91.2			
4/21/2020	93			74.4	81.8		133	30.8	
4/22/2020									31.4
8/11/2020			101	73					
8/12/2020	92.2	72.2			85.9			28	35.8
8/17/2020						78.9	156		
8/18/2020									
8/19/2020									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	18.6	204	10.2						
4/12/2016			10						
4/13/2016	17.8	152							
5/31/2016	17.7								
6/1/2016		183	9.87						
8/15/2016		197							
8/16/2016	18.4			2.02	5.54	39.5	1.24	9.33	
8/17/2016			8.88						7.74
9/19/2016					3.01	34.5		9.26	
9/20/2016				1.22			1.11		2.43
10/11/2016		186	9.22	1.48	2.74	32.4	1.22	9.31	
10/12/2016	17.3								2.46
11/14/2016					2.47	26.5		9.17	
11/15/2016				1.36			1.34		2.28
1/3/2017					2.94	22.6		9.66	
1/4/2017				1.11			2.39		2.7
1/23/2017							1.83		
1/24/2017		193	8.72			19.5		9.67	4.19
1/25/2017	16.6				2.91				
1/26/2017				1.03					
5/9/2017	18	184	8.56	0.289 (J)			0.823		3.28
5/10/2017					2.27	15.7		9.81	
6/27/2017		184		0.292 (J)	2.2	13.8	0.956	9.88	3.76
6/28/2017	22.6		7.16						
8/29/2017	23.9		8.32						
8/30/2017		182		0.336 (J)	2.26	11.1	1.04	10.3	2.31
6/4/2018		157							
6/5/2018	25.7			0.2 (J)	2.97	9.12	1.18	11.4	2.76
6/6/2018			9.05						
9/10/2018	27.2	219							
9/11/2018				0.171 (J)	2.6	7.5	1.5	10.5	2.04
9/12/2018			8.98						
11/5/2018	24.1							10.5	
11/6/2018		186	9.21	0.193 (J)	2.42	7.39	1.64		2
11/7/2018									
3/26/2019				0.223 (J)			1.33		2.13
3/27/2019	31	73.8	9.77		2.75	7.65		11.6	
9/9/2019									
9/10/2019	27.7	147	9.28						
9/11/2019				0.158 (J)	2.17	6.96	0.925	9.95	1.98
4/20/2020									
4/21/2020		90.5		0.287 (J)			0.864		2.41
4/22/2020	36.7		11.3		3.15	5.92		9.87	
8/11/2020			10.7			7.46			
8/12/2020					1.78			9.48	
8/17/2020		81.5							
8/18/2020	37.6			0.231 (J)			0.926		2.23
8/19/2020									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (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	1.1	5.88
9/19/2016		
9/20/2016	0.771	5.95
10/11/2016		
10/12/2016	0.711	6.1
11/14/2016		
11/15/2016	0.641	6.28
1/3/2017		
1/4/2017	0.797	4.97
1/23/2017	0.655	5.17
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	0.538	15.7
5/10/2017		
6/27/2017	0.413 (J)	14.2
6/28/2017		
8/29/2017	0.504	11.1
8/30/2017		
6/4/2018		
6/5/2018	0.339 (J)	3.93
6/6/2018		
9/10/2018		
9/11/2018	0.776	3.76
9/12/2018		
11/5/2018		
11/6/2018	0.746	4.81
11/7/2018		
3/26/2019	0.526	3.18
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	0.638	3.98
4/20/2020		
4/21/2020	1.15	3.83
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	0.884	4.58
8/19/2020		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-6
2/16/2016	67.9	18.4	9.95	15.6	10.8	6.52	16.4		
2/17/2016								62.7	31.8
4/12/2016						4.47	15.9		28.9
4/13/2016	64.1	19	7.33	14.3	8.2			57.8	
5/31/2016		19.2			7.74	10.8	13.6	55.6	28.7
6/1/2016	66.3		6.97	12.6					
8/15/2016									
8/16/2016		17.7	12		12.5	16.6			
8/17/2016	56.7			14.4			12.8	53.3	32.2
9/19/2016									
9/20/2016									
10/11/2016									34.2
10/12/2016	56.1	16.8	15.4	16.4	15.7	18.5	16.3	51.2	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									38.1
1/25/2017	53.6	18.6	24.7	20	24.4	22	16.4	44.8	
1/26/2017									
5/9/2017			17		15	10	19		
5/10/2017	48	22		24				44	41
6/27/2017									
6/28/2017	49	20	11	25	12	9.4	17	45	36
8/29/2017	52	20	12	25	10	9.3	17	43	35
8/30/2017									
6/4/2018									
6/5/2018	38	18		25				49	32
6/6/2018			9.7		11	6.1	14		
9/10/2018			12						
9/11/2018	37	19		26	12	14		52	36
9/12/2018							14		
11/5/2018			16		17	18			
11/6/2018									
11/7/2018	41	19		25			15	58	30
3/26/2019	39.7		17.2	25.3	14.5	4.7		71	31.9
3/27/2019		17.1					14.9		
9/9/2019									
9/10/2019	56.1	16.5	11	28	10.9		13.5	67	27.3
9/11/2019						12.3			
4/20/2020						4.7			
4/21/2020	69.5		10.1	24.2	9.49		14.8	66.2	37.4
4/22/2020		17.6							
8/11/2020							12.7		
8/12/2020									
8/17/2020									
8/18/2020		21.3	5.54	31.4	6.46	8.24			
8/19/2020	70.5							123	39.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016									
2/17/2016	16.4	11.8	12.5	14.6	22.3	25.2	14.7	1.54	3.3
4/12/2016	16.6	12.6			22.1	24.6		1.51	3.25
4/13/2016			13.6	14.9			14.3		
5/31/2016	16.8	12.9							
6/1/2016			14.2	15.9	22	24.5	14.6	1.46	3.55
8/15/2016			13.6	19.5	22.4	24.2	14.7		
8/16/2016		10.2						1.5	3.45
8/17/2016	16.4								
9/19/2016									
9/20/2016									
10/11/2016	15.2	10.2				24.4	14.8	1.52	3.78
10/12/2016			13.8	18.5	22.1				
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	15.1	11.2	14.2	19	23.2	24.6	15	1.38	4.61
1/25/2017									
1/26/2017									
5/9/2017	17					27	16	2.4	
5/10/2017		14	18	24	26				5.9
6/27/2017		14	17	24	25			2.1	
6/28/2017	17					26	15		5.7
8/29/2017								2.4	6.8
8/30/2017	17	14	16	18	25	26	15		
6/4/2018						27	16		
6/5/2018	15	13	15	15	25			1.7 (J)	7.9
6/6/2018									
9/10/2018							17		
9/11/2018	14	14						1.5 (J)	6.1
9/12/2018			17	23	23	26			
11/5/2018									
11/6/2018	13	14	15	11	26	26	17		
11/7/2018								1.4 (J)	5.2
3/26/2019		13	9.27	9.52	25.4			1.23	6.92
3/27/2019	16.1					24.8	14.8		
9/9/2019				15.4	25.6	23.8	14		
9/10/2019		12.8	12.7					1.38	4.39
9/11/2019	11.6								
4/20/2020		12	12.1			24.5			
4/21/2020	12.3			11.1	26.3		12.3	1.08	
4/22/2020									2.75
8/11/2020			12.1	15.4					
8/12/2020	13	11.4			24.5			1.28	4.14
8/17/2020						24.6	13.1		
8/18/2020									
8/19/2020									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	16.6	16	22.9						
4/12/2016			22.2						
4/13/2016	17	21.5							
5/31/2016	19								
6/1/2016		52.5	22.3						
8/15/2016		33.3							
8/16/2016	17			2.21	4.88	5.32	2.54	4.24	
8/17/2016			22.1						1.77
9/19/2016					4.45	5.29		4.13	
9/20/2016				2.12			2.51		1.56
10/11/2016		22.2	21.8	2.24	4.36	5.26	2.34	4.07	
10/12/2016	16.2								1.54
11/14/2016					4.42	5.28		4.08	
11/15/2016				6.65			2.1		1.53
1/3/2017					5.18	5.18		4.06	
1/4/2017				2.15			2.44		1.58
1/23/2017							2.37		
1/24/2017		18.4	21.8			5.41		4.4	1.71
1/25/2017	18				5.66				
1/26/2017				2.31					
5/9/2017	23	30	23	2.3			2.8		2.1
5/10/2017					8	5.8		4.4	
6/27/2017		29		2.1	7.2	5.4	2.1	4	2
6/28/2017	24		22						
8/29/2017	15		22						
8/30/2017		23		2.8	6.9	6	3	4.8	1.5 (J)
6/4/2018		22							
6/5/2018	16			1.8 (J)	4.2	5.2	2.3	3.8	1.2 (J)
6/6/2018			20						
9/10/2018	13	22							
9/11/2018				<2	4.2	5.5	1.5 (J)	4.1	<2
9/12/2018			20						
11/5/2018	13							3.9	
11/6/2018		17	21	<2	4.5	5.1	1.4 (J)		<2
11/7/2018									
3/26/2019				1.07			2.42		1.2
3/27/2019	14.2	18	18.4		4.33	5.26		3.9	
9/9/2019									
9/10/2019	8.88	18.1	17.7						
9/11/2019				1.19	4.16	5.31	3.72	4.21	1.26
4/20/2020									
4/21/2020		19.5		1.09			3.89		1.32
4/22/2020	20.5		17.1		5.66	5.37		4	
8/11/2020			16.7			5.45			
8/12/2020					4.46			4.17	
8/17/2020		23.2							
8/18/2020	16.2			1.05			3.8		1.38
8/19/2020									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (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	1.78	2.44
9/19/2016		
9/20/2016	1.61	2.54
10/11/2016		
10/12/2016	1.51	2.67
11/14/2016		
11/15/2016	1.5	2.94
1/3/2017		
1/4/2017	1.53	2.92
1/23/2017	1.62	3.21
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	2.2	2.5
5/10/2017		
6/27/2017	1.9 (J)	3
6/28/2017		
8/29/2017	2	3.6
8/30/2017		
6/4/2018		
6/5/2018	1.9 (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	1.9 (J)	2.5
11/7/2018		
3/26/2019	2.18	2
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.7	2.34
4/20/2020		
4/21/2020	1.9	2.04
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	1.63	2.16
8/19/2020		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-14	GC-AP-MW-9	GC-AP-MW-10	GC-AP-MW-8	GC-AP-MW-1	GC-AP-MW-5
2/16/2016	0.16 (J)	0.14 (J)	0.18 (J)	0.13 (J)	0.16 (J)	0.23 (J)	0.08 (J)		
2/17/2016								0.05 (J)	0.22 (J)
4/12/2016		0.119 (J)		0.137 (J)					0.214 (J)
4/13/2016	0.163 (J)		0.191 (J)		0.15 (J)	0.236 (J)	0.088 (J)	0.061 (J)	
5/31/2016	0.19 (J)	0.132 (J)		0.149 (J)		0.255 (J)			0.232 (J)
6/1/2016			0.201 (J)		0.19 (J)		0.109 (J)	0.079 (J)	
8/15/2016								0.081 (J)	
8/16/2016	0.219 (J)	0.177 (J)	0.218 (J)			0.238 (J)			
8/17/2016				0.147 (J)	0.171 (J)		0.089 (J)		0.225 (J)
9/19/2016									
9/20/2016									
10/11/2016								0.049 (J)	0.19 (J)
10/12/2016	0.163 (J)	0.149 (J)	0.171 (J)	0.115 (J)	0.137 (J)	0.198 (J)	0.048 (J)		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017				0.11				0.04 (J)	0.22
3/15/2017	0.13	0.16	0.16		0.15	0.22	0.08 (J)		
5/9/2017	0.15	0.18	0.17	0.14				0.05 (J)	0.21
5/10/2017					0.17	0.25	0.1		
6/27/2017								0.04 (J)	
6/28/2017	0.17	0.18	0.18	0.13	0.16	0.09 (J)	0.09 (J)		0.21
8/29/2017	0.22	0.19	0.23	0.14	0.19	0.26	0.11		
8/30/2017								0.04 (J)	0.25
2/27/2018				0.13	0.19	0.26	0.11	0.07 (J)	0.23
2/28/2018	0.19	0.14	0.2						
6/4/2018								0.07 (J)	
6/5/2018					0.19	0.24	0.11		0.24
6/6/2018	0.19	0.13	0.19	0.15					
11/5/2018	0.2	0.15	0.22						
11/6/2018								0.04 (J)	0.22
11/7/2018				0.19	0.2	0.25	0.11		
3/26/2019	0.196	0.0775 (J)	0.219		0.223		0.162		
3/27/2019				0.248		0.206		0.192	0.208
9/9/2019									
9/10/2019	0.26		0.194	0.209	0.178	0.226	0.113	0.179	
9/11/2019		0.118							0.2
4/20/2020		0.0844 (J)							
4/21/2020	0.198		0.173	0.254	0.181		0.114	0.12	0.224
4/22/2020						0.224			
8/11/2020				0.278					
8/12/2020									0.221
8/17/2020								0.115	
8/18/2020	0.223	0.108	0.18		0.177	0.203			
8/19/2020							0.116		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-2	GC-AP-MW-15	GC-AP-MW-18	GC-AP-MW-17	GC-AP-MW-25	GC-AP-MW-6
2/16/2016									
2/17/2016	0.11 (J)	0.08 (J)	0.02 (J)	0.09 (J)	0.09 (J)	0.15 (J)	0.53	0.02 (J)	0.17 (J)
4/12/2016		0.077 (J)	0.026 (J)		0.107 (J)	0.168 (J)		0.021 (J)	0.203 (J)
4/13/2016	0.119 (J)			0.092 (J)			0.437		
5/31/2016	0.134 (J)				0.145 (J)				0.212 (J)
6/1/2016		0.101 (J)	0.057 (J)	0.108 (J)		0.178 (J)	0.376	0.051 (J)	
8/15/2016				0.105 (J)		0.149 (J)	0.362		
8/16/2016	0.116 (J)	0.093 (J)	0.046 (J)		0.135 (J)				
8/17/2016								0.037 (J)	0.19 (J)
9/19/2016									
9/20/2016									
10/11/2016		0.059 (J)	<0.1	0.062 (J)	0.096 (J)			<0.1	0.15 (J)
10/12/2016	0.076 (J)					0.12 (J)	0.377		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	0.09 (J)	0.07 (J)	<0.1	<0.1	0.09 (J)	0.17	0.41	<0.1	0.18
3/15/2017									
5/9/2017	0.11	0.08 (J)		0.07 (J)				<0.1	
5/10/2017			<0.1		0.11	0.17	0.36		0.19
6/27/2017		0.08 (J)			0.1	0.18	0.38		
6/28/2017	0.17		<0.1	0.09 (J)				0.04 (J)	0.18
8/29/2017	0.14	0.1	0.04 (J)					<0.1	0.22
8/30/2017				0.07 (J)	0.13	0.21	0.38		
2/27/2018	0.14	0.08 (J)	<0.1	0.08 (J)					0.22
2/28/2018					0.09 (J)	0.17	0.58	<0.1	
6/4/2018				0.09 (J)					
6/5/2018	0.16	0.09 (J)	0.04 (J)		0.13	0.17	0.41		0.23
6/6/2018								<0.1	
11/5/2018	0.15								
11/6/2018				0.07 (J)	0.12	0.17	0.45	<0.1	
11/7/2018		0.08 (J)	<0.1						0.22
3/26/2019		0.123	<0.1		0.113	0.192	0.573		0.253
3/27/2019	0.104			0.089 (J)				<0.1	
9/9/2019				0.163		0.157	0.477		
9/10/2019	0.191	0.0914 (J)	0.0545 (J)		0.122			<0.1	0.227
9/11/2019									
4/20/2020					0.14				
4/21/2020		0.095 (J)		0.126		0.171	0.565		0.218
4/22/2020	0.167		<0.1					<0.1	
8/11/2020							0.515	<0.1	
8/12/2020		0.0867 (J)	<0.1		0.147	0.198			
8/17/2020				0.0753 (J)					
8/18/2020	0.165								
8/19/2020									0.223

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-16	GC-AP-MW-7	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-27 (bg)
2/16/2016									
2/17/2016	0.08 (J)	0.2 (J)	0.07 (J)						
4/12/2016	0.083 (J)								
4/13/2016		0.173 (J)	0.081 (J)						
5/31/2016			0.103 (J)						
6/1/2016	0.118 (J)	0.253 (J)							
8/15/2016	0.109 (J)	0.224 (J)							
8/16/2016				0.087 (J)	0.061 (J)	0.054 (J)	0.036 (J)	0.05 (J)	
8/17/2016			0.078 (J)						0.039 (J)
9/19/2016				0.045 (J)	0.018 (J)	0.023 (J)			
9/20/2016							<0.1	0.015 (J)	0.01 (o)
10/11/2016	0.066 (J)			0.034 (J)	<0.1	0.011 (J)	<0.1	<0.1	
10/12/2016		0.187 (J)	0.041 (J)						<0.1
11/14/2016				<0.1	<0.1	<0.1			
11/15/2016							<0.1	<0.1	<0.1
1/3/2017				<0.1	<0.1	<0.1			
1/4/2017							<0.1	<0.1	<0.1
3/13/2017								<0.1	
3/14/2017	0.07 (J)	0.23	0.07 (J)	<0.1	<0.1	<0.1	<0.1		<0.1
3/15/2017									
5/9/2017	0.09 (J)						<0.1	<0.1	<0.1
5/10/2017		0.23	0.09 (J)	0.05 (J)	0.06 (J)	0.05 (J)			
6/27/2017		0.22		0.05 (J)	0.07 (J)	0.04 (J)	<0.1	<0.1	<0.1
6/28/2017	0.1		0.08 (J)						
8/29/2017			0.09 (J)						<0.1
8/30/2017	0.12	0.28		<0.1	0.08 (J)	0.04 (J)	<0.1	<0.1	
2/27/2018	0.09 (J)		0.08 (J)	<0.1	0.07 (J)	0.04 (J)	<0.1	<0.1	<0.1
2/28/2018		0.23							
6/4/2018	0.1								
6/5/2018		0.28	0.08 (J)	<0.1	0.1	0.04 (J)	<0.1	<0.1	<0.1
6/6/2018									
11/5/2018						<0.1			
11/6/2018	0.1	0.24		<0.1	0.08 (J)		<0.1	<0.1	<0.1
11/7/2018			0.08 (J)						
3/26/2019		0.316	0.106				<0.1	<0.1	<0.1
3/27/2019	0.13			<0.1	<0.1	<0.1			
9/9/2019	0.121								
9/10/2019		0.267	0.086 (J)						
9/11/2019				<0.1	<0.1	0.0518 (J)	<0.1	<0.1	<0.1
4/20/2020	0.112	0.245							
4/21/2020			0.0951 (J)				<0.1	<0.1	<0.1
4/22/2020				<0.1	<0.1	<0.1			
8/11/2020		0.294		<0.1					
8/12/2020					<0.1	<0.1			
8/17/2020	0.148								
8/18/2020							<0.1	<0.1	<0.1
8/19/2020			0.103						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

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	0.055 (J)	0.159 (J)
9/19/2016		
9/20/2016	0.021 (o)	0.126 (J)
10/11/2016		
10/12/2016	<0.1	0.1 (J)
11/14/2016		
11/15/2016	<0.1	0.016 (J)
1/3/2017		
1/4/2017	<0.1	<0.1
3/13/2017		0.31 (o)
3/14/2017	<0.1	
3/15/2017		
5/9/2017	<0.1	0.25 (o)
5/10/2017		
6/27/2017	<0.1	0.22 (o)
6/28/2017		
8/29/2017		0.22 (o)
8/30/2017	<0.1	
2/27/2018	<0.1	0.08 (J)
2/28/2018		
6/4/2018		
6/5/2018	<0.1	0.07 (J)
6/6/2018		
11/5/2018		
11/6/2018	<0.1	0.07 (J)
11/7/2018		
3/26/2019	<0.1	<0.1
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	0.0649 (J)	0.0716 (J)
4/20/2020		
4/21/2020	<0.1	<0.1
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.1	<0.1
8/19/2020		

Prediction Limit

Constituent: pH (SU) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-21	GC-AP-MW-17	GC-AP-MW-18
2/16/2016	6.5	6.16	6.4	6.21	6.29	6.84	7.15		
2/17/2016								6.32	6.23
4/12/2016			6.41	6.37					6.3
4/13/2016	6.32	6.29			6.21	7.03	7.1	6.44	
5/31/2016			6.22	6.42	6.45	6.94			
6/1/2016	6.43	6.33					6.76	6.24	6.24
8/15/2016								6.34	6.25
8/16/2016			6.41		6.58	6.84	6.99		
8/17/2016	6.46	6.27		6.42					
9/19/2016									
9/20/2016									
10/11/2016									
10/12/2016	6.53	6.3	6.42	6.38	6.6	6.75	6.89	6.42	6.26
10/31/2016									
11/1/2016			6.55	6.33					
11/2/2016								6.48	6.3
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								6.53	6.3
1/25/2017	6.45	6.27	6.76	6.37	6.47	6.87	6.84		
1/26/2017									
3/13/2017									
3/14/2017				6.3				6.43	6.31
3/15/2017	6.39	6.27	6.82		6.54	6.9	6.78		
5/9/2017			6.7	6.43		6.85	6.83		
5/10/2017	6.39	6.25			6.53			6.33	6.34
5/31/2017									
6/27/2017								6.38	6.32
6/28/2017	6.4	6.25	6.58	6.4	6.49	6.85	6.98		
8/29/2017	6.47	6.32	6.4	6.32	6.49	6.86	6.8		
8/30/2017								6.31	6.38
2/27/2018	6.54	6.36		6.28	6.59				
2/28/2018			6.72			6.94	6.87	6.57	6.31
6/4/2018									
6/5/2018	6.47	6.3			6.52			6.21	6.16
6/6/2018			6.57	6.25		6.99	6.94		
9/10/2018							6.74		
9/11/2018	6.53	6.36	6.64		6.53	6.87			
9/12/2018				6.42				6.43	6.29
11/5/2018			6.69			6.81	6.66		
11/6/2018								6.47	6.31
11/7/2018	6.49	6.31		6.42	6.51				
3/26/2019	6.47	6.32	6.54			6.95	6.84	6.52	6.3
3/27/2019				6.41	6.53				
9/9/2019								5.84	6.28
9/10/2019	6.43	6.31		6.11	6.33	6.69	6.58		
9/11/2019			6.22						

Prediction Limit

Constituent: pH (SU) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-21	GC-AP-MW-17	GC-AP-MW-18
4/20/2020			6.68						
4/21/2020	6.25	6.06		6.31		6.96	6.81	6.61	6.31
4/22/2020					6.44				
8/11/2020				6.02				6.71	
8/12/2020									6.62
8/17/2020									
8/18/2020	6.21		6.76		6.33	6.98	6.31		
8/19/2020		6.06							

Prediction Limit

Constituent: pH (SU) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-2	GC-AP-MW-16	GC-AP-MW-11	GC-AP-MW-7	GC-AP-MW-15	GC-AP-MW-1
2/16/2016									
2/17/2016	6.46	6.29	6.63	6.01	6.18	6.04	6.45	6.02	5.8
4/12/2016	6.45	6.33	6.59					6.17	
4/13/2016				6.17	6.28	6.07	6.49		5.85
5/31/2016	6.51		6.57			6.03	6.43	6.15	
6/1/2016		6.4		6.18	6.36				5.92
8/15/2016		6.36		6.12	6.37				5.99
8/16/2016						6.09		6.21	
8/17/2016	6.54		6.72				6.43		
9/19/2016									
9/20/2016									
10/11/2016	6.53	6.38	6.69	6.09				6.14	6.02
10/12/2016					6.32	6.06	6.46		
10/31/2016									
11/1/2016								6.15	
11/2/2016					6.33				
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	6.44	6.34	6.61	6.04	6.29			6.11	5.92
1/25/2017						5.94	6.43		
1/26/2017									
3/13/2017									
3/14/2017	6.4	6.42	6.55	6.11	6.27	6.08	6.41	6.09	5.96
3/15/2017									
5/9/2017		6.35	6.65	6.1		6.07			5.93
5/10/2017	6.4				6.3		6.41	6.11	
5/31/2017									
6/27/2017					6.28			6.09	5.86
6/28/2017	6.46	6.32	6.66	6.09		6.02	6.46		
8/29/2017	6.47					6.19	6.46		
8/30/2017		6.32	6.66	6.07	6.34			6.1	5.88
2/27/2018	6.53	6.39	6.73	6.09		6.21	6.45		5.92
2/28/2018					6.33			6.11	
6/4/2018		6.4		6.07					5.89
6/5/2018	6.49		6.63		6.29	6.27	6.36	6.05	
6/6/2018									
9/10/2018				6		6.33			5.89
9/11/2018	6.48		6.65				6.38	6.18	
9/12/2018		6.35			6.36				
11/5/2018						6.26			
11/6/2018		6.34	6.65	6.04	6.37			6.09	5.95
11/7/2018	6.48						6.37		
3/26/2019	6.54				6.34		6.39	6.1	
3/27/2019		6.44	6.59	6.06		6.37			5.8
9/9/2019		6.22		6.13					
9/10/2019	6.55				6.35	5.91	6.39	5.82	5.88
9/11/2019			6.36						

Prediction Limit

Constituent: pH (SU) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-3	GC-AP-MW-5	GC-AP-MW-2	GC-AP-MW-16	GC-AP-MW-11	GC-AP-MW-7	GC-AP-MW-15	GC-AP-MW-1
4/20/2020		6.4			6.43			6.16	
4/21/2020	6.54		6.5	5.99			6.39		5.72
4/22/2020						6.26			
8/11/2020					6.7				
8/12/2020			6.36					6.1	
8/17/2020		5.85		5.91					5.54
8/18/2020						6			
8/19/2020	6.49						6.14		

Prediction Limit

Constituent: pH (SU) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	6.8	5.39	5.36						
4/12/2016	6.54	5.29	5.31						
4/13/2016									
5/31/2016									
6/1/2016	6.49	5.39	5.35						
8/15/2016									
8/16/2016	6.57	5.51		6.34	5.39	6	6.21	7.13	
8/17/2016			5.38						5.85
9/19/2016				6.11		6		6.94	
9/20/2016					5.37		6.05		5.82
10/11/2016	6.54	5.44	5.31	5.99	5.39	6.02	6.2	6.82	
10/12/2016									5.76
10/31/2016					5.36		6.61		
11/1/2016				5.84		5.97		6.71	
11/2/2016	6.54	5.49	5.39						
11/14/2016				5.83		5.98		6.57	
11/15/2016					5.33		6.64		5.79
11/28/2016				5.79		6		6.57	
11/29/2016					5.33		6.39		5.73
1/3/2017				5.39		6.03		6.56	
1/4/2017					5.49		6.06		5.69
1/23/2017					5.48				5.45
1/24/2017	6.42	5.44	5.29			5.9		6.41	
1/25/2017				5.09					
1/26/2017							6.02		
3/13/2017							5.68		4.8
3/14/2017	6.59	5.48	5.19	4.99	5.17	6.07		6.37	
3/15/2017									
5/9/2017	6.42		5.29		5.11		5.05		4.82
5/10/2017		5.43		4.63		6		6.41	
5/31/2017						6.02			
6/27/2017	6.44			4.76	5.29	6.05	4.9	6.14	5.27
6/28/2017		5.49	5.27						
8/29/2017	6.43	5.46	5.27						5.28
8/30/2017				4.85	5.09	6.13	4.73	6.08	
2/27/2018	6.49	5.48		4.69	5.25	6.1	4.87	5.99	5.11
2/28/2018			5.28						
6/4/2018									
6/5/2018	6.43	5.31		4.62	5.12	6.05	4.89	5.93	5.24
6/6/2018			5.21						
9/10/2018									
9/11/2018	6.35	5.36		4.79	5.19	6.07	4.88	5.86	5.28
9/12/2018			5.23						
11/5/2018						6.01			
11/6/2018			5.28	4.62	5.12		4.86	5.89	5.54
11/7/2018	6.37	5.34							
3/26/2019	6.46	5.32			5.16		4.97		5.4
3/27/2019			5.27	4.68		6.15		5.95	
9/9/2019									
9/10/2019	5.85	4.9	5.15						
9/11/2019				4.57	4.11	5.87	3.96	5.85	5.53

Prediction Limit

Constituent: pH (SU) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-26 (bg)
4/20/2020									
4/21/2020	6.26				4.44		3.9		5.3
4/22/2020		5.3	5.26	4.71		5.92		5.75	
8/11/2020			4.81					5.63	
8/12/2020	6.03	5.04		4.65		5.84			
8/17/2020									
8/18/2020					4.76		4.22		4.79
8/19/2020									

Prediction Limit

Constituent: pH (SU) Analysis Run 10/26/2020 2:51 PM View: Appendix III

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 10/26/2020 2:51 PM View: Appendix III

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		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-6
2/16/2016	49.4	9.03	125	45.2	119	113	108		
2/17/2016								311	132
4/12/2016						86.7	114		130
4/13/2016	51.7	10.7	119	43.9	122			330	
5/31/2016		10.2			94.3	83.1	114	324	111
6/1/2016	51.2		99.2	32					
8/15/2016									
8/16/2016		9.1	71.9		67.1	59.3			
8/17/2016	42.9			31.9			85.4	306	95.8
9/19/2016									
9/20/2016									
10/11/2016									101
10/12/2016	39.5	7.24	93.9	39.6	94.1	99.3	53.5	296	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									129
1/25/2017	31.3	9.71	103	44	101	113	75.4	243	
1/26/2017									
5/9/2017			100		91	74	84		
5/10/2017	30	11		32				210	120
6/27/2017									
6/28/2017	35	10	69	34	71	71	120	210	100
8/29/2017	40	14	77	34	80	72	180	220	95
8/30/2017									
6/4/2018									
6/5/2018	25	39		22				390	98
6/6/2018			81		62	48	450		
9/10/2018			64						
9/11/2018	23	29		33	63	62		360	100
9/12/2018							200		
11/5/2018			68		74	81			
11/6/2018									
11/7/2018	30	45		76			180	390	97
3/26/2019	21.6		92	138	92.3	92.4		430	120
3/27/2019		66.2					335		
9/9/2019									
9/10/2019	37.4	50.5	63.1	115	89.3		193	409	140
9/11/2019						128			
4/20/2020						76.5			
4/21/2020	43.3		99	133	121		168	318	153
4/22/2020		63.2							
8/11/2020							242		
8/12/2020									
8/17/2020									
8/18/2020		58.6	63.4	115	89	203			
8/19/2020	44.5							296	163

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016									
2/17/2016	<1	187	87.4	72.3	60.2	<1	304	14.7	10.4
4/12/2016	0.483 (J)	188			68.2	0.49 (J)		20	11.3
4/13/2016			92.7	123			307		
5/31/2016	0.518 (J)	183							
6/1/2016			111	144	61.4	0.544 (J)	273	20.1	10.4
8/15/2016			98.3	50.1	56	0.332 (J)	275		
8/16/2016		196						19.1	12.2
8/17/2016	3.63								
9/19/2016									
9/20/2016									
10/11/2016	15.6	216				<1	284	18.4	19.8
10/12/2016			99.3	72.6	36.6				
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	28.9	183	85.4	63.4	12.3	<1	302	15	30.7
1/25/2017									
1/26/2017									
5/9/2017	25					2.1 (J)	250	14	
5/10/2017		160	74	82	10				33
6/27/2017		150	75	44	9.7			14	
6/28/2017	45					<1	230		56
8/29/2017								16	61
8/30/2017	96	160	87	230	7.8	<1	250		
6/4/2018						1.4 (J)	260		
6/5/2018	36	160	87	230	13			14	97
6/6/2018									
9/10/2018							280		
9/11/2018	48	140						13	83
9/12/2018			63	33	28	<1			
11/5/2018									
11/6/2018	93	160	97	220	11	<1	280		
11/7/2018								14	91
3/26/2019		157	123	161	21.3			12.3	103
3/27/2019	33.4					6.64	375		
9/9/2019				57.3	17.8	6.56	385		
9/10/2019		150	68					12.4	83.4
9/11/2019	149								
4/20/2020		142	49.6			10.5			
4/21/2020	163			78	19.2		522	10.2	
4/22/2020									84.7
8/11/2020			55	46.7					
8/12/2020	132	160			13.8			10.2	82.2
8/17/2020						17.3	497		
8/18/2020									
8/19/2020									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	40.2	785	28.7						
4/12/2016			32.5						
4/13/2016	33.1	715							
5/31/2016	28.1								
6/1/2016		832	31.9						
8/15/2016		862							
8/16/2016	38.5			0.894 (J)	9.33	1.78	0.702 (J)	2.06	
8/17/2016			30.5						6.46
9/19/2016					11.2	2.06		1.44	
9/20/2016				<1			<1		8.3
10/11/2016		888	32.3	<1	12.6	2.33	<1	1.38	
10/12/2016	38.3								8.36
11/14/2016					12.4	2.31		1.15	
11/15/2016				1.19			<1		8.75
1/3/2017					14.3	2.81		1.57	
1/4/2017				<1			<1		7.85
1/23/2017							0.493 (J)		
1/24/2017		906	33.5			3.34		2.06	6.62
1/25/2017	32				15.2				
1/26/2017				0.6 (J)					
5/9/2017	44	810	33	<1			<1		5.6
5/10/2017					12	2.9 (J)		2.1 (J)	
6/27/2017		830		<1	13	3.4 (J)	<1	2.7 (J)	5.3
6/28/2017	88		35						
8/29/2017	110		37						
8/30/2017		910		<1	15	3.7 (J)	<1	2.6 (J)	8.2
6/4/2018		850							
6/5/2018	79			1.4 (J)	17	3.7 (J)	<1	3.1 (J)	8.3
6/6/2018			47						
9/10/2018	80	920							
9/11/2018				<1	16	2.2 (J)	<1	1.6 (J)	8.9
9/12/2018			41						
11/5/2018	81							2.4 (J)	
11/6/2018		880	48	<1	15	3.1 (J)	<1		8.6
11/7/2018									
3/26/2019				0.594 (J)			<1		10.1
3/27/2019	83.2	1090	62.4		15.1	3.55		3.24	
9/9/2019									
9/10/2019	87.2	992	66						
9/11/2019				<1	14.5	3.83	<1	2.66	10.6
4/20/2020									
4/21/2020		874		0.694 (J)			<1		9.4
4/22/2020	58.7		76.1		9.64	3.78		2.51	
8/11/2020			79.5			4.33			
8/12/2020					13.6			2.54	
8/17/2020		919							
8/18/2020	81.1			0.608 (J)			<1		10.3
8/19/2020									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (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	0.928 (J)	16.2
9/19/2016		
9/20/2016	0.478 (J)	14.9
10/11/2016		
10/12/2016	0.727 (J)	12.4
11/14/2016		
11/15/2016	0.448 (J)	8.6
1/3/2017		
1/4/2017	0.627 (J)	12.2
1/23/2017	1.34	16
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	<1	55
5/10/2017		
6/27/2017	<1	45
6/28/2017		
8/29/2017	<1	37
8/30/2017		
6/4/2018		
6/5/2018	2.1 (J)	9.3
6/6/2018		
9/10/2018		
9/11/2018	<1	7.8
9/12/2018		
11/5/2018		
11/6/2018	<1	6
11/7/2018		
3/26/2019	1.66	6.86
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.29	5.29
4/20/2020		
4/21/2020	2.21	6.28
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	1.57	9.57
8/19/2020		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-7	GC-AP-MW-6
2/16/2016	656	312	264	226	264	242	340		
2/17/2016								892	640
4/12/2016						176	298		610
4/13/2016	634	324	226	202	238			1010	
5/31/2016		333			206	189	309	1100	626
6/1/2016	672		231	224					
8/15/2016									
8/16/2016		327	181		180	192			
8/17/2016	624			290			269	1070	628
9/19/2016									
9/20/2016									
10/11/2016									636
10/12/2016	586	312	225	315	223			1040	
10/31/2016									
11/1/2016						244	252		
11/2/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									696
1/25/2017	596	286	277	332	271	274	259	972	
1/26/2017									
5/9/2017			255		236	191	285		
5/10/2017	576	326		361				740	687
6/27/2017									
6/28/2017	612	304	175	396	198	176	348	914	622
8/29/2017	640	348	218	402	187	163	528	924	616
8/30/2017									
6/4/2018									
6/5/2018	474	346		448				1060	582
6/6/2018			207		199	138	932		
9/10/2018			197						
9/11/2018	496	335		462	184	185		1020	616
9/12/2018							180		
11/5/2018			200		210	208			
11/6/2018									
11/7/2018	514	342		506			528	1050	576
3/26/2019	546		218	586	230	198		1100	682
3/27/2019		347					834		
9/9/2019									
9/10/2019	601 (D)	351	198	586	218 (D)		658	1100	744
9/11/2019						316			
4/20/2020						201			
4/21/2020	638		265	578	291		628	1010	742
4/22/2020		338							
8/11/2020							688		
8/12/2020									
8/17/2020									
8/18/2020		376	179	542	250	444			
8/19/2020	658							1050	788

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)
2/16/2016									
2/17/2016	238	408	310	328	464	358	516	142	53
4/12/2016	316	334			491	393		155	38.7
4/13/2016			372	373			508		
5/31/2016	320	351							
6/1/2016			360	442	468	381	494	148	46
8/15/2016			366	392	454	348	476		
8/16/2016		367						132	48
8/17/2016	325								
9/19/2016									
9/20/2016									
10/11/2016	333					379	508		
10/12/2016									
10/31/2016									
11/1/2016		372							
11/2/2016			374	469	422			115	66.7
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	336	354	380	464	408	354	510	107	78.7
1/25/2017									
1/26/2017									
5/9/2017	317					368	510	80.7	
5/10/2017		332	381	492	358				92.7
6/27/2017		331	404	516	382			96.7	
6/28/2017	373					368	480		118
8/29/2017								120	128
8/30/2017	432	317	420	646	392	370	478		
6/4/2018						369	528		
6/5/2018	347	318	408	644	352			113	171
6/6/2018									
9/10/2018							472		
9/11/2018	370	321						108	170
9/12/2018			415	476	339	354			
11/5/2018									
11/6/2018	409	331	447	634	368	354	522		
11/7/2018								96.7	163
3/26/2019		338 (D)	481	516	406			103	174
3/27/2019	328					362	562		
9/9/2019				500	409 (D)	371	666		
9/10/2019		358	453					107	167
9/11/2019	455								
4/20/2020		369	461			371			
4/21/2020	494			490	429		878	107	
4/22/2020									162
8/11/2020			482	522					
8/12/2020	433	401			390			96	165
8/17/2020						361	818		
8/18/2020									
8/19/2020									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-11	GC-AP-MW-1	GC-AP-MW-25	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	158	1540	144						
4/12/2016			140						
4/13/2016	161	1200							
5/31/2016	173								
6/1/2016		1440	139						
8/15/2016		1420							
8/16/2016	173			41.3	101	142	<25	49.3	
8/17/2016			142						65.3
9/19/2016					80	121		44.7	
9/20/2016				42.7			26.7		44
10/11/2016		1420							
10/12/2016	173								
10/31/2016				140			25.3		38.7
11/1/2016					78	103		48	
11/2/2016			128						
11/28/2016					68.7	84		40.7	
11/29/2016				78			<25		34
1/3/2017					60.7	89.3		49.3	
1/4/2017				34			34.7		42
1/23/2017							33.3		
1/24/2017		1350	124			83.3		48.7	45.3
1/25/2017	161				54.7				
1/26/2017				32.7					
5/9/2017	195	1540	136	<25			<25		49.3
5/10/2017					60.7	31.3		46.7	
6/27/2017		1470		30.7	58	67.3	<25	55.3	46
6/28/2017	227		145						
8/29/2017	229		139						
8/30/2017		1530		25.3	66.7	64	28	57.3	38.7
6/4/2018		1370							
6/5/2018	200			<25	71.3	50	28.7	52.7	34.7
6/6/2018			153						
9/10/2018	183	1380							
9/11/2018				<25	66.7	53.3	29.3	60	34.7
9/12/2018			156						
11/5/2018	193							53.3	
11/6/2018		1450	153	<25	61.3	66	<25		36
11/7/2018									
3/26/2019				<25			19.9 (D)		30
3/27/2019	211	1910	178		65.3	48.7		51.35 (D)	
9/9/2019									
9/10/2019	201	1740	182						
9/11/2019				<25	68.3 (D)	52.7	34	55.3	40
4/20/2020									
4/21/2020		1530		<25			26.7		36
4/22/2020	249		195		62.7	49.3		52.7	
8/11/2020			193			52			
8/12/2020					62			49.3	
8/17/2020		1590							
8/18/2020	260			<25			30		35.3
8/19/2020									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/26/2020 2:51 PM View: Appendix III

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (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	36.7	64
9/19/2016		
9/20/2016	25.3	60
10/11/2016		
10/12/2016	<25	54.7
10/31/2016		
11/1/2016		
11/2/2016		
11/28/2016		
11/29/2016	<25	42
1/3/2017		
1/4/2017	27.3	56
1/23/2017	<25	50.7
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	28.7	126
5/10/2017		
6/27/2017	27.3	93.3
6/28/2017		
8/29/2017	30.7	84
8/30/2017		
6/4/2018		
6/5/2018	26	38.7
6/6/2018		
9/10/2018		
9/11/2018	<25	35.3
9/12/2018		
11/5/2018		
11/6/2018	26	40.7
11/7/2018		
3/26/2019	<25	36.7
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	27.3	40.7
4/20/2020		
4/21/2020	30.7	39.3
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	27.3	42
8/19/2020		

FIGURE E.

Trend Tests Summary Table - Prediction Limit Exceedances - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.03379	58	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.09736	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2054	65	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.08384	76	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.004258	55	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.02669	56	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-7	0.07166	73	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-8	0.08513	69	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.2458	96	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	22.41	70	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.629	103	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	9.488	74	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	8.242	106	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.3651	-82	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.821	98	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	24.53	97	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.8952	65	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-1.324	-91	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	3.624	88	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.01362	60	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02957	68	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01877	66	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.01227	61	58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.09045	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.1201	-89	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1802	-86	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.6553	-138	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.1633	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	36.2	64	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-10.66	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-2.116	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	23.63	89	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.7084	59	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	32.43	94	58	Yes	16	6.25	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	10.4	63	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	18	80	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	29.13	108	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	39.61	65	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-10.39	-64	-58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	38.88	84	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	12.82	72	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-10.92	-78	-58	Yes	16	50	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	36.94	84	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	96.66	105	58	Yes	16	0	n/a	n/a	0.01	NP

Trend Tests Summary Table - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**GC-AP-MW-1**	**0.03379**	**58**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-10	-0.01553	-8	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-11**	**-0.09736**	**-63**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-12	-0.02587	-19	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.01155	3	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-14**	**0.2054**	**65**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-15**	**0.08384**	**76**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-16	0.08622	42	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.05594	39	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.07468	-49	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-2	0.004402	33	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	-0.01779	-33	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	25	53	No	15	80	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-25**	**0.004258**	**55**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-26 (bg)	0	4	53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	15	53	No	15	86.67	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	4	53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	8	53	No	15	93.33	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-5**	**0.02669**	**56**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GC-AP-MW-6	-0.06738	-38	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GC-AP-MW-7**	**0.07166**	**73**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-8**	**0.08513**	**69**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GC-AP-MW-9**	**0.2458**	**96**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-1	-16.25	-52	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	1.635	28	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	1.265	24	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	3.679	52	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-14**	**22.41**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-15	3.119	54	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-16**	**9.629**	**103**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GC-AP-MW-17**	**9.488**	**74**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-18	-2.373	-28	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	7.225	55	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.687	-56	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-24 (bg)**	**8.242**	**106**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.6529	-46	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	-0.01875	-10	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.2107	-50	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-29 (bg)**	**-0.3651**	**-82**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-3	0.8938	8	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.07143	-24	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-5**	**7.821**	**98**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GC-AP-MW-6	8.05	45	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	2.85	11	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	1.813	16	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GC-AP-MW-9**	**24.53**	**97**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-1	-1.318	-23	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	-0.08483	-8	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.9964	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.3084	-11	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-13	-0.5873	-15	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.4882	-31	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-15	0.04169	14	58	No	16	0	n/a	n/a	0.01	NP

Trend Tests Summary Table - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-16	-0.1798	-9	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-0.8317	-16	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-18**	**0.8952**	**65**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-2	0.03522	9	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.06527	-47	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-24 (bg)	0.6567	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-25**	**-1.324**	**-91**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.1623	-37	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.0443	24	58	No	16	6.25	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.1213	-46	-58	No	16	12.5	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.3557	-57	-58	No	16	12.5	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	0	1	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.1981	17	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-0.899	-57	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	0.9068	21	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	3.38	26	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	-5.692	-29	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GC-AP-MW-9**	**3.624**	**88**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GC-AP-MW-10	-0.003112	-14	-58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-11	0.01327	52	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	**GC-AP-MW-12**	**0.01362**	**60**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**GC-AP-MW-14**	**0.02957**	**68**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**GC-AP-MW-16**	**0.01877**	**66**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GC-AP-MW-17	0.03133	44	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.004866	42	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-21	0.0008898	9	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0.00276	32	58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0.004644	39	58	No	16	56.25	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	-0.006055	-13	-38	No	12	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	14	53	No	15	93.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	5	53	No	15	86.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	27	58	No	16	87.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	15	58	No	16	93.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	-0.0001359	-4	-58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	**GC-AP-MW-6**	**0.01227**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	GC-AP-MW-9	0.00819	44	58	No	16	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-12	0.01155	23	68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	**GC-AP-MW-23 (bg)**	**-0.09045**	**-105**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	GC-AP-MW-24 (bg)	-0.04888	-63	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (bg)	-0.1672	-74	-74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	**GC-AP-MW-27 (bg)**	**-0.1201**	**-89**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	**GC-AP-MW-28 (bg)**	**-0.1802**	**-86**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	**GC-AP-MW-29 (bg)**	**-0.6553**	**-138**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (SU)	**GC-AP-MW-30 (bg)**	**-0.1633**	**-121**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GC-AP-MW-1**	**36.2**	**64**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-13	1.503	5	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	34.12	58	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-15**	**-10.66**	**-66**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-2	27.21	34	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-23 (bg)**	**-2.116**	**-89**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GC-AP-MW-24 (bg)**	**23.63**	**89**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-2.475	-52	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.2897	36	58	No	16	31.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-28 (bg)**	**0.7084**	**59**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	6	58	No	16	56.25	n/a	n/a	0.01	NP

Trend Tests Summary Table - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 2:29 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	-9	-58	No	16	87.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GC-AP-MW-5**	**32.43**	**94**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GC-AP-MW-6	2.587	12	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	17.43	17	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	17.76	37	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	49.51	39	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-10**	**10.4**	**63**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-11**	**18**	**80**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-12	2.345	6	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	6.706	23	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	91.39	49	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	-1.016	-5	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-16**	**29.13**	**108**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-17**	**39.61**	**65**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-18	-20.25	-46	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	24.04	50	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	-9.955	-35	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-23 (bg)**	**-10.39**	**-64**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-24 (bg)**	**38.88**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GC-AP-MW-25**	**12.82**	**72**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-26 (bg)	-6.112	-46	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0	10	58	No	16	31.25	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.836	-43	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-29 (bg)**	**-10.92**	**-78**	**-58**	**Yes**	**16**	**50**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-3	-1.392	-9	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	1.044	25	58	No	16	31.25	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-5**	**36.94**	**84**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GC-AP-MW-6	22.55	23	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	15.86	25	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	-15.7	-20	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GC-AP-MW-9**	**96.66**	**105**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**

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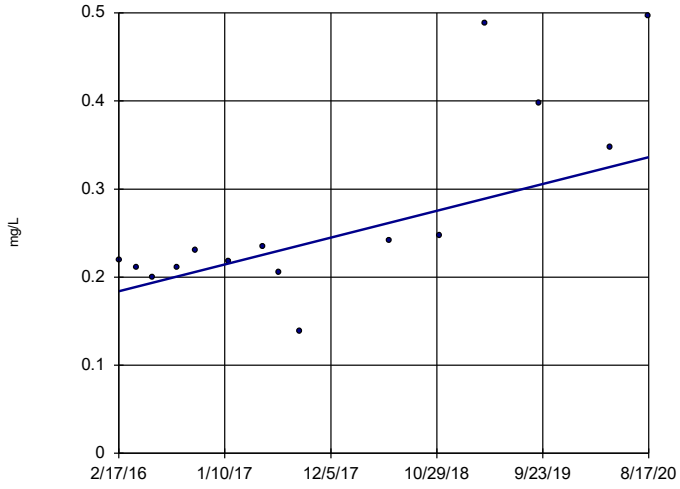
Sen's Slope Estimator

GC-AP-MW-1



n = 15

Slope = 0.03379 units per year.

Mann-Kendall statistic = 58 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2020 2:26 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

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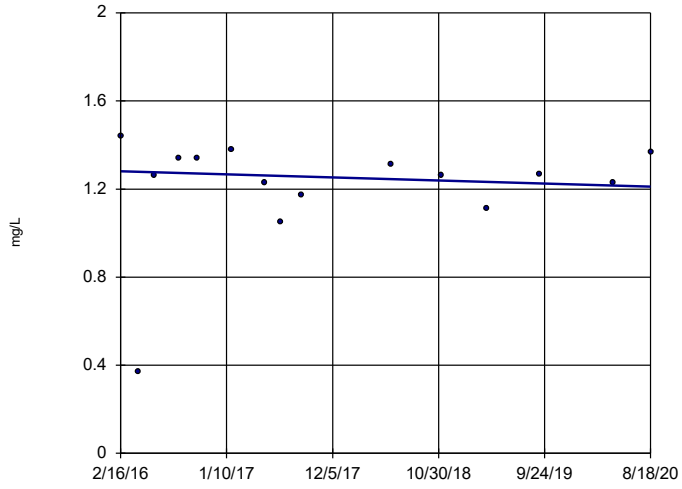
Sen's Slope Estimator

GC-AP-MW-10



n = 15

Slope = -0.01553 units per year.

Mann-Kendall statistic = -8 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2020 2:26 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

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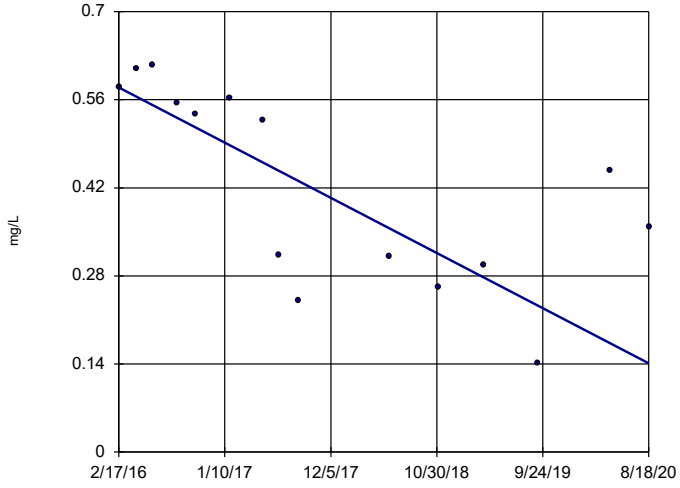
Sen's Slope Estimator

GC-AP-MW-11



n = 15

Slope = -0.09736 units per year.

Mann-Kendall statistic = -63 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2020 2:26 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

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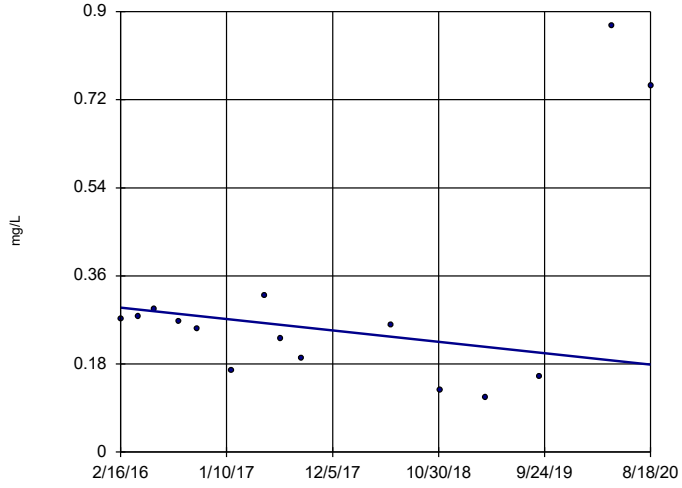
Sen's Slope Estimator

GC-AP-MW-12



n = 15

Slope = -0.02587 units per year.

Mann-Kendall statistic = -19 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

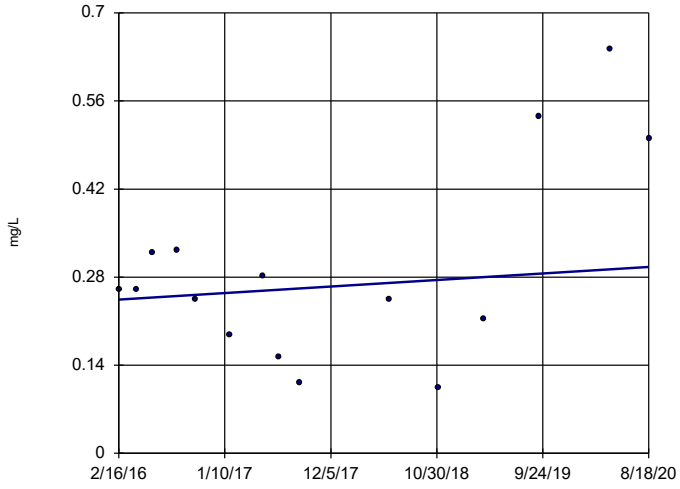
Constituent: Boron Analysis Run 10/26/2020 2:26 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 15

Slope = 0.01155 units per year.

Mann-Kendall statistic = 3 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

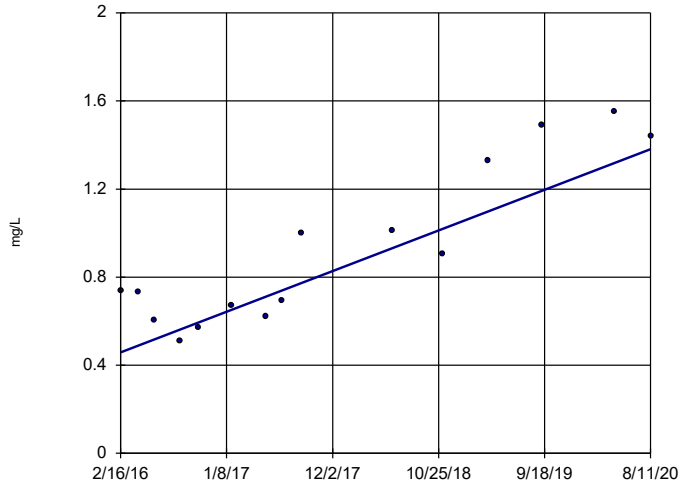
Constituent: Boron Analysis Run 10/26/2020 2:26 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 15

Slope = 0.2054 units per year.

Mann-Kendall statistic = 65 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

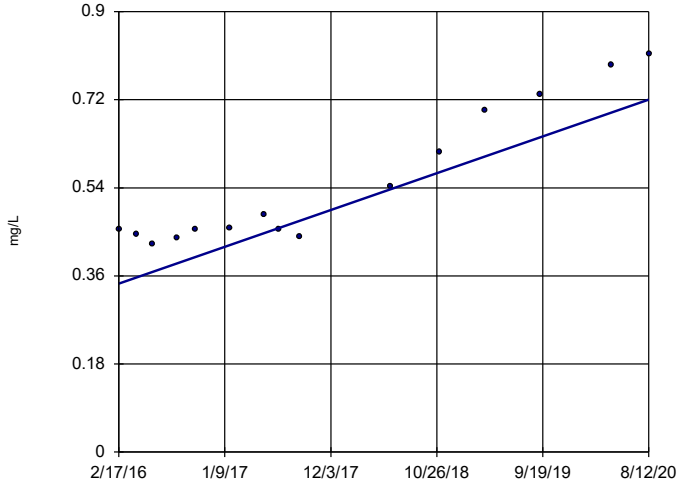
Constituent: Boron Analysis Run 10/26/2020 2:26 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 15

Slope = 0.08384 units per year.

Mann-Kendall statistic = 76 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

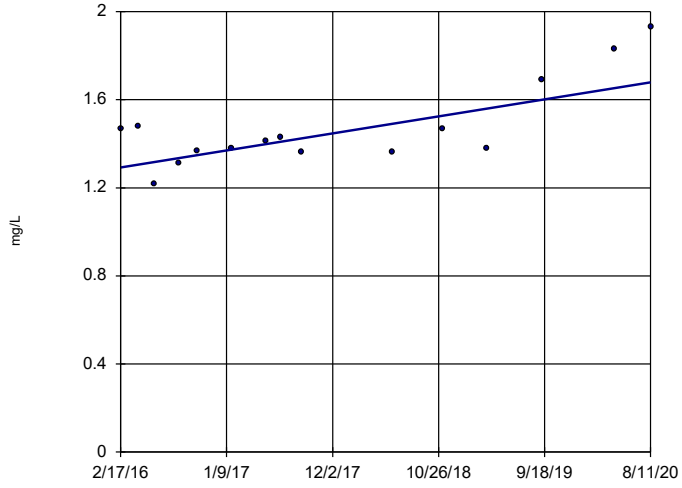
Constituent: Boron Analysis Run 10/26/2020 2:26 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 15

Slope = 0.08622 units per year.

Mann-Kendall statistic = 42 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

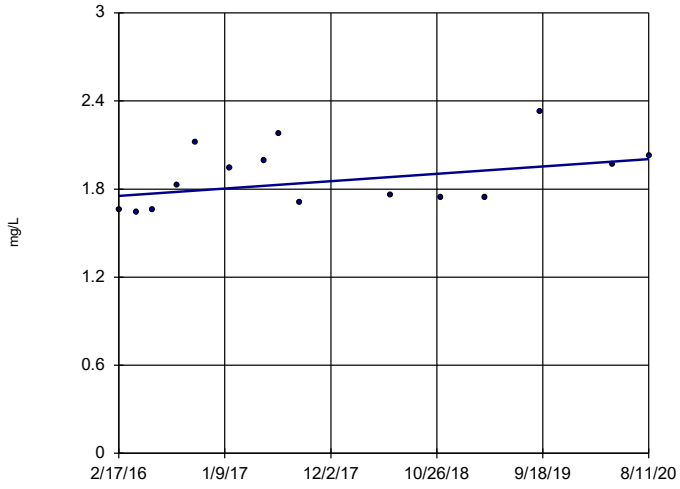
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 15

Slope = 0.05594 units per year.

Mann-Kendall statistic = 39 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

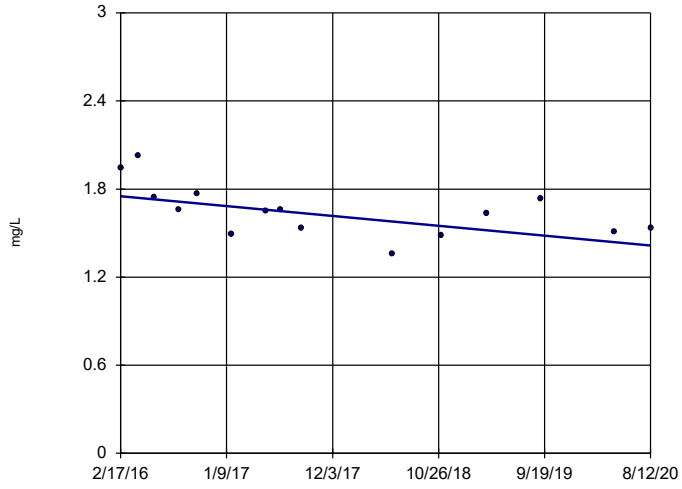
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 15

Slope = -0.07468 units per year.

Mann-Kendall statistic = -49 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

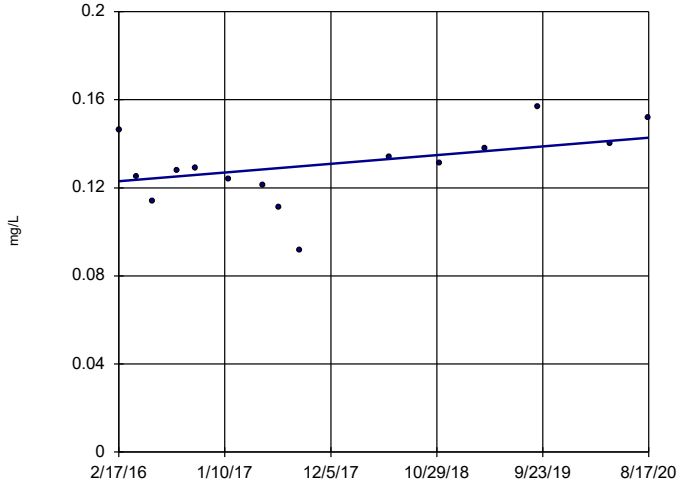
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 15

Slope = 0.004402 units per year.

Mann-Kendall statistic = 33 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

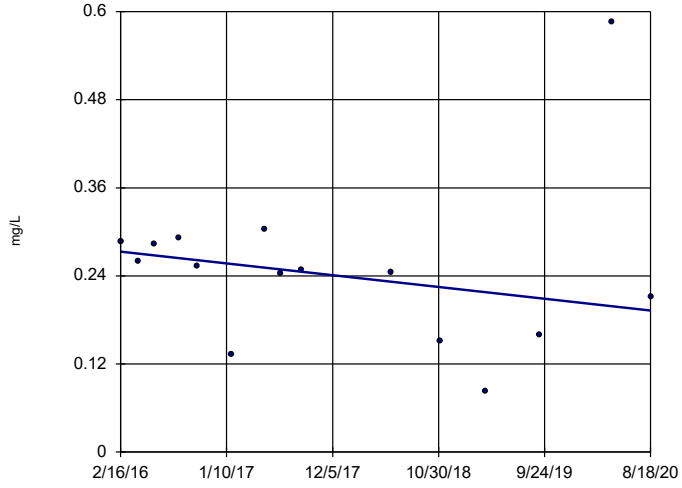
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 15

Slope = -0.01779 units per year.

Mann-Kendall statistic = -33 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

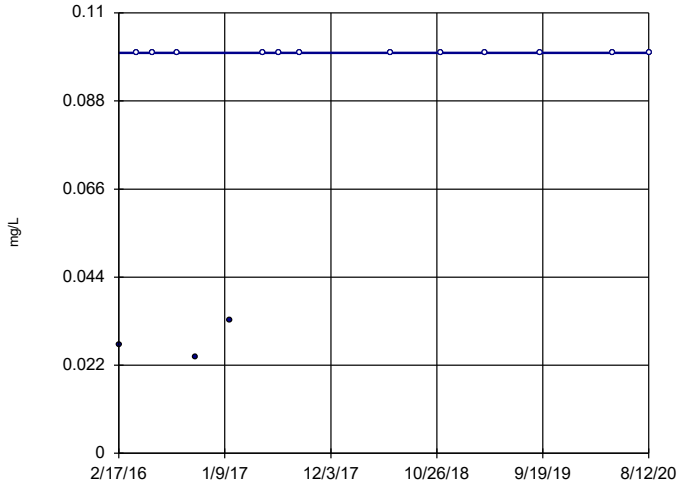
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 25
critical = 53

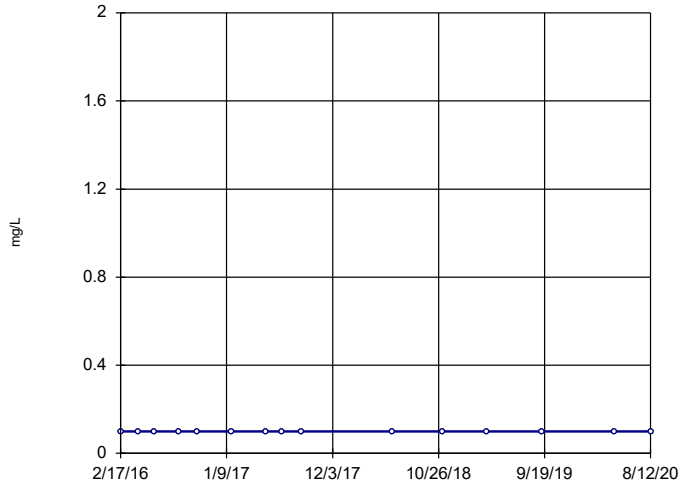
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 53

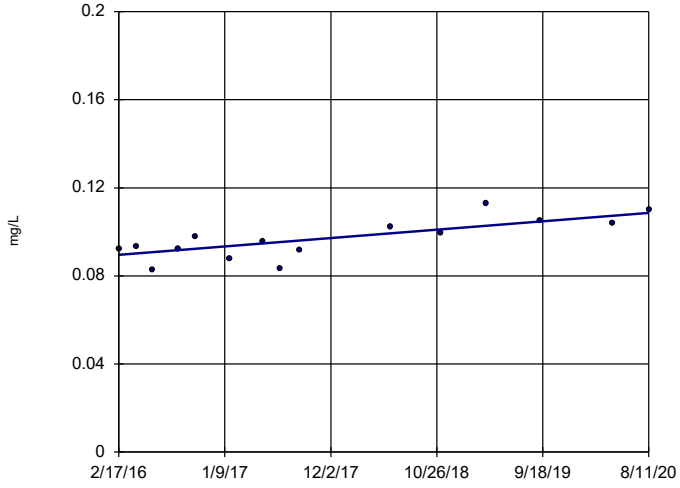
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-25



n = 15

Slope = 0.004258
units per year.

Mann-Kendall
statistic = 55
critical = 53

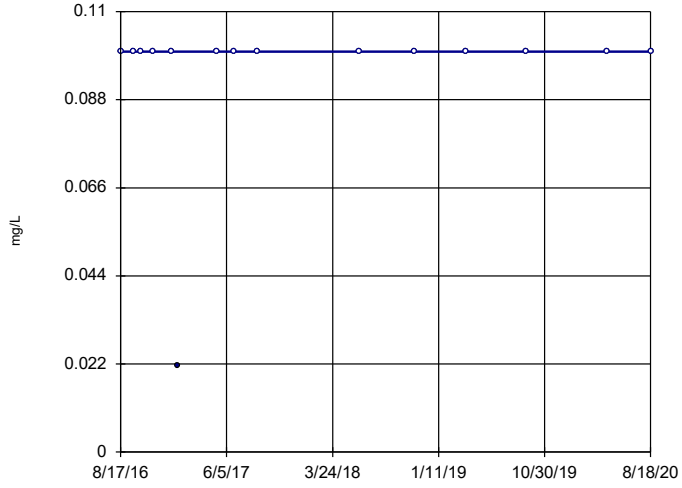
Increasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 4
critical = 53

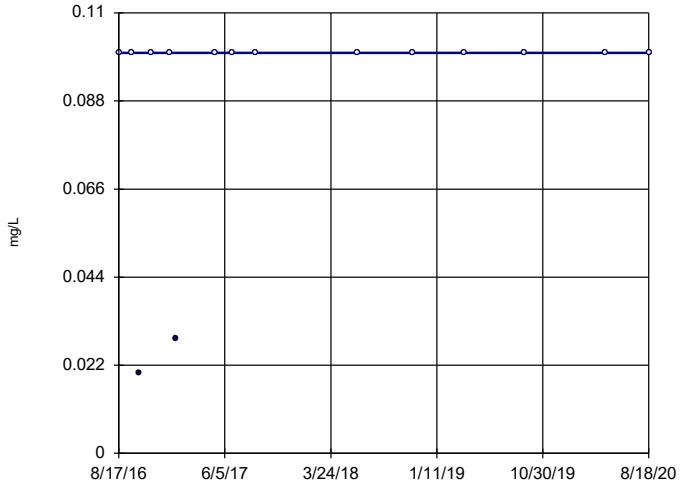
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 15
critical = 53

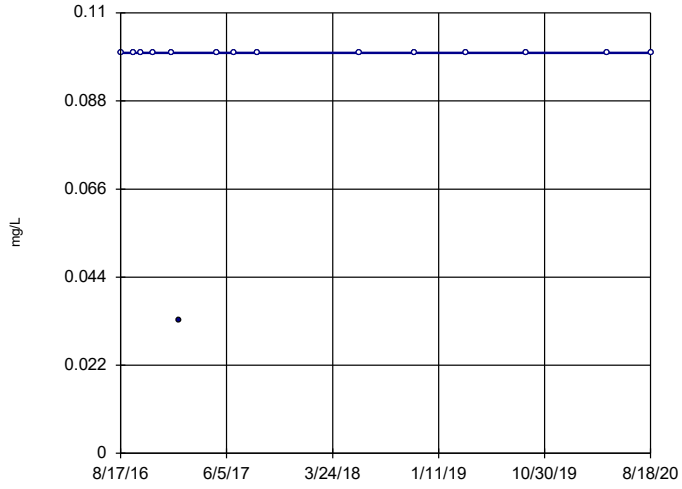
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 4
critical = 53

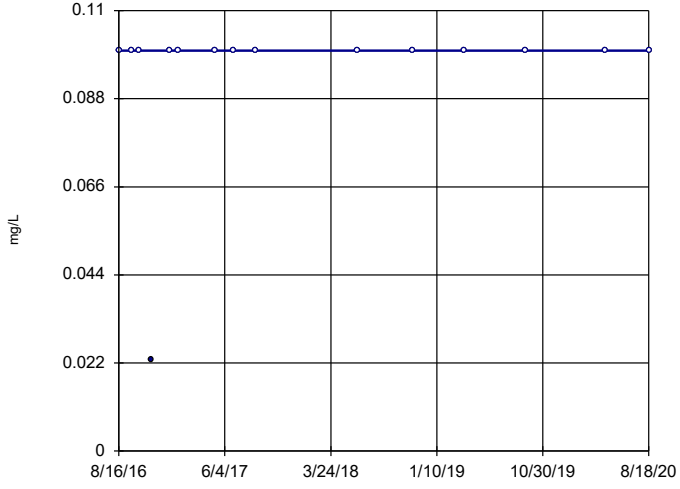
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 8
critical = 53

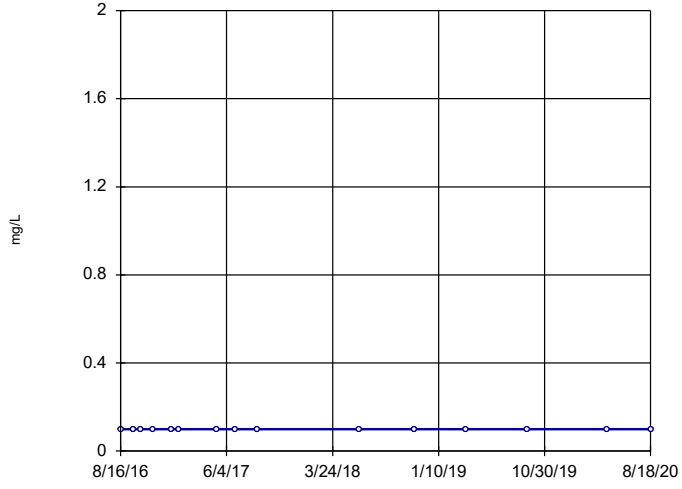
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 53

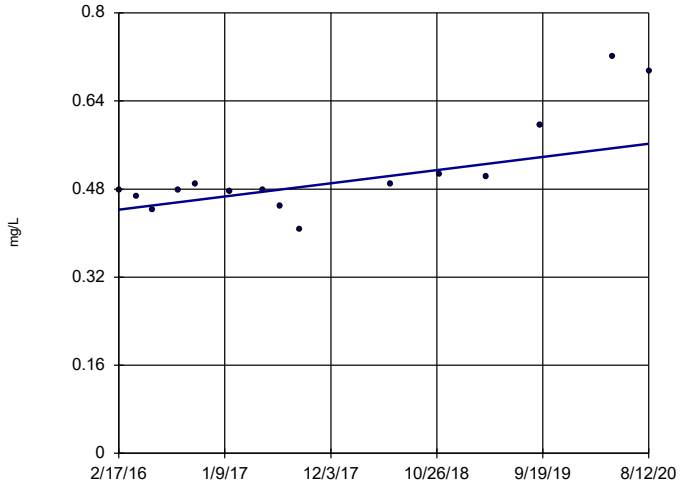
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 15

Slope = 0.02669 units per year.

Mann-Kendall statistic = 56 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

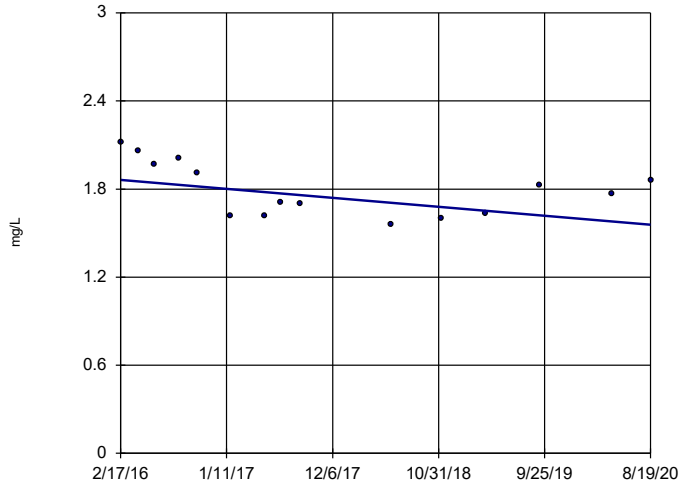
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 15

Slope = -0.06738 units per year.

Mann-Kendall statistic = -38 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

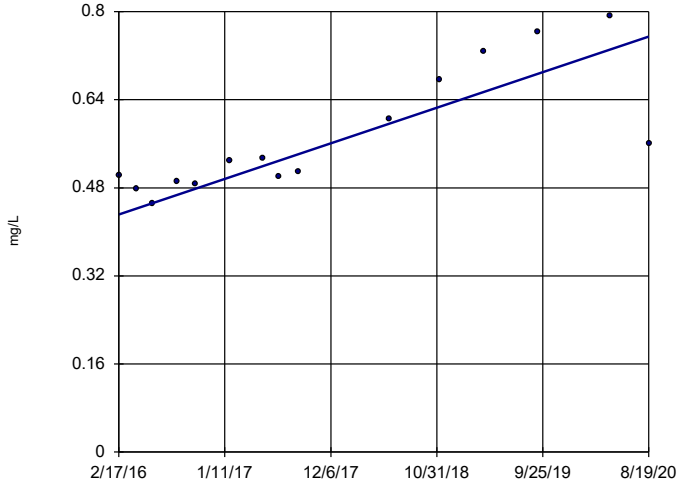
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 15

Slope = 0.07166 units per year.

Mann-Kendall statistic = 73 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

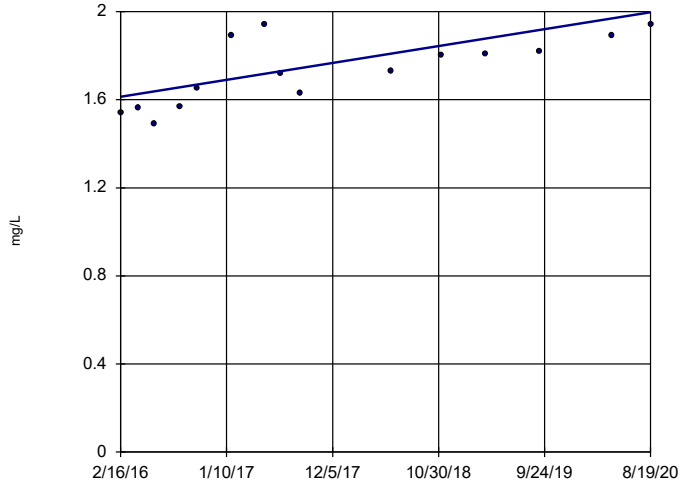
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 15

Slope = 0.08513 units per year.

Mann-Kendall statistic = 69 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

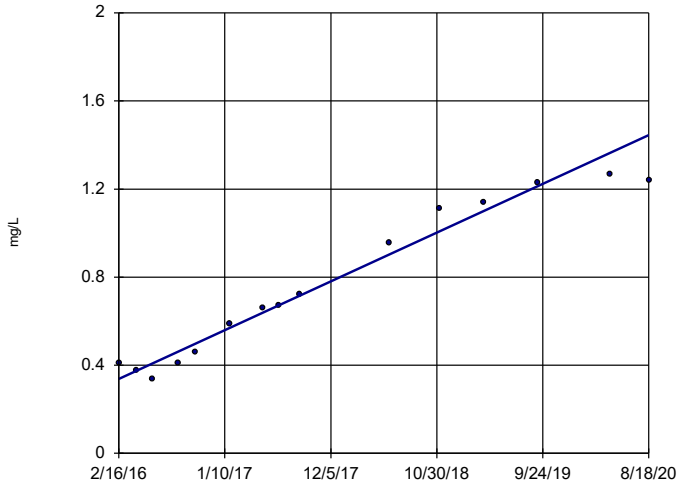
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 15

Slope = 0.2458 units per year.

Mann-Kendall statistic = 96 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

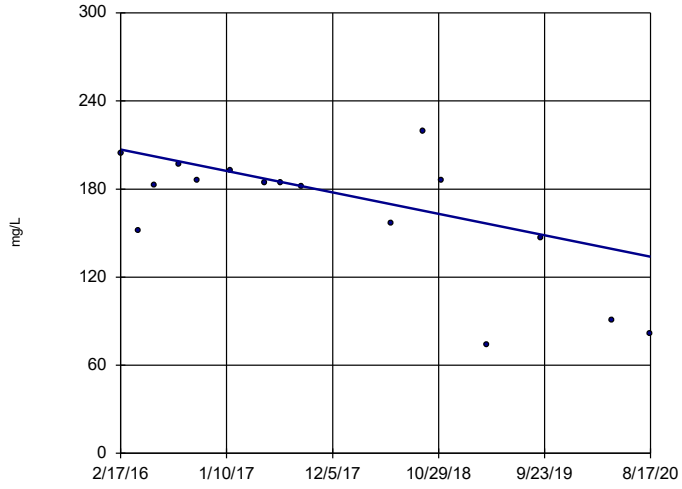
Constituent: Boron Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 16

Slope = -16.25 units per year.

Mann-Kendall statistic = -52 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

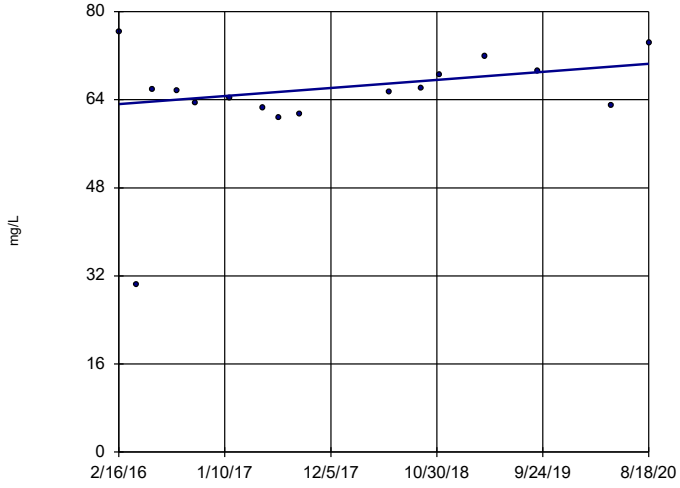
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 16

Slope = 1.635 units per year.

Mann-Kendall statistic = 28 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

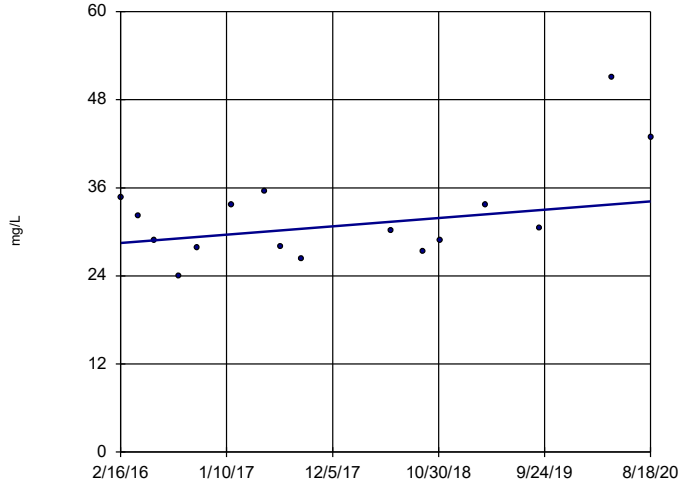
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 16

Slope = 1.265 units per year.

Mann-Kendall statistic = 24 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

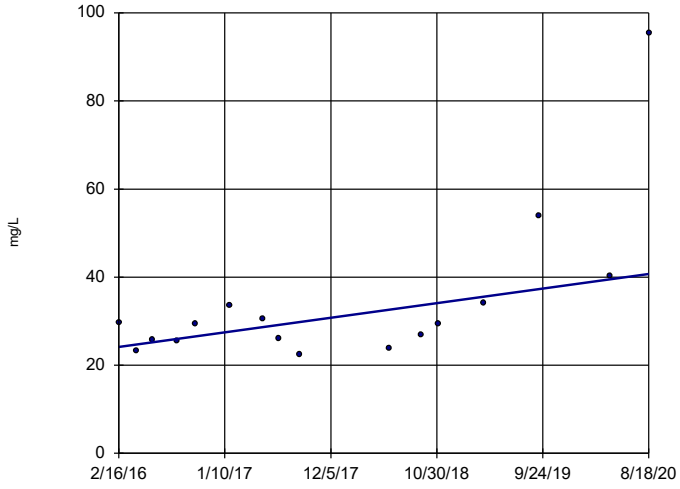
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 16

Slope = 3.679 units per year.

Mann-Kendall statistic = 52 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

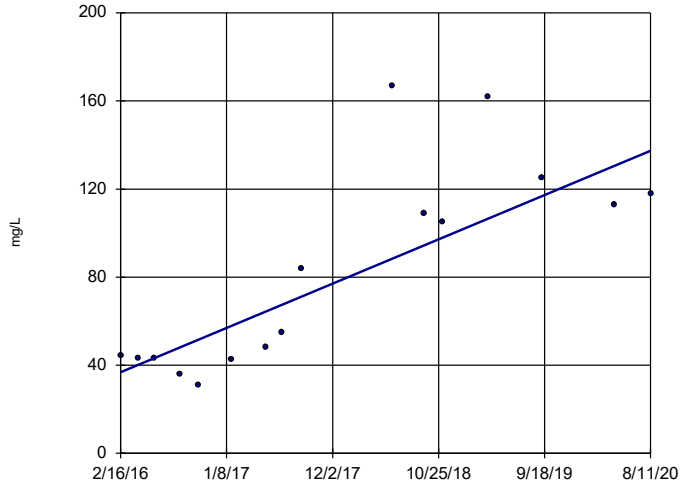
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 16

Slope = 22.41 units per year.

Mann-Kendall statistic = 70 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

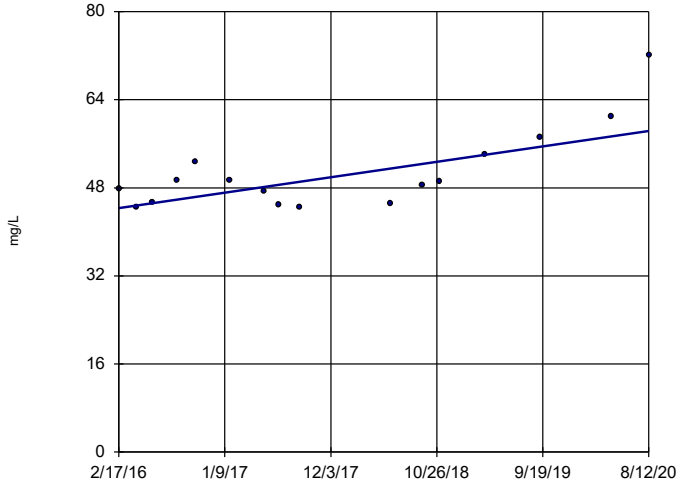
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 16

Slope = 3.119 units per year.

Mann-Kendall statistic = 54 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

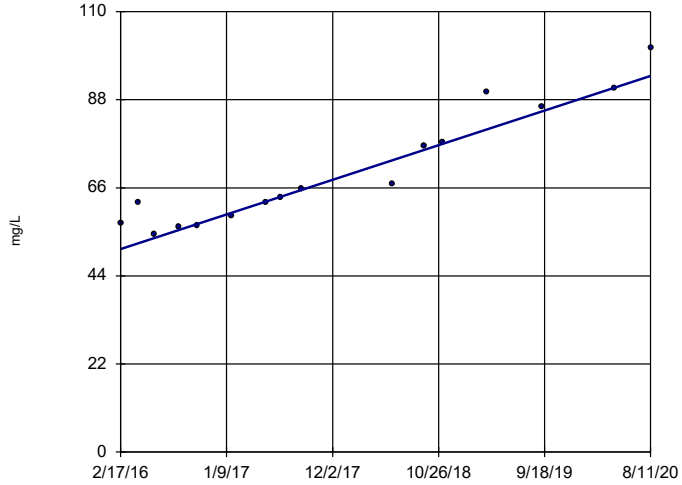
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 16

Slope = 9.629 units per year.

Mann-Kendall statistic = 103 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

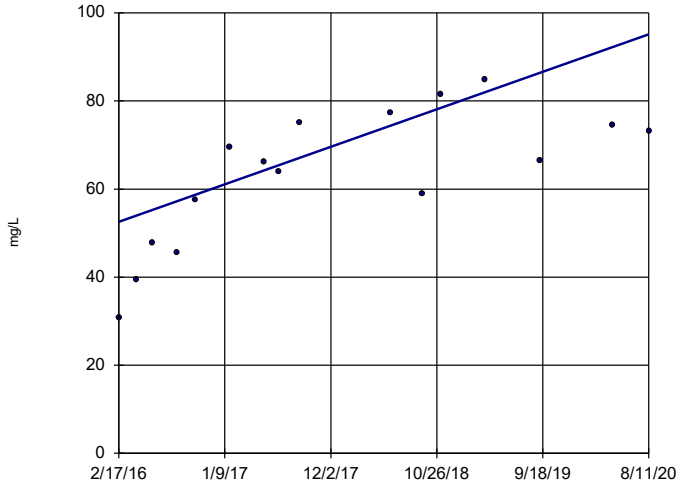
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 16

Slope = 9.488 units per year.

Mann-Kendall statistic = 74 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

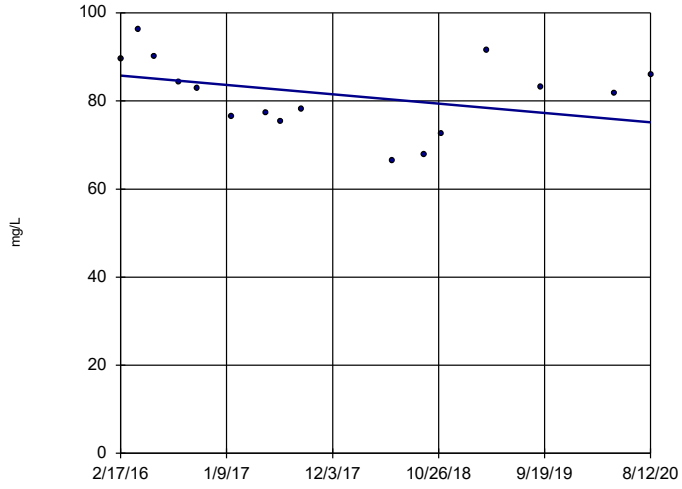
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 16

Slope = -2.373 units per year.

Mann-Kendall statistic = -28 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

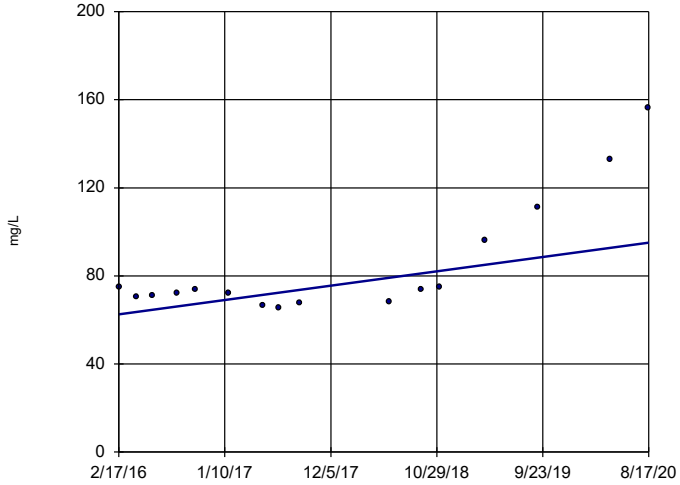
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 16

Slope = 7.225 units per year.

Mann-Kendall statistic = 55 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

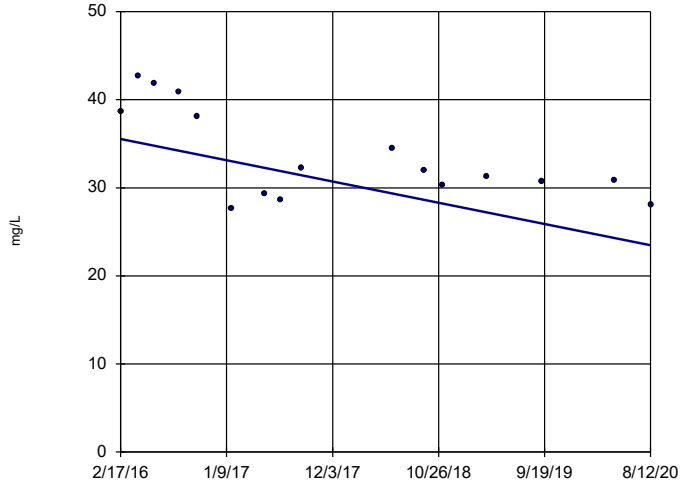
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 16

Slope = -2.687 units per year.

Mann-Kendall statistic = -56 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

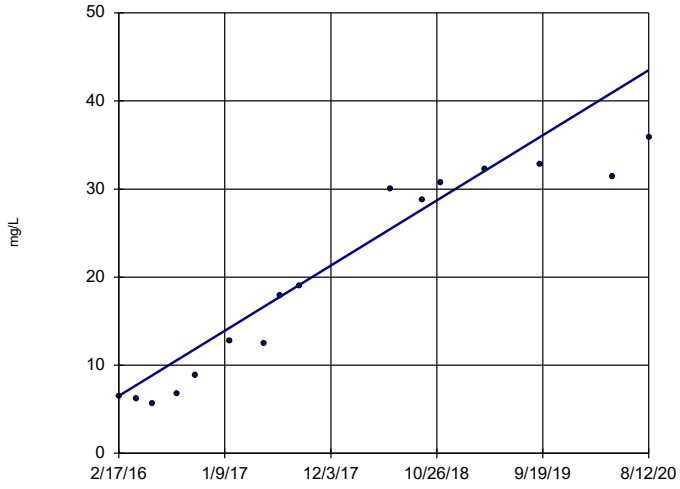
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 16

Slope = 8.242 units per year.

Mann-Kendall statistic = 106 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

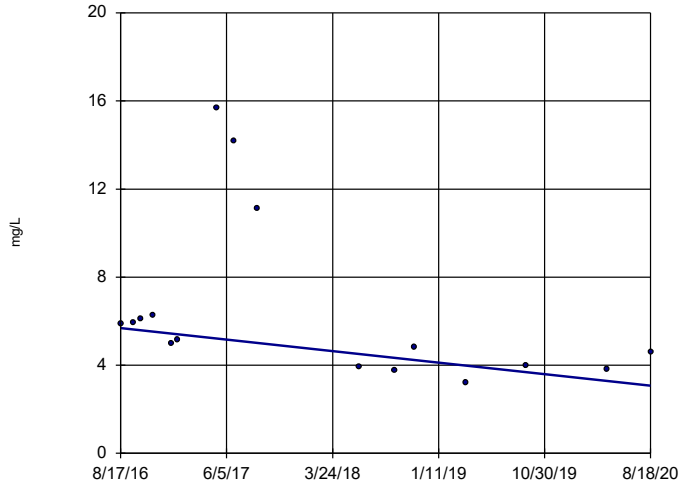
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 16

Slope = -0.6529 units per year.

Mann-Kendall statistic = -46 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

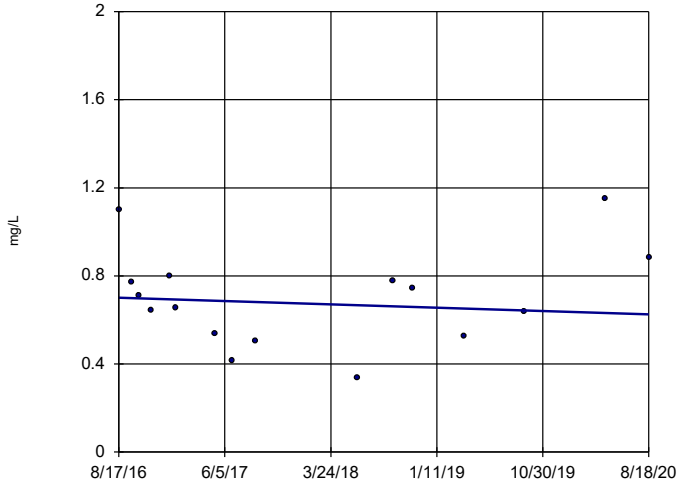
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 16

Slope = -0.01875 units per year.

Mann-Kendall statistic = -10 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

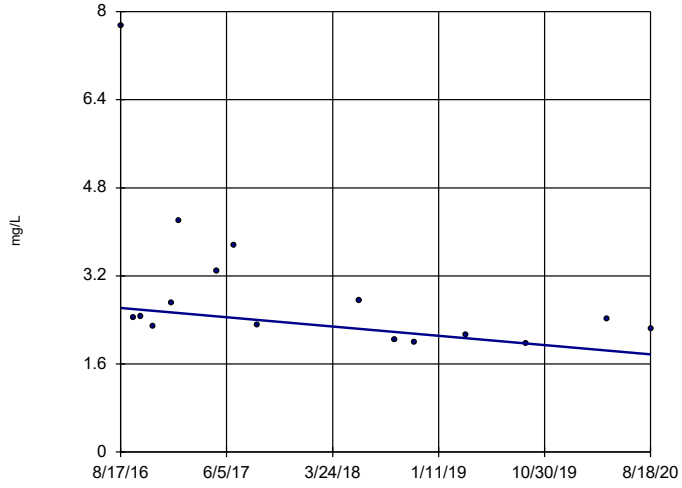
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 16

Slope = -0.2107 units per year.

Mann-Kendall statistic = -50 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

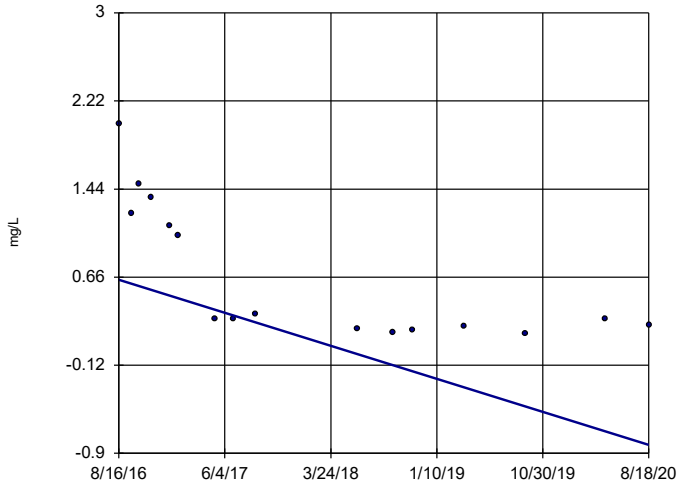
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 16

Slope = -0.3651 units per year.

Mann-Kendall statistic = -82 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

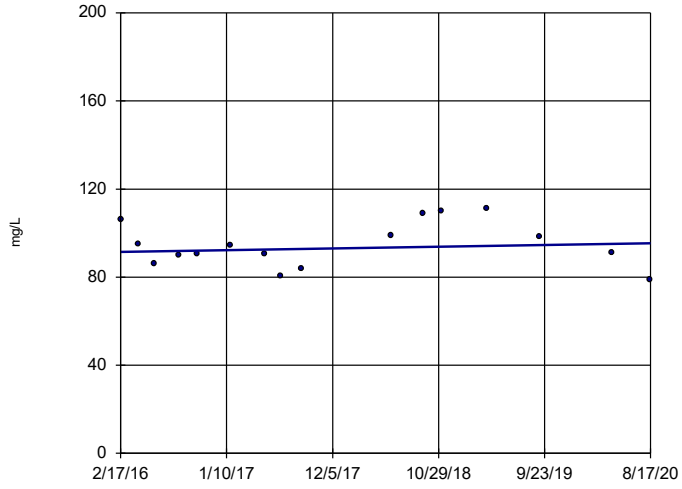
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-3



n = 16

Slope = 0.8938 units per year.

Mann-Kendall statistic = 8 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

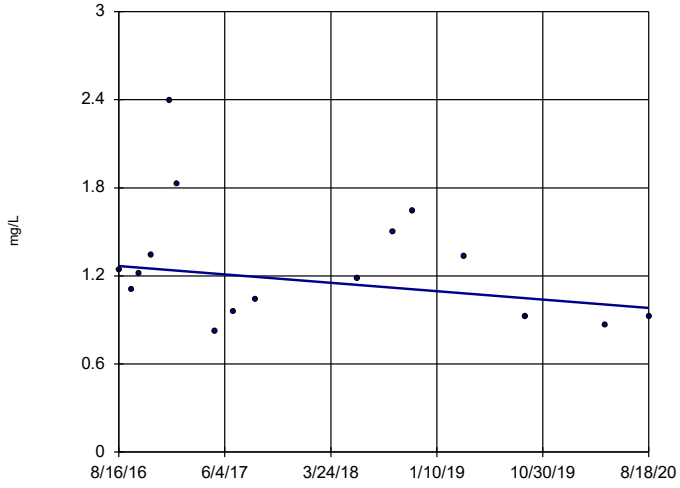
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 16

Slope = -0.07143 units per year.

Mann-Kendall statistic = -24 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

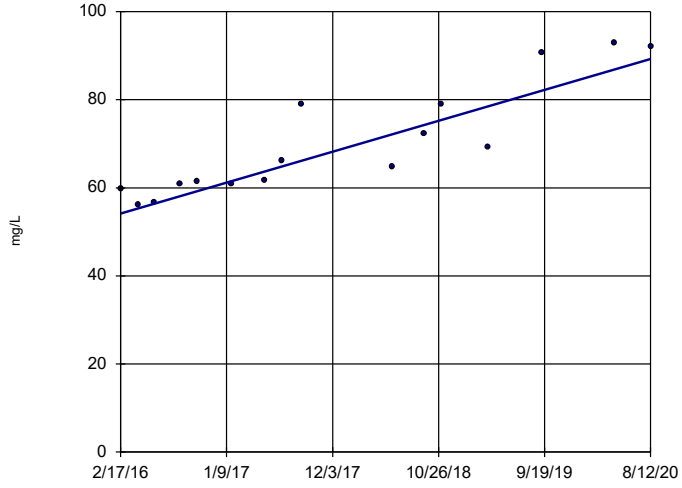
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 16

Slope = 7.821 units per year.

Mann-Kendall statistic = 98 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

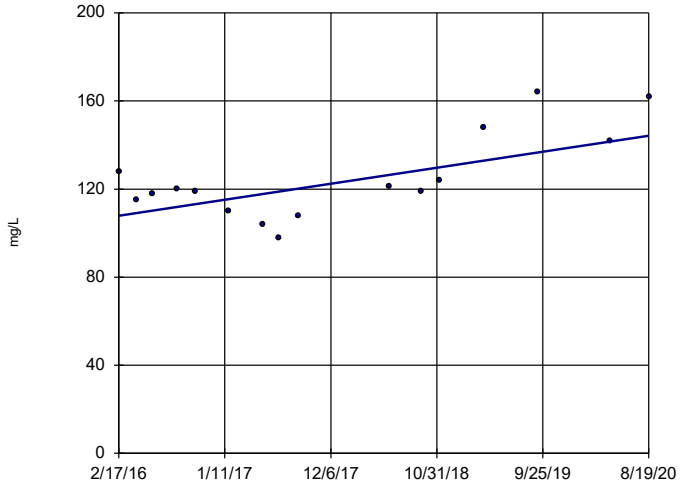
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 16

Slope = 8.05 units per year.

Mann-Kendall statistic = 45 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

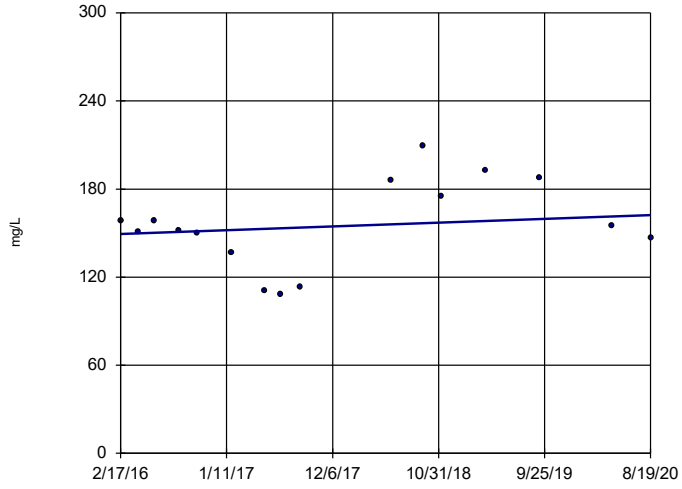
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 16

Slope = 2.85 units per year.

Mann-Kendall statistic = 11 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

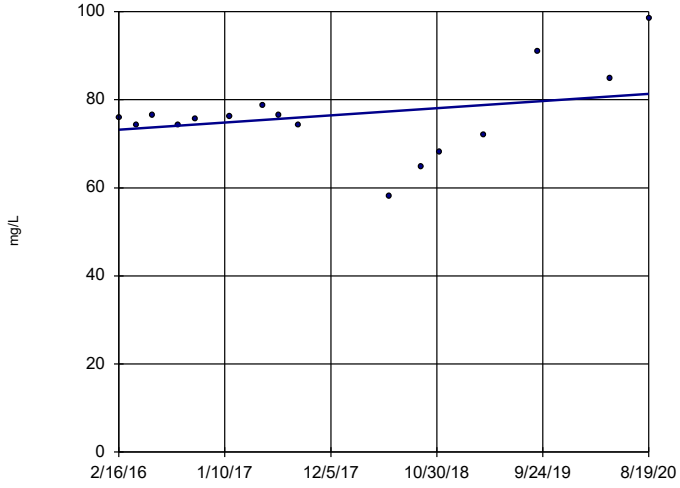
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 16

Slope = 1.813 units per year.

Mann-Kendall statistic = 16 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

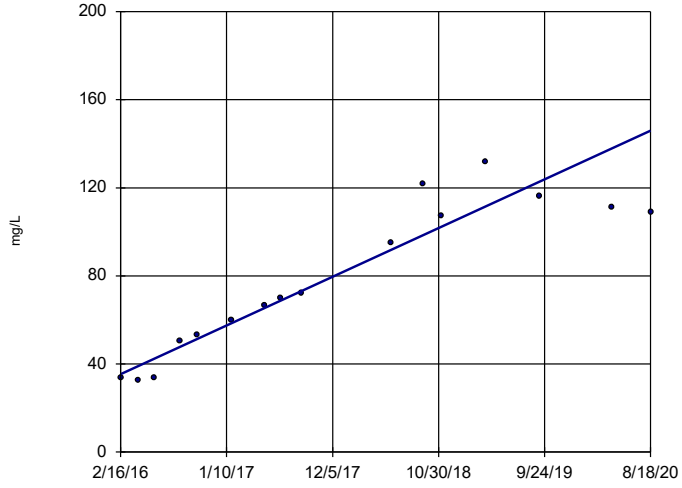
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 16

Slope = 24.53 units per year.

Mann-Kendall statistic = 97 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

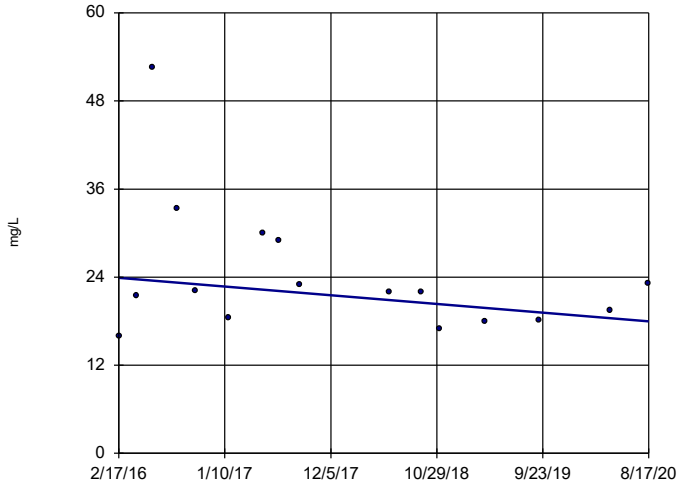
Constituent: Calcium Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 16

Slope = -1.318 units per year.

Mann-Kendall statistic = -23 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

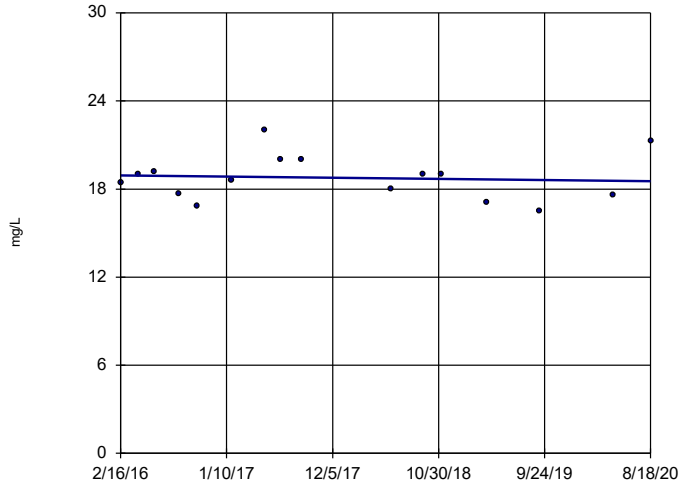
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 16

Slope = -0.08483 units per year.

Mann-Kendall statistic = -8 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

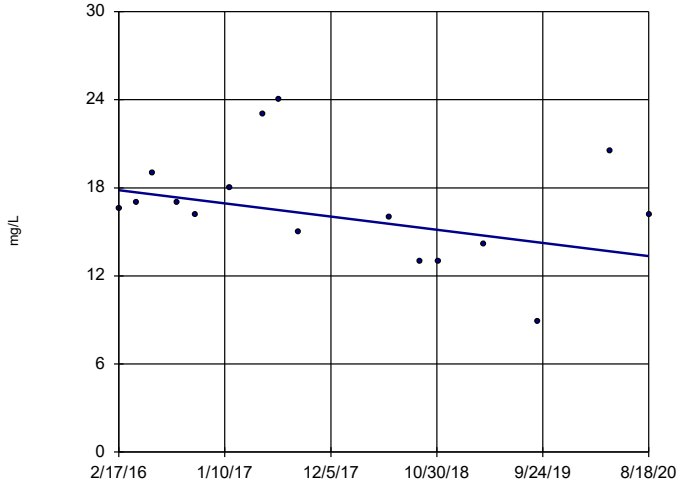
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-11



n = 16

Slope = -0.9964 units per year.

Mann-Kendall statistic = -33 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

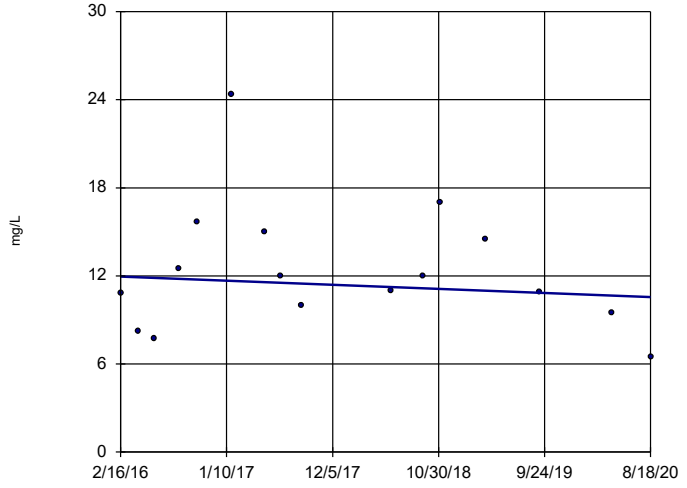
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 16

Slope = -0.3084 units per year.

Mann-Kendall statistic = -11 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

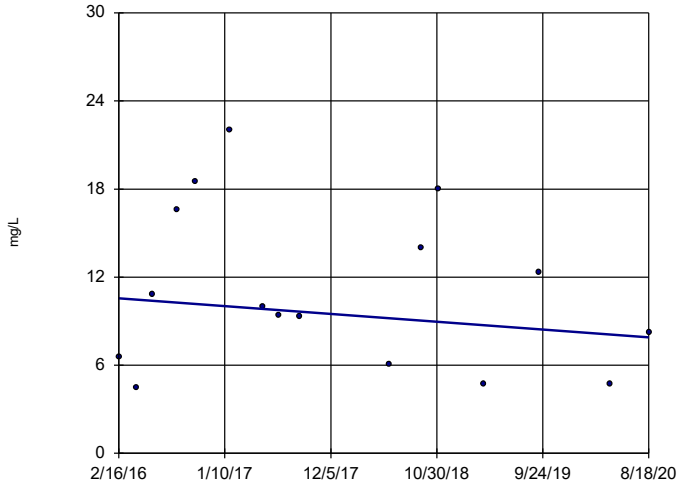
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 16

Slope = -0.5873 units per year.

Mann-Kendall statistic = -15 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

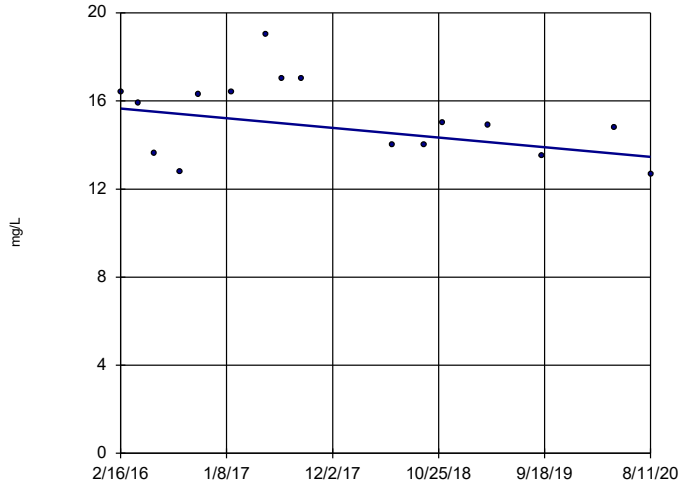
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 16

Slope = -0.4882 units per year.

Mann-Kendall statistic = -31 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

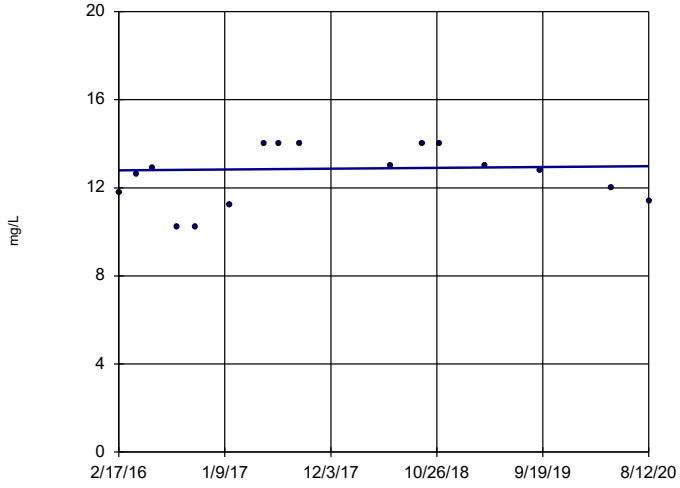
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 16

Slope = 0.04169 units per year.

Mann-Kendall statistic = 14 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

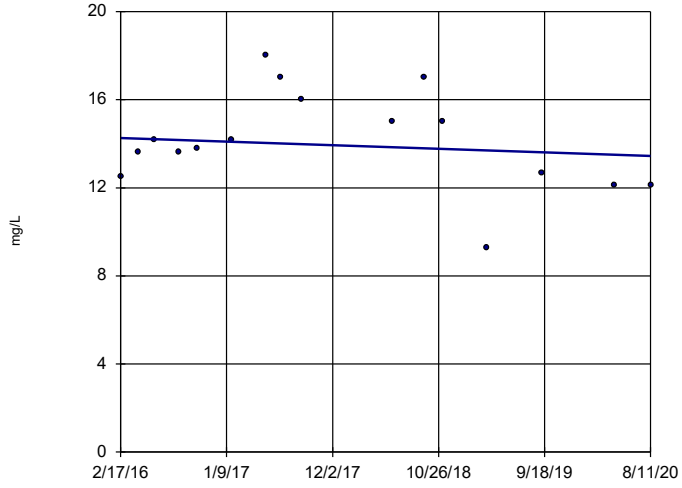
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 16

Slope = -0.1798 units per year.

Mann-Kendall statistic = -9 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

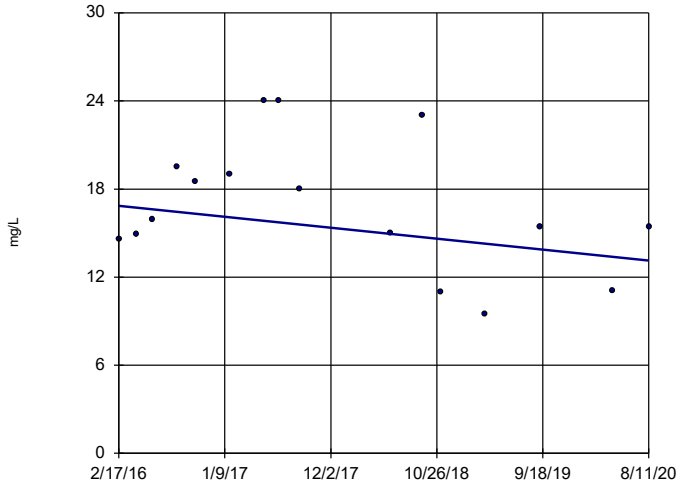
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 16

Slope = -0.8317 units per year.

Mann-Kendall statistic = -16 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

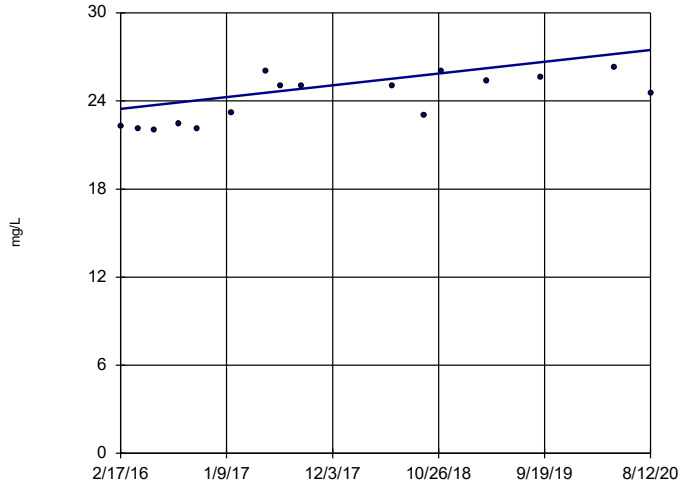
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 16

Slope = 0.8952 units per year.

Mann-Kendall statistic = 65 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

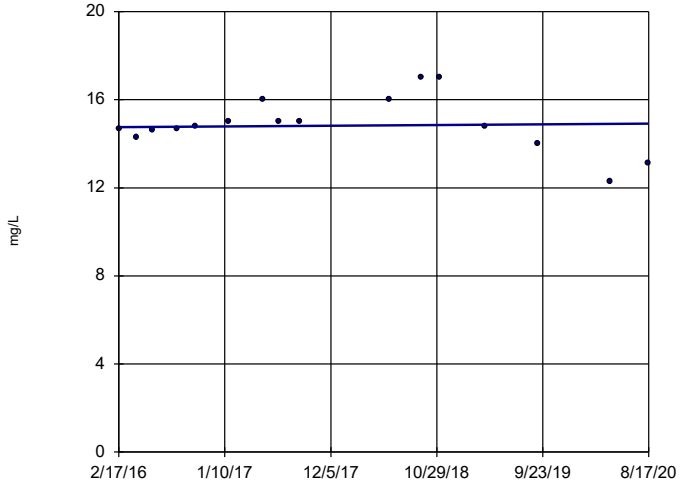
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 16

Slope = 0.03522 units per year.

Mann-Kendall statistic = 9 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

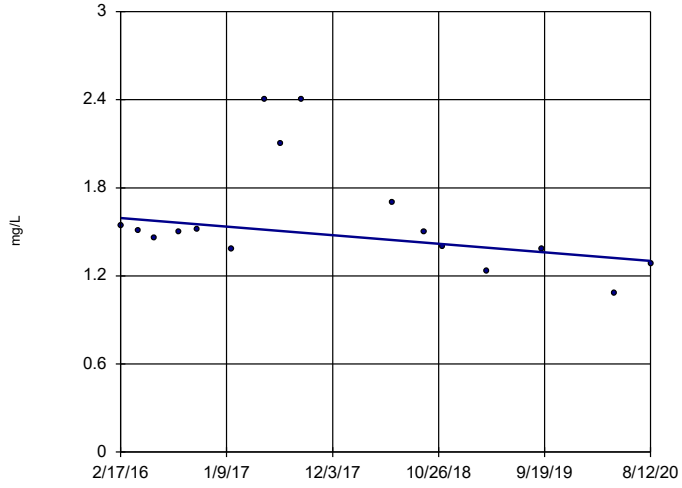
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 16

Slope = -0.06527 units per year.

Mann-Kendall statistic = -47 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

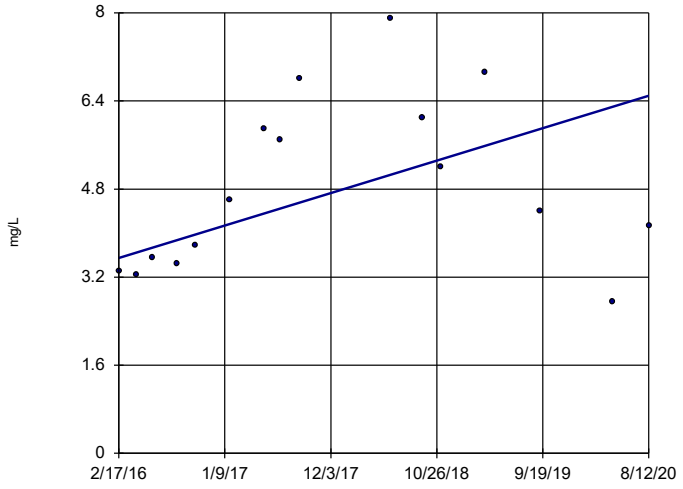
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 16

Slope = 0.6567 units per year.

Mann-Kendall statistic = 36 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

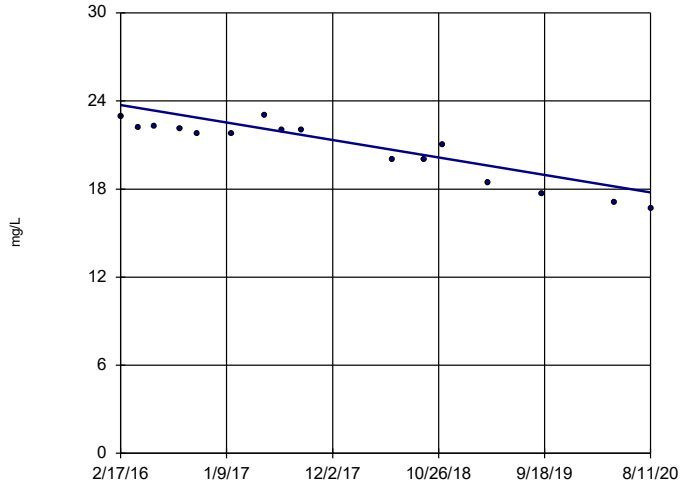
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-25



n = 16

Slope = -1.324 units per year.

Mann-Kendall statistic = -91 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

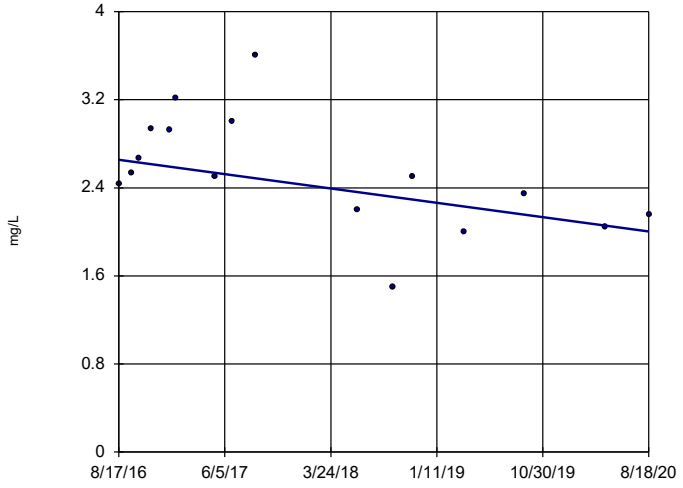
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 16

Slope = -0.1623 units per year.

Mann-Kendall statistic = -37 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

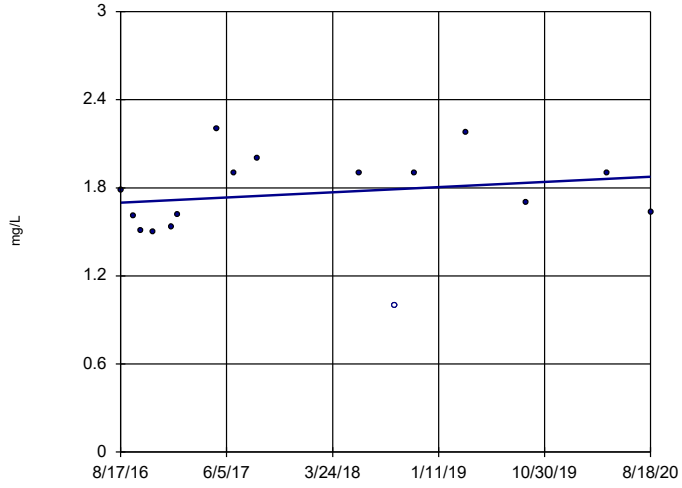
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 16

Slope = 0.0443 units per year.

Mann-Kendall statistic = 24 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

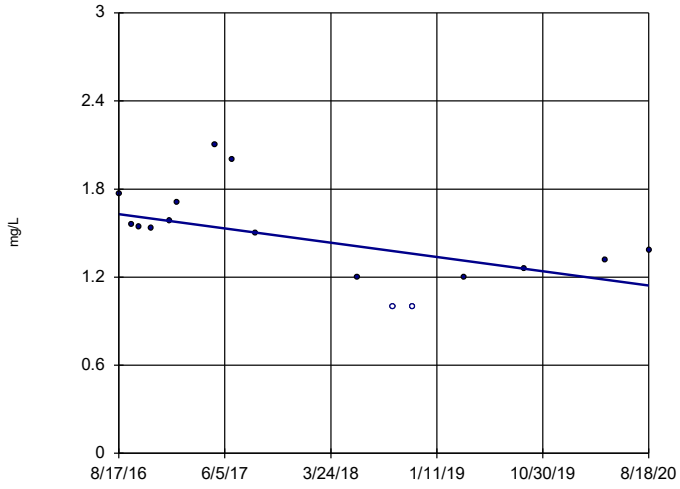
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 16

Slope = -0.1213 units per year.

Mann-Kendall statistic = -46 critical = -58

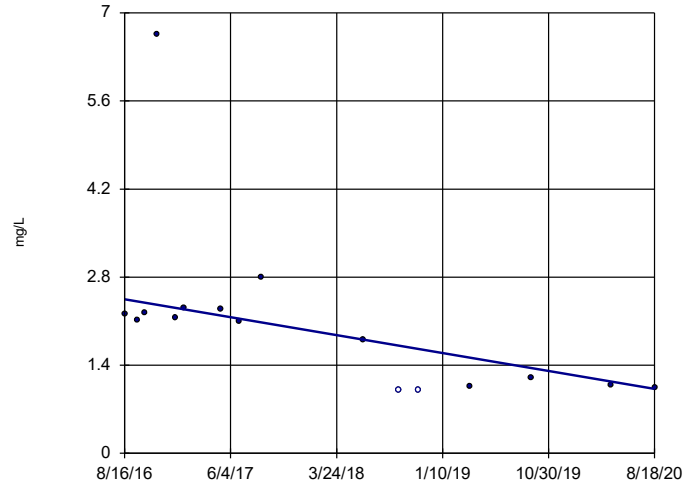
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 16

Slope = -0.3557 units per year.

Mann-Kendall statistic = -57 critical = -58

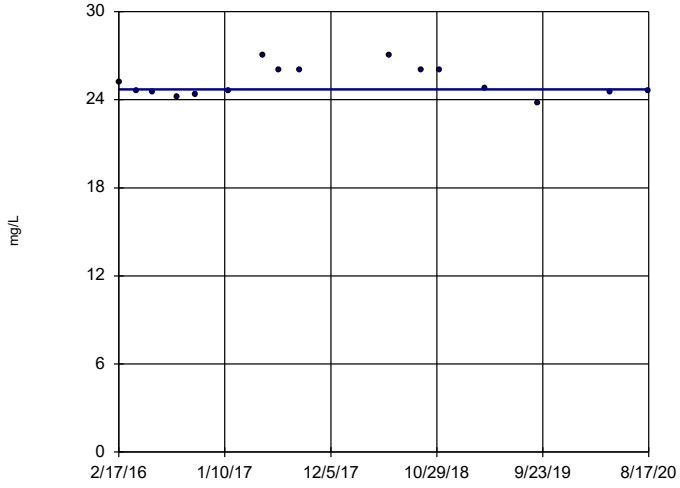
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-3



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 58

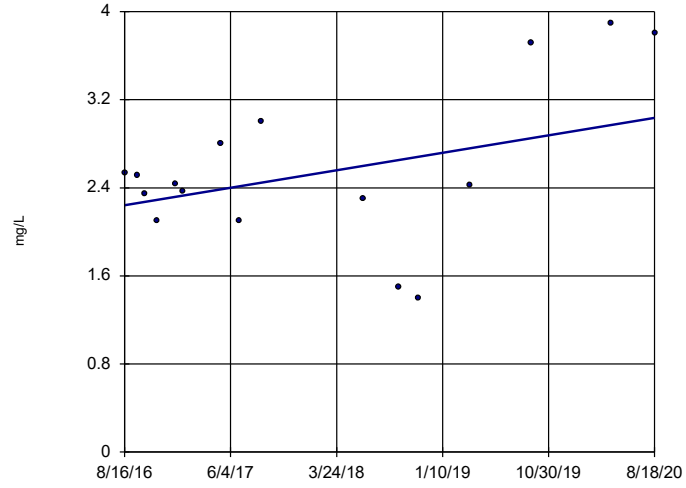
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 16

Slope = 0.1981 units per year.

Mann-Kendall statistic = 17 critical = 58

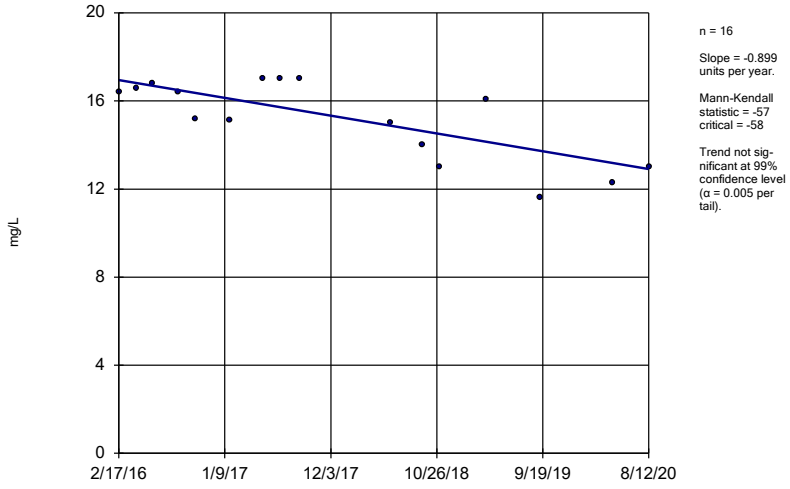
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 16

Slope = -0.899 units per year.

Mann-Kendall statistic = -57 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

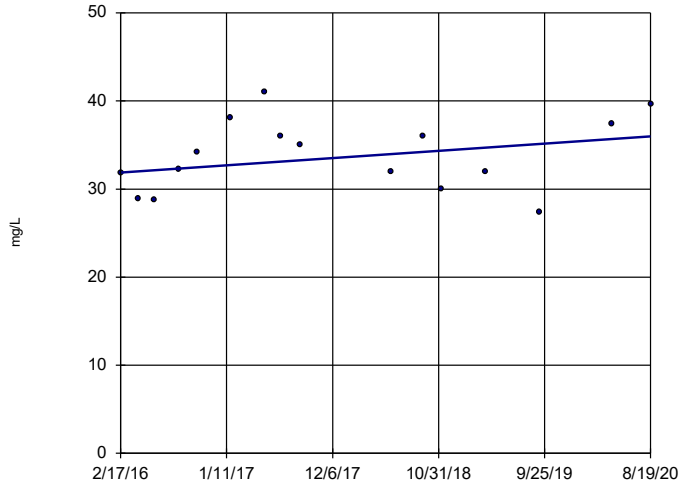
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 16

Slope = 0.9068 units per year.

Mann-Kendall statistic = 21 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

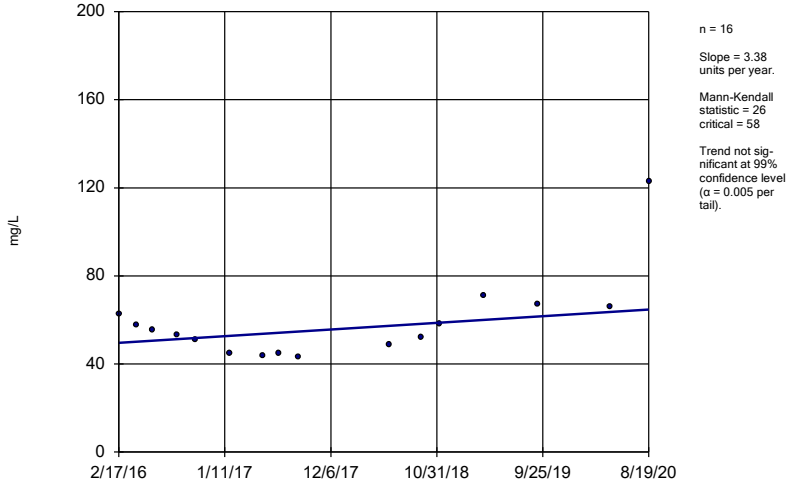
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 16

Slope = 3.38 units per year.

Mann-Kendall statistic = 26 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

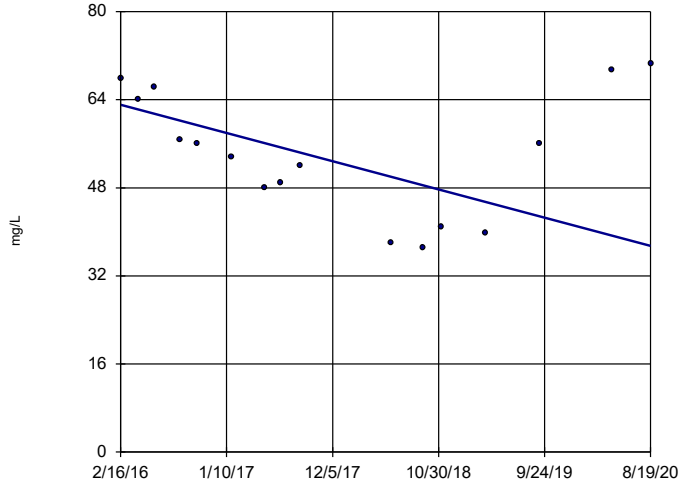
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 16

Slope = -5.692 units per year.

Mann-Kendall statistic = -29 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

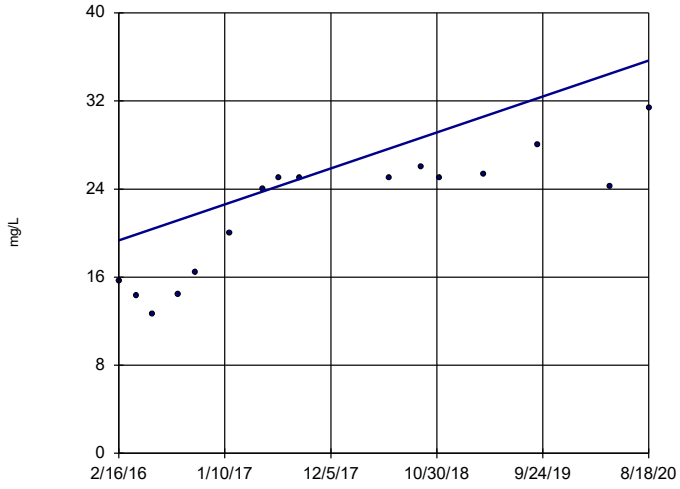
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 16

Slope = 3.624 units per year.

Mann-Kendall statistic = 88 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

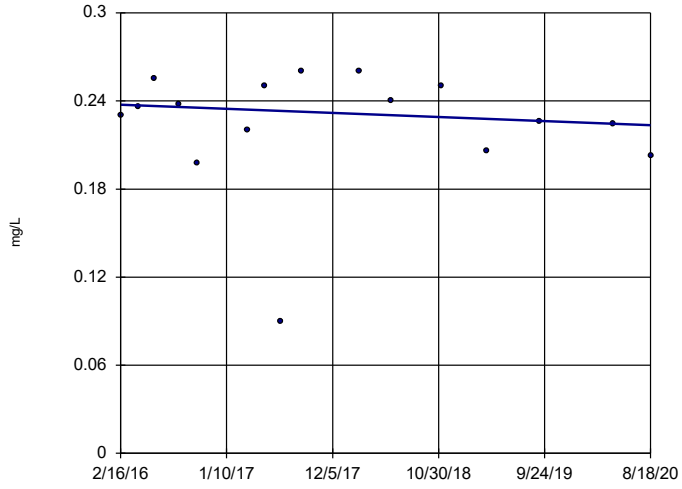
Constituent: Chloride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 16

Slope = -0.003112 units per year.

Mann-Kendall statistic = -14 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

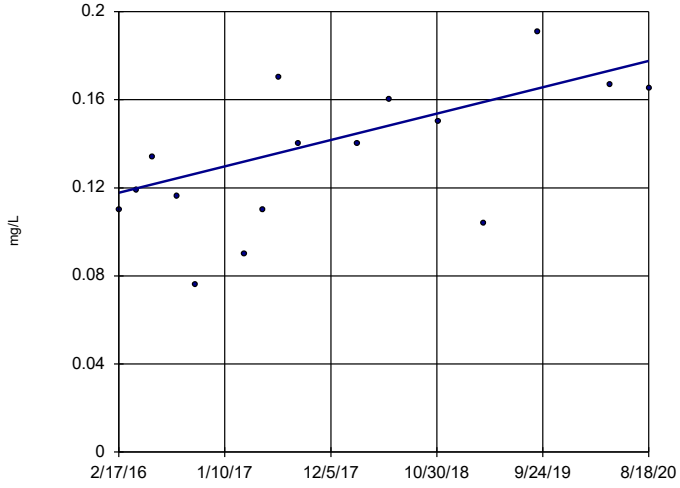
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-11



n = 16

Slope = 0.01327 units per year.

Mann-Kendall statistic = 52 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

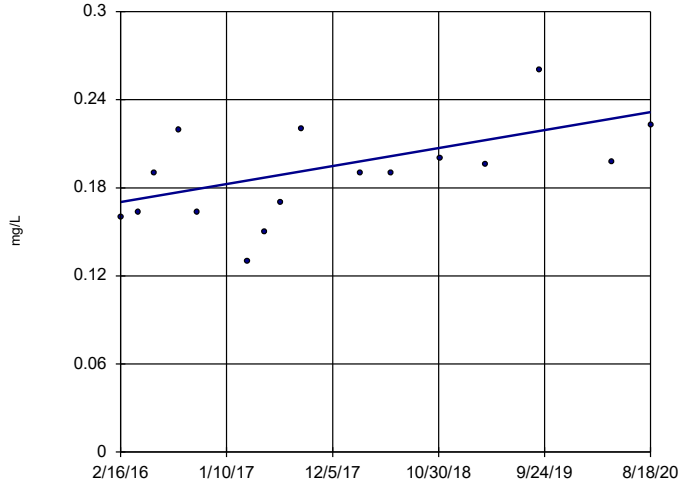
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 16

Slope = 0.01362 units per year.

Mann-Kendall statistic = 60 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

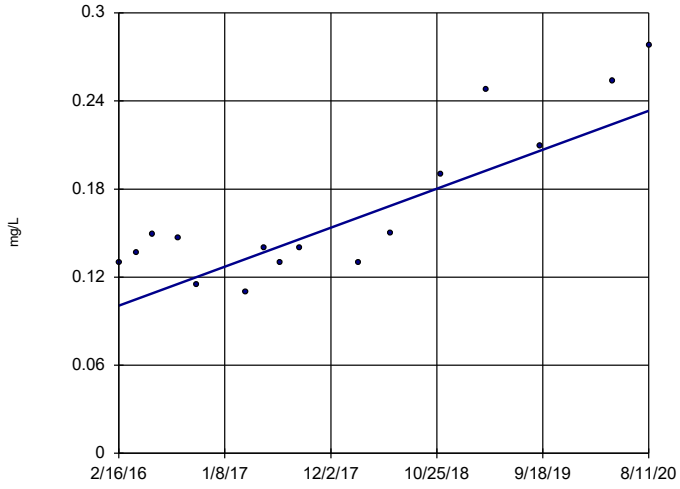
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 16

Slope = 0.02957 units per year.

Mann-Kendall statistic = 68 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

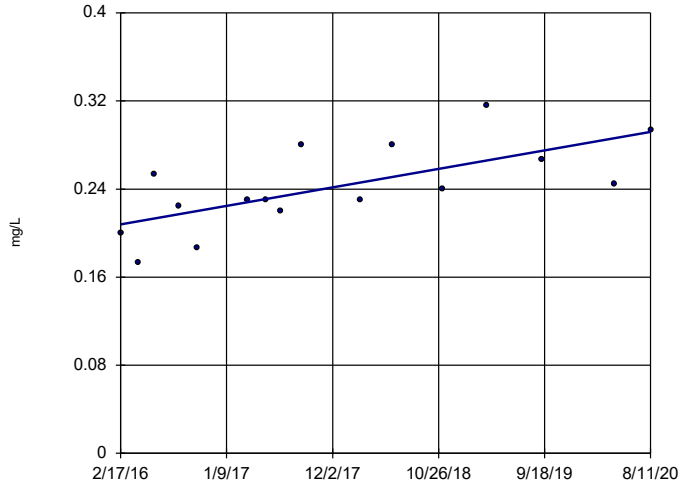
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 16

Slope = 0.01877 units per year.

Mann-Kendall statistic = 66 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

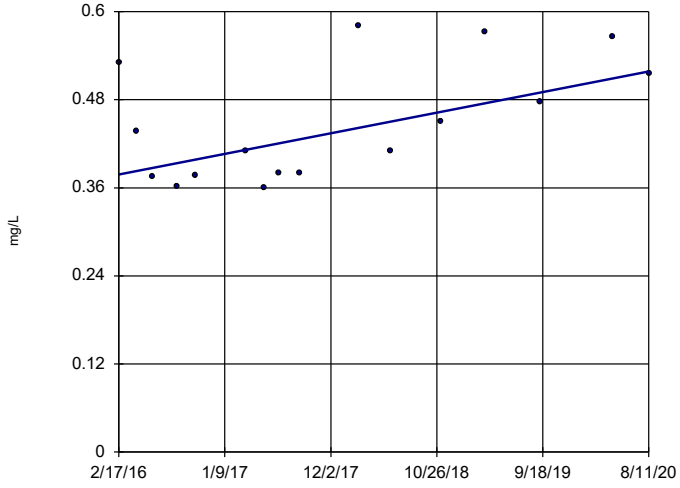
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 16

Slope = 0.03133 units per year.

Mann-Kendall statistic = 44 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

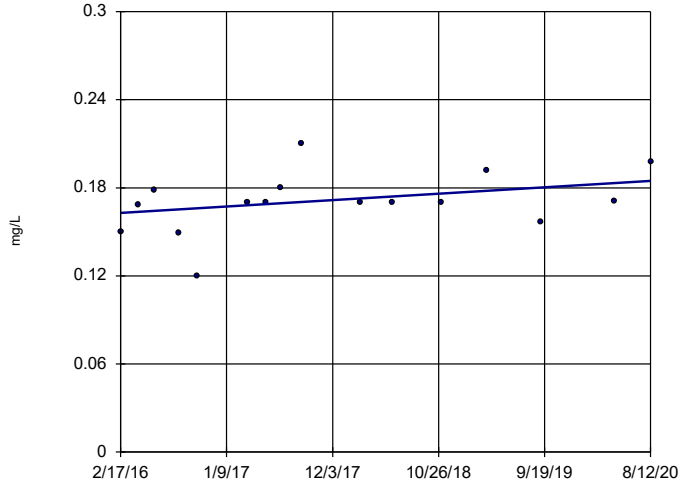
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 16

Slope = 0.004866 units per year.

Mann-Kendall statistic = 42 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

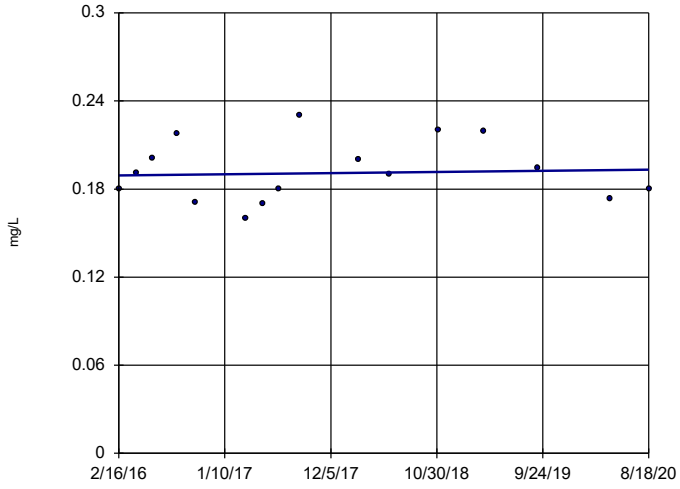
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 16

Slope = 0.0008898 units per year.

Mann-Kendall statistic = 9 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

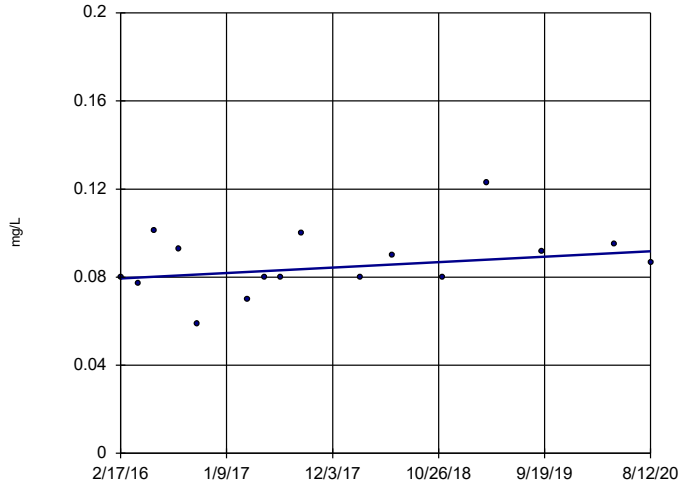
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 16

Slope = 0.00276 units per year.

Mann-Kendall statistic = 32 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

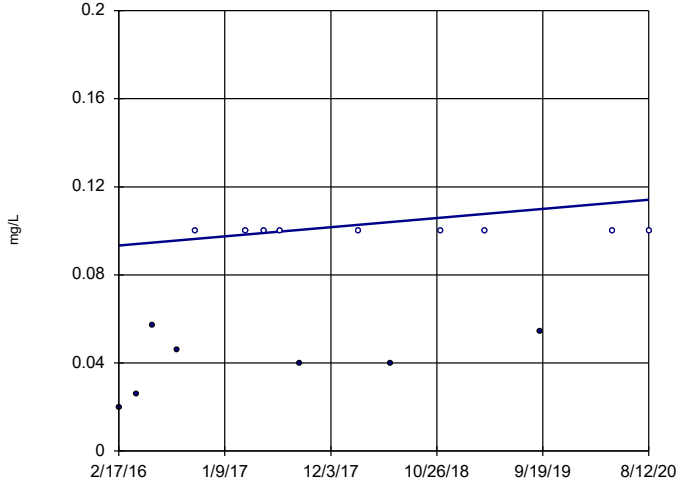
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 16

Slope = 0.004644 units per year.

Mann-Kendall statistic = 39 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

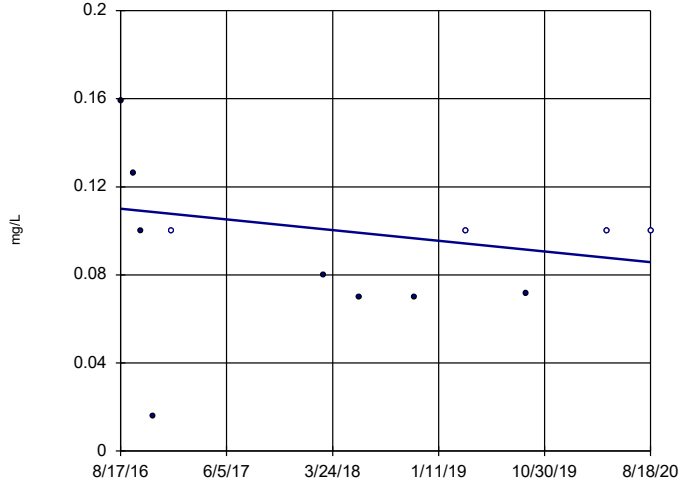
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 12

Slope = -0.006055 units per year.

Mann-Kendall statistic = -13 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

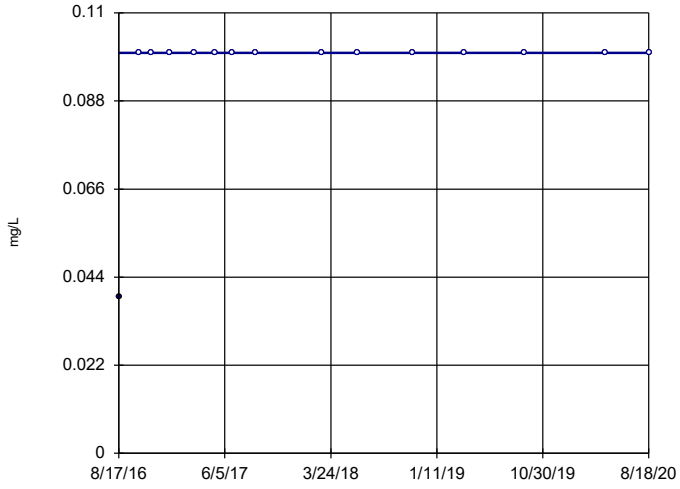
Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 14
critical = 53

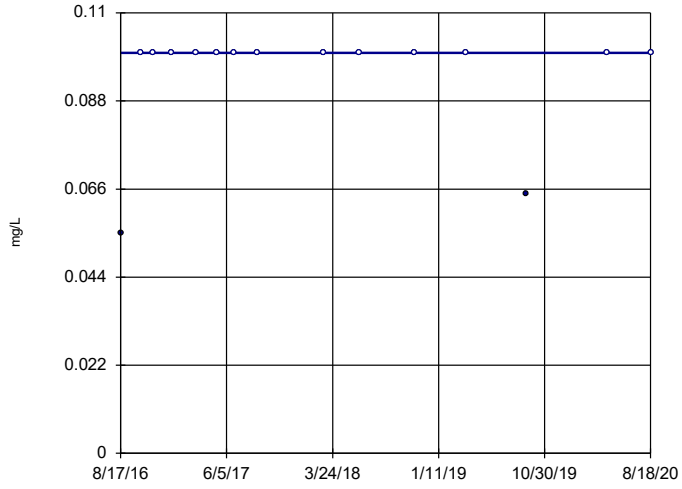
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Fluoride Analysis Run 10/26/2020 2:27 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 5
critical = 53

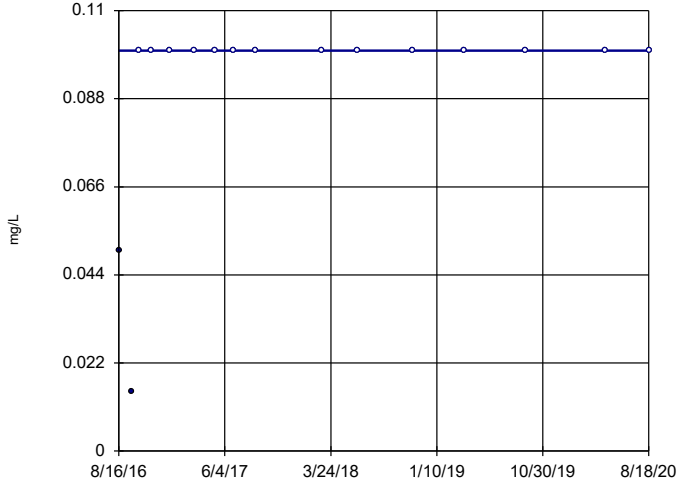
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Fluoride Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 16

Slope = 0
units per year.

Mann-Kendall
statistic = 27
critical = 58

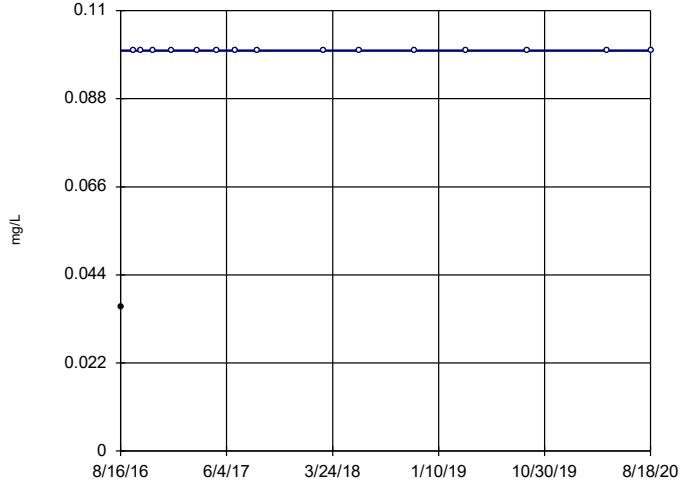
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Fluoride Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 16

Slope = 0
units per year.

Mann-Kendall
statistic = 15
critical = 58

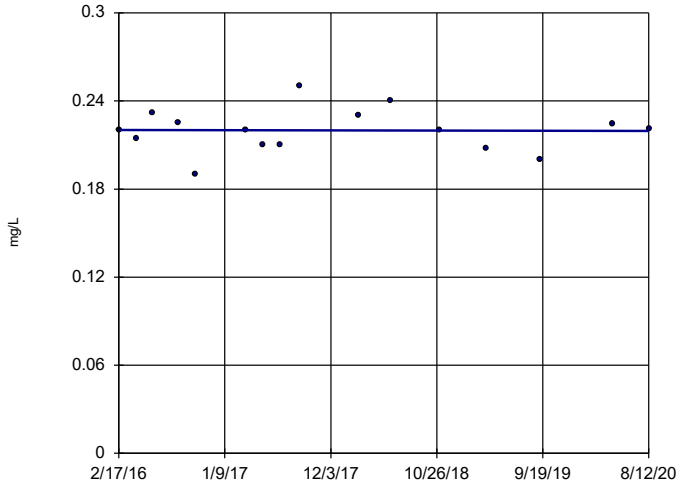
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Fluoride Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 16

Slope = -0.0001359 units per year.

Mann-Kendall statistic = -4 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

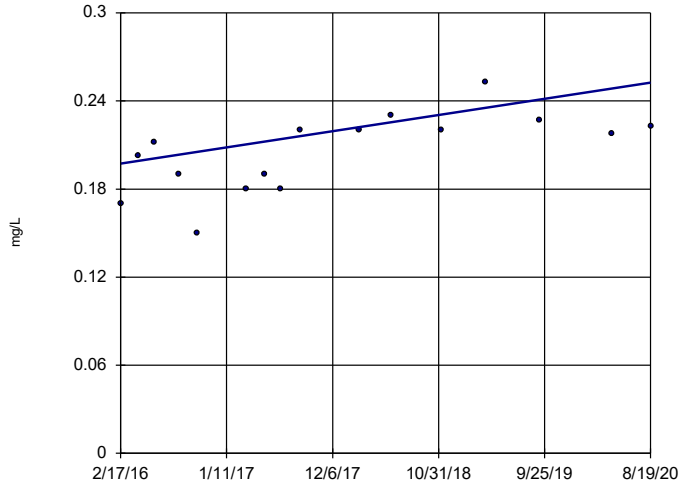
Constituent: Fluoride Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 16

Slope = 0.01227 units per year.

Mann-Kendall statistic = 61 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

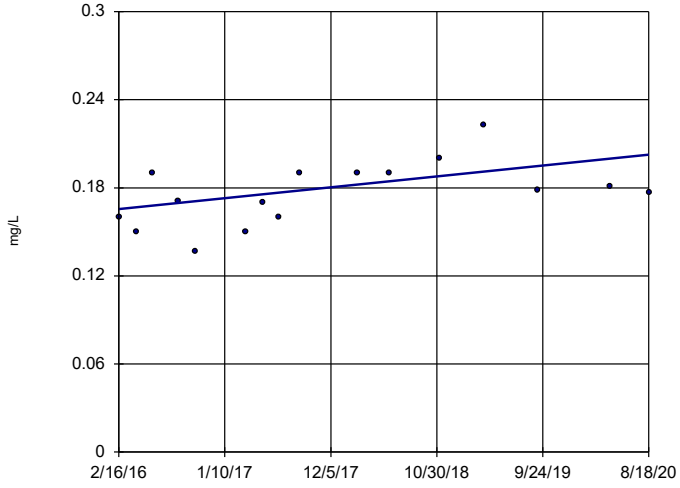
Constituent: Fluoride Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 16

Slope = 0.00819 units per year.

Mann-Kendall statistic = 44 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

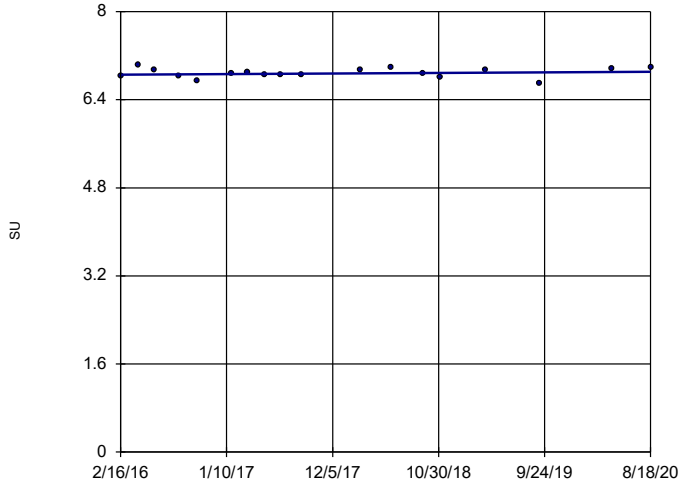
Constituent: Fluoride Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 18

Slope = 0.01155 units per year.

Mann-Kendall statistic = 23 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

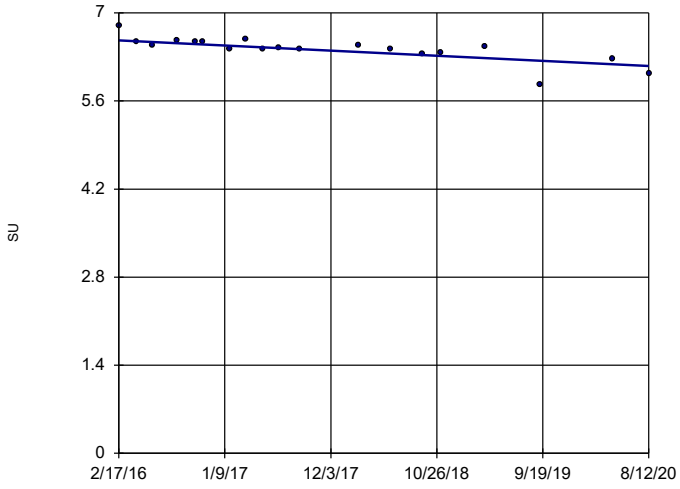
Constituent: pH Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 19

Slope = -0.09045 units per year.

Mann-Kendall statistic = -105 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

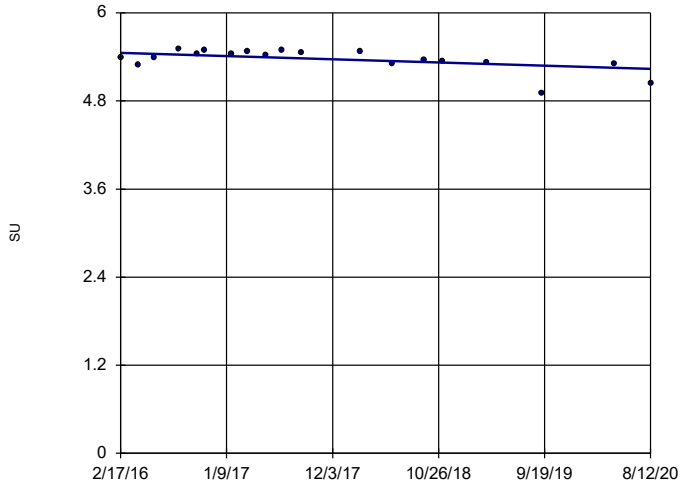
Constituent: pH Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 19

Slope = -0.04888 units per year.

Mann-Kendall statistic = -63 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

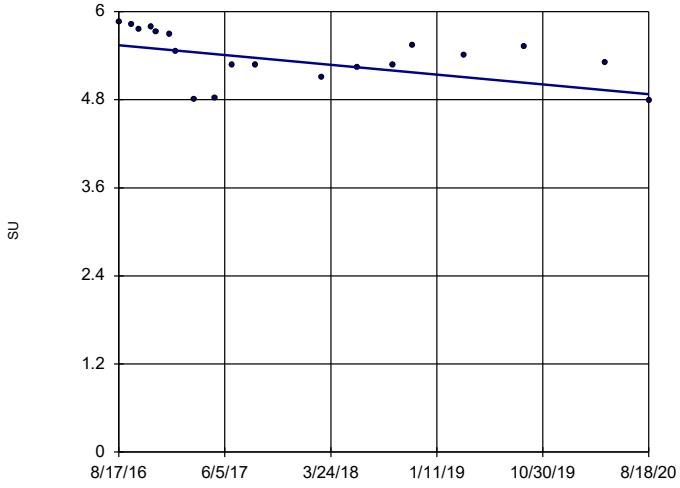
Constituent: pH Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 19

Slope = -0.1672 units per year.

Mann-Kendall statistic = -74 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

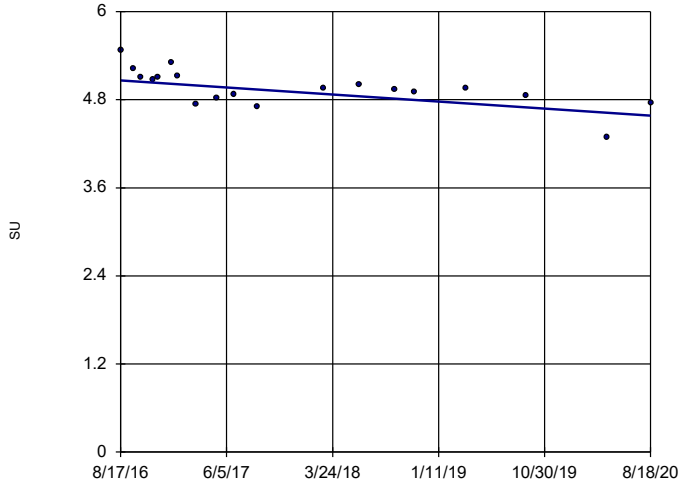
Constituent: pH Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 19

Slope = -0.1201 units per year.

Mann-Kendall statistic = -89 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

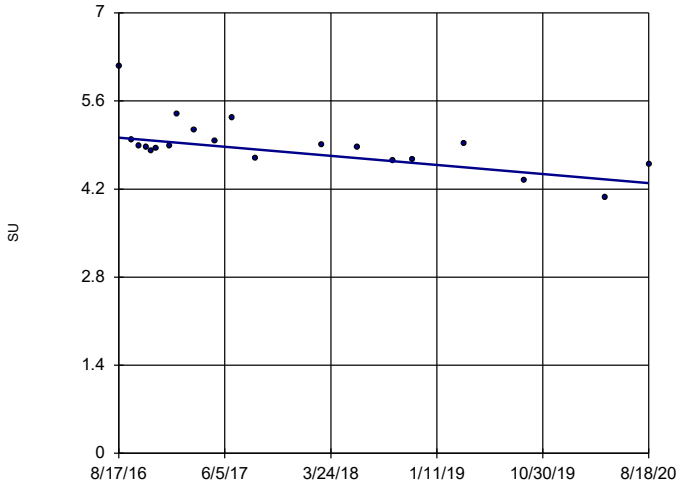
Constituent: pH Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 20

Slope = -0.1802 units per year.

Mann-Kendall statistic = -86 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

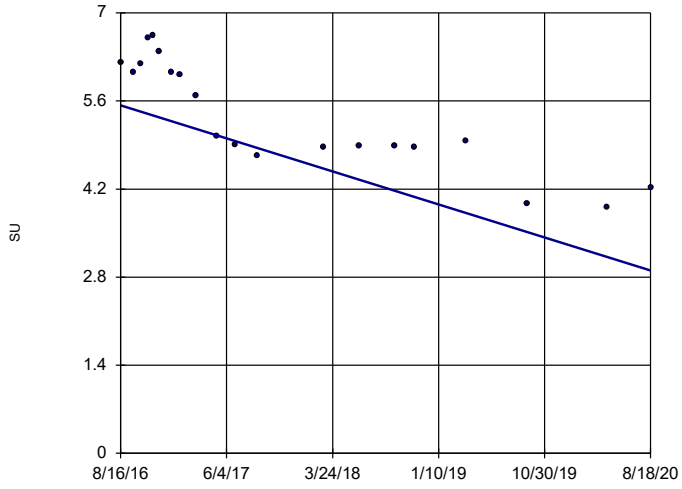
Constituent: pH Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 20

Slope = -0.6553 units per year.

Mann-Kendall statistic = -138 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

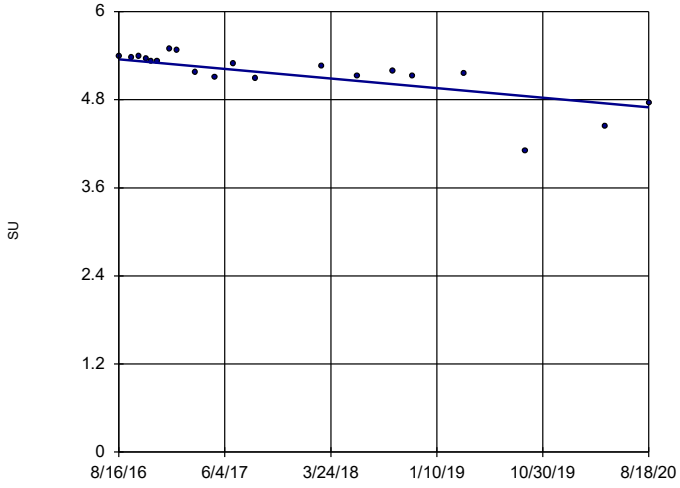
Constituent: pH Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 20

Slope = -0.1633 units per year.

Mann-Kendall statistic = -121 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

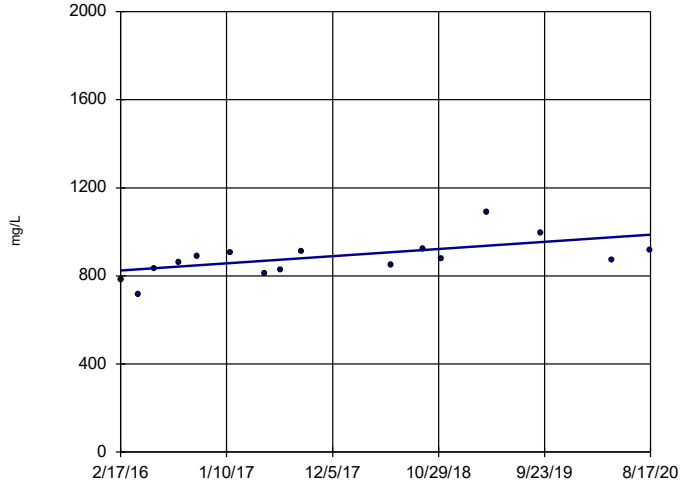
Constituent: pH Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 16

Slope = 36.2 units per year.

Mann-Kendall statistic = 64 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

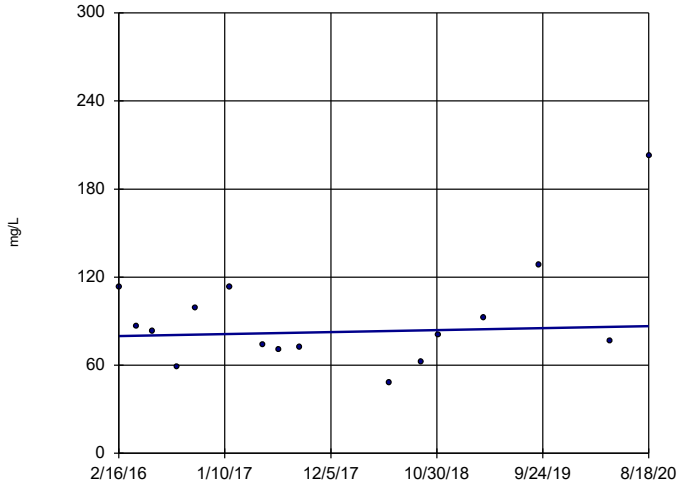
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 16

Slope = 1.503 units per year.

Mann-Kendall statistic = 5 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

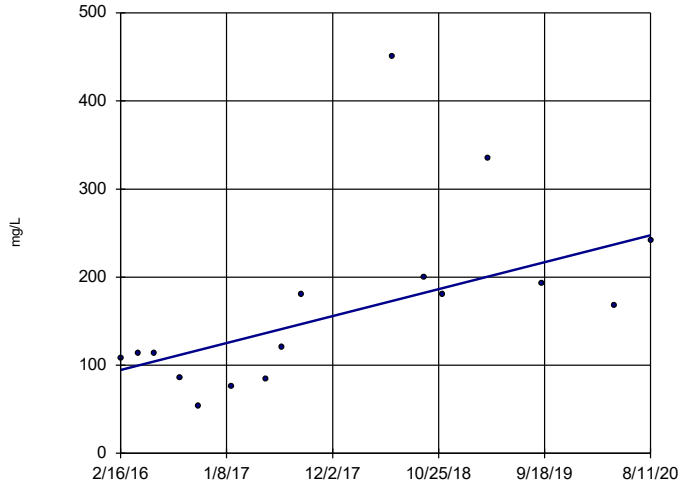
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 16

Slope = 34.12 units per year.

Mann-Kendall statistic = 58 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

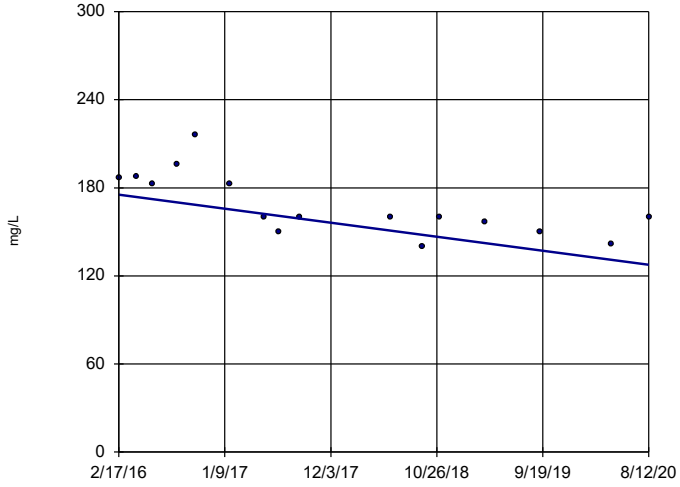
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 16

Slope = -10.66 units per year.

Mann-Kendall statistic = -66 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

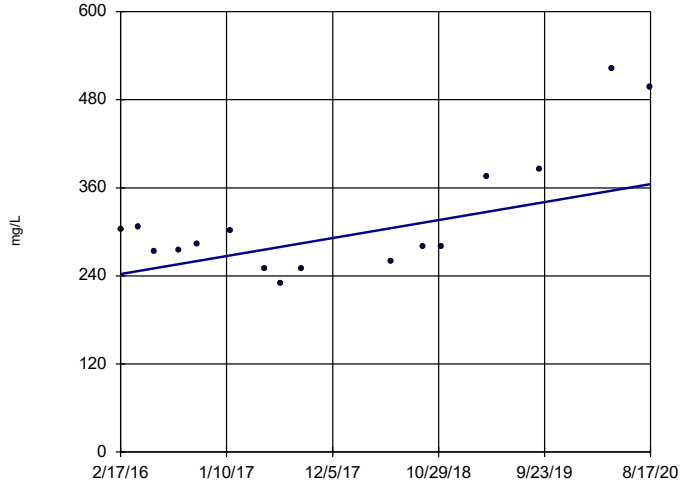
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 16

Slope = 27.21 units per year.

Mann-Kendall statistic = 34 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

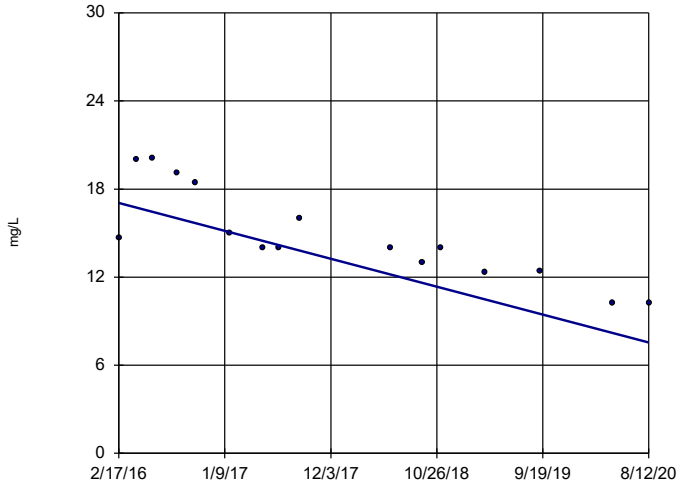
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 16

Slope = -2.116 units per year.

Mann-Kendall statistic = -89 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

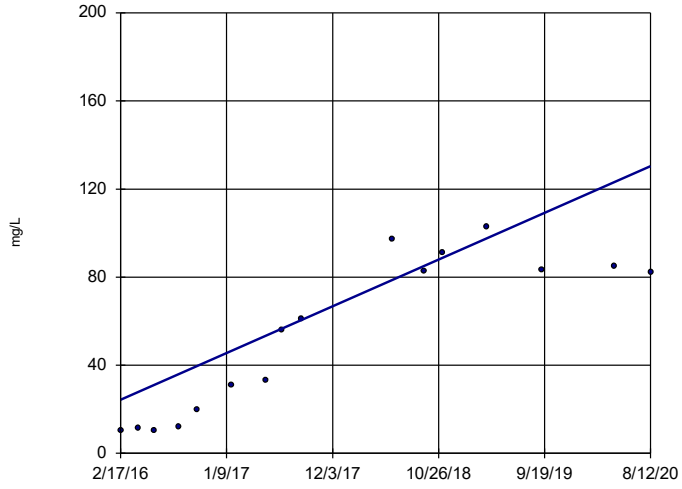
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 16

Slope = 23.63 units per year.

Mann-Kendall statistic = 89 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

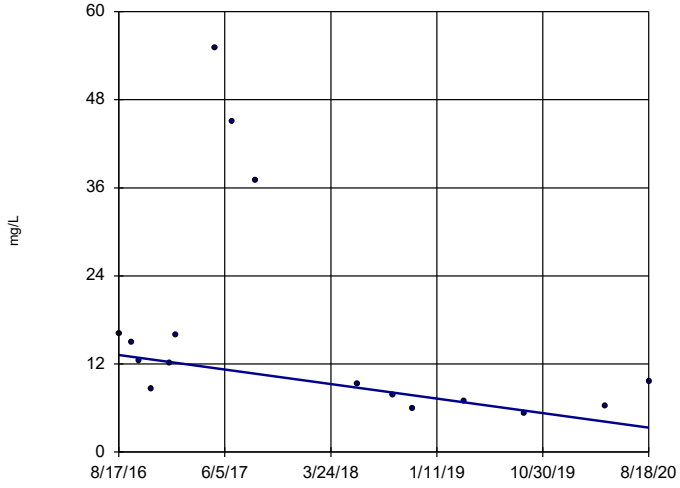
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 16

Slope = -2.475 units per year.

Mann-Kendall statistic = -52 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

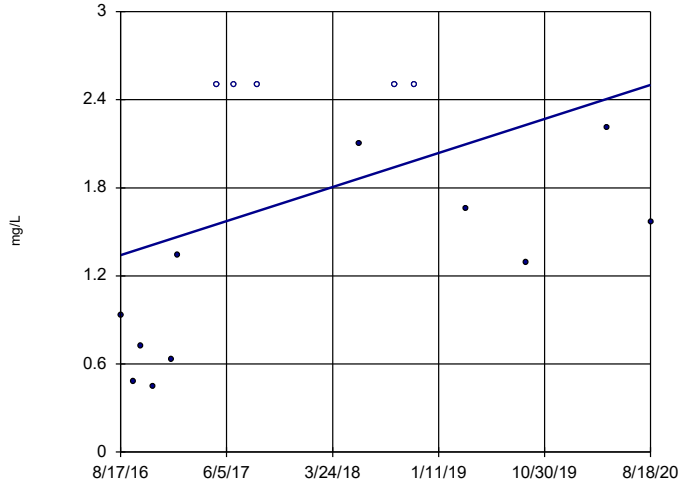
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 16

Slope = 0.2897 units per year.

Mann-Kendall statistic = 36 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

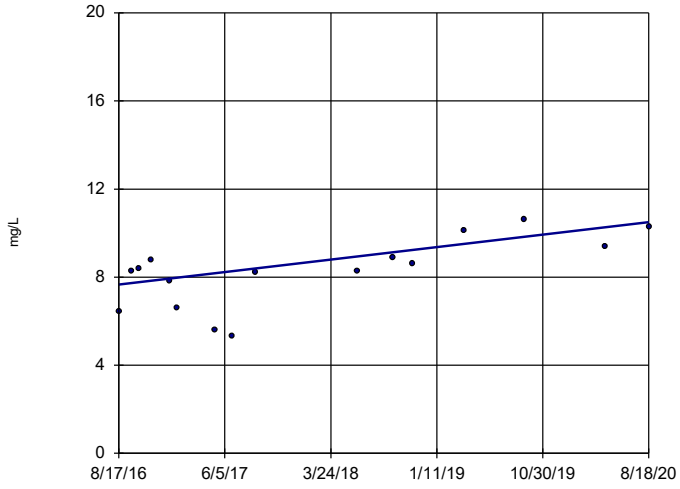
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 16

Slope = 0.7084 units per year.

Mann-Kendall statistic = 59 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

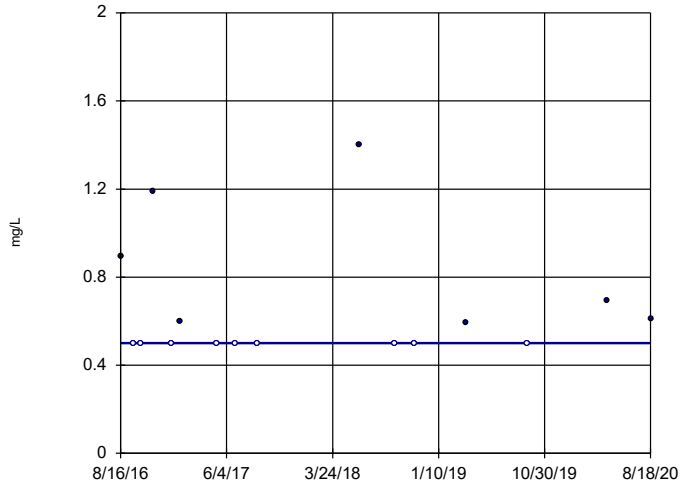
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 6 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

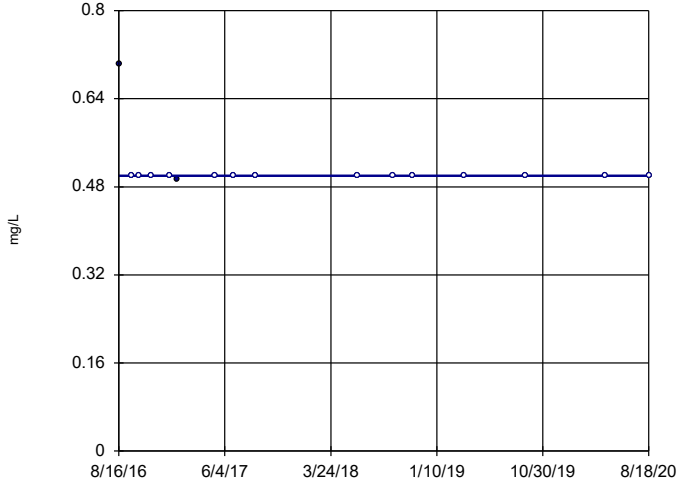
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -9 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

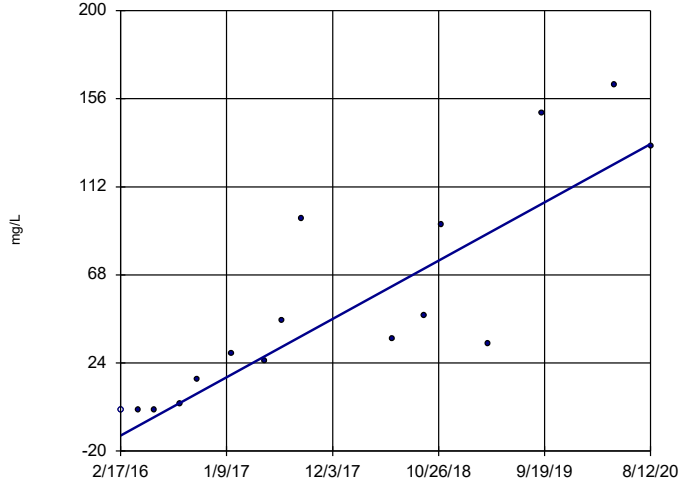
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-5



n = 16

Slope = 32.43 units per year.

Mann-Kendall statistic = 94 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

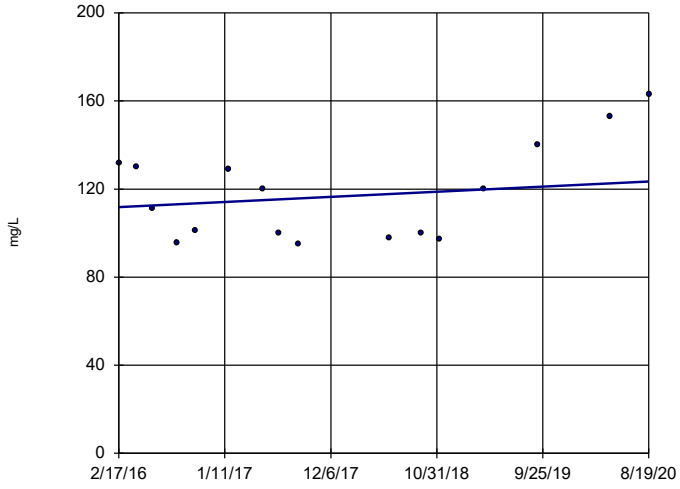
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 16

Slope = 2.587 units per year.

Mann-Kendall statistic = 12 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

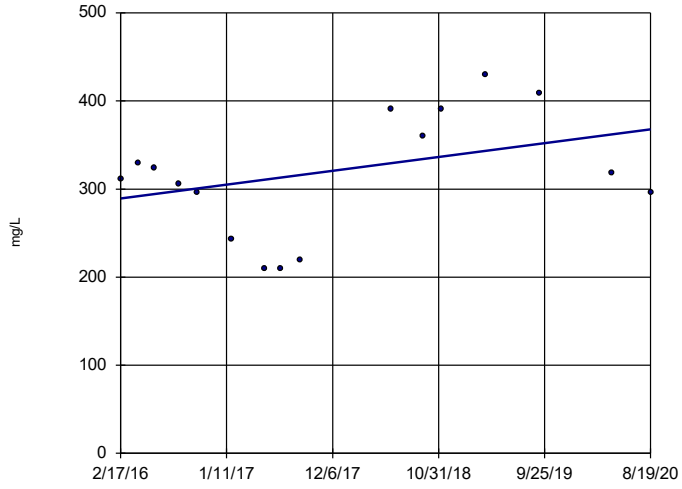
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 16

Slope = 17.43 units per year.

Mann-Kendall statistic = 17 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

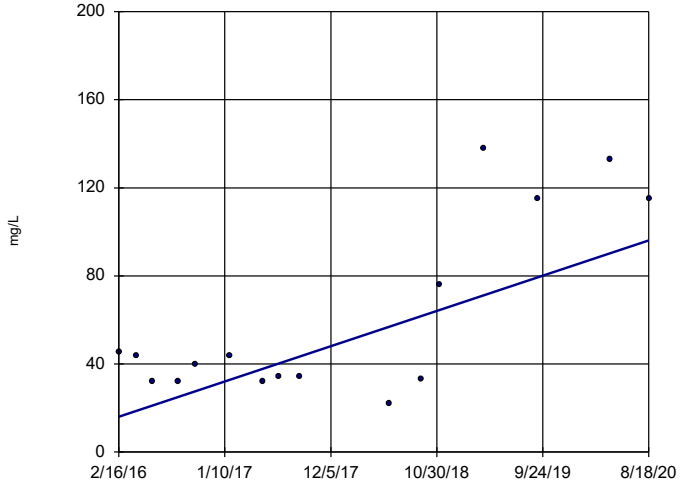
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-9



n = 16

Slope = 17.76 units per year.

Mann-Kendall statistic = 37 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

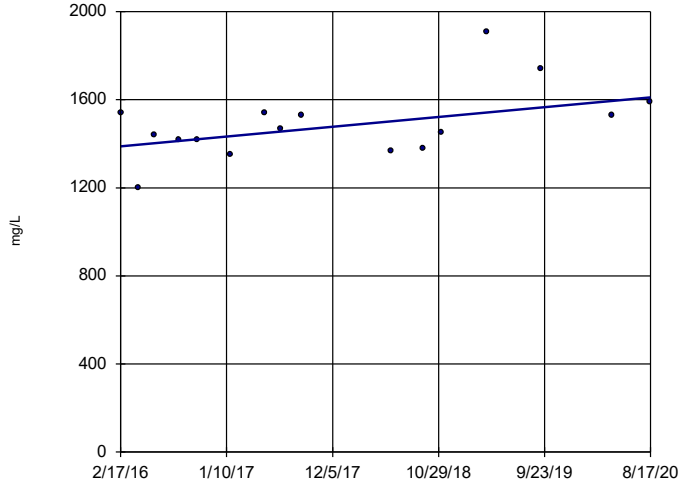
Constituent: Sulfate Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-1



n = 16

Slope = 49.51 units per year.

Mann-Kendall statistic = 39 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

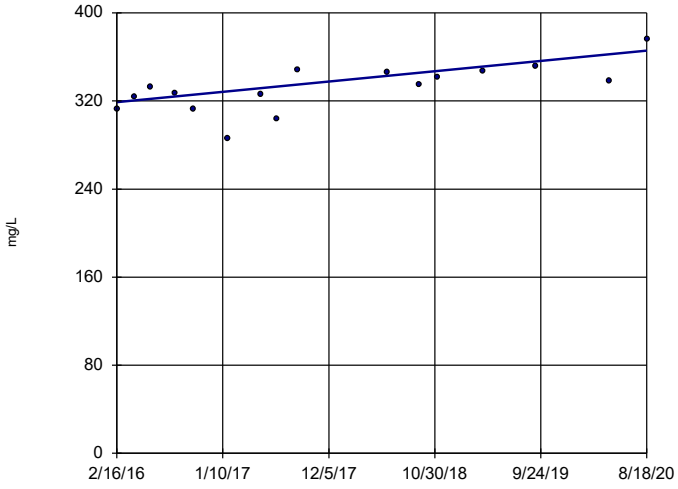
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-10



n = 16

Slope = 10.4 units per year.

Mann-Kendall statistic = 63 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

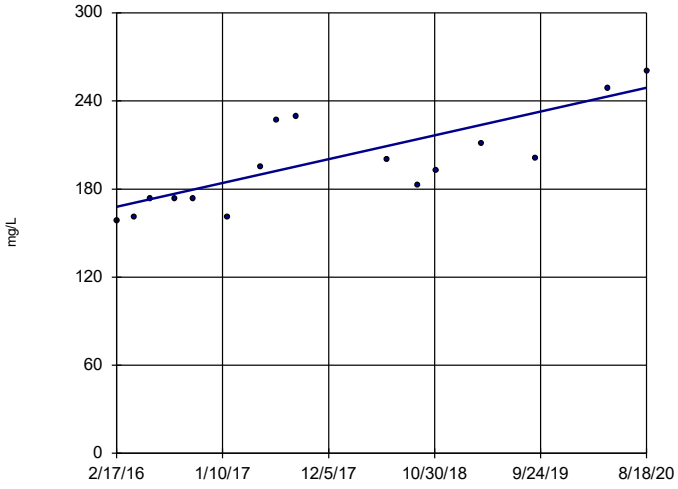
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-11



n = 16

Slope = 18 units per year.

Mann-Kendall statistic = 80 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

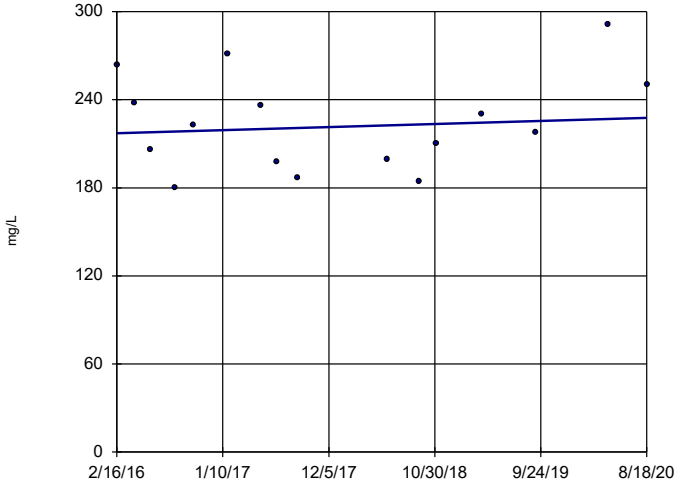
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-12



n = 16

Slope = 2.345 units per year.

Mann-Kendall statistic = 6 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

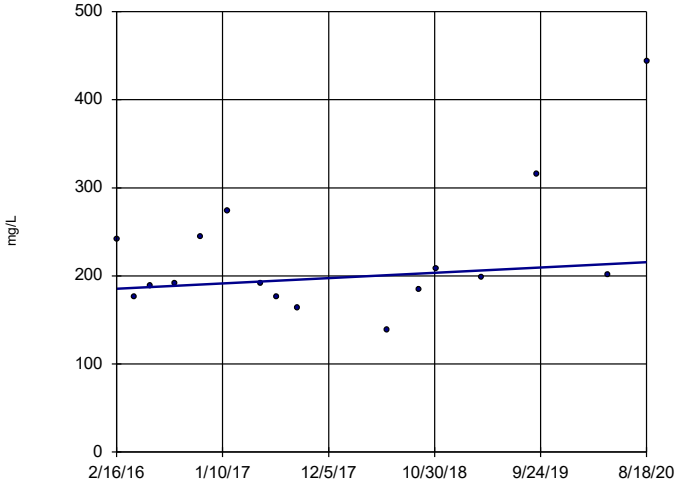
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-13



n = 16

Slope = 6.706 units per year.

Mann-Kendall statistic = 23 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

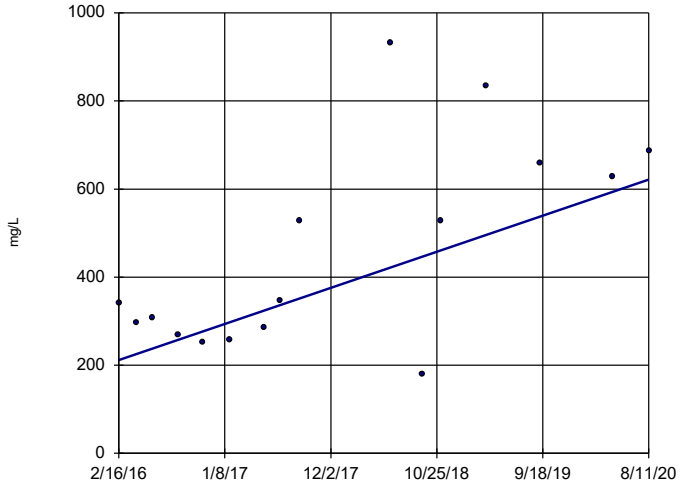
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-14



n = 16

Slope = 91.39 units per year.

Mann-Kendall statistic = 49 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

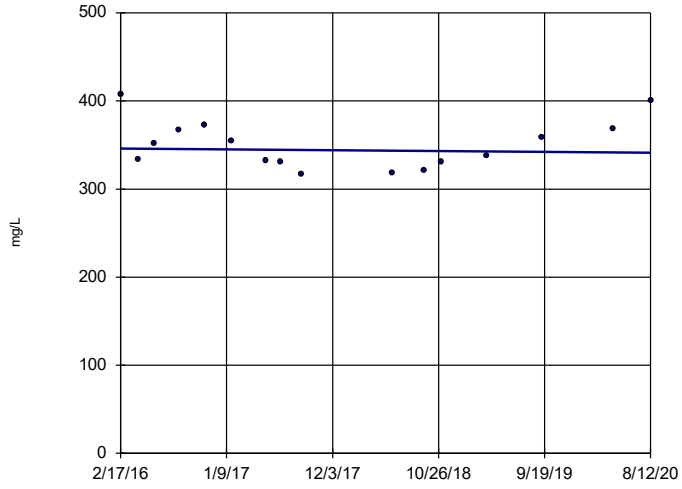
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-15



n = 16

Slope = -1.016 units per year.

Mann-Kendall statistic = -5 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

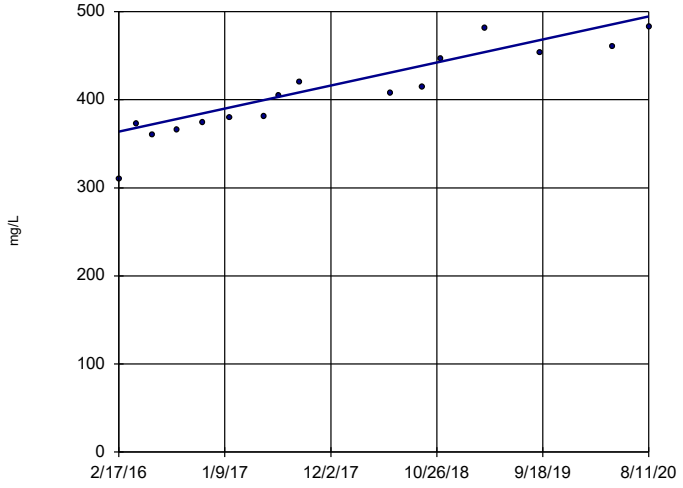
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-16



n = 16

Slope = 29.13 units per year.

Mann-Kendall statistic = 108 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

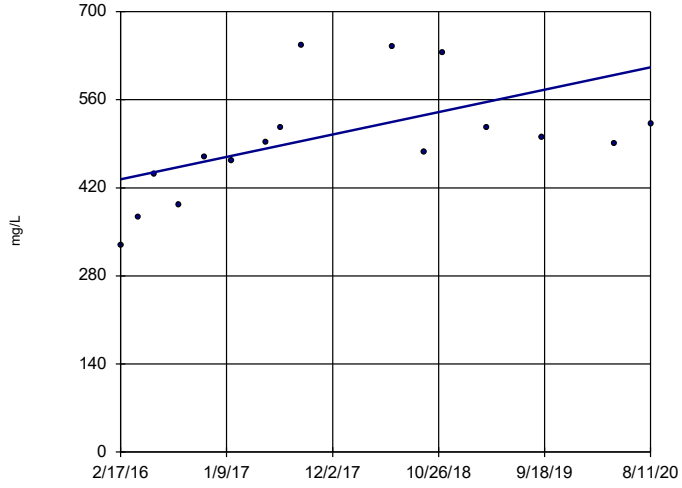
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-17



n = 16

Slope = 39.61 units per year.

Mann-Kendall statistic = 65 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

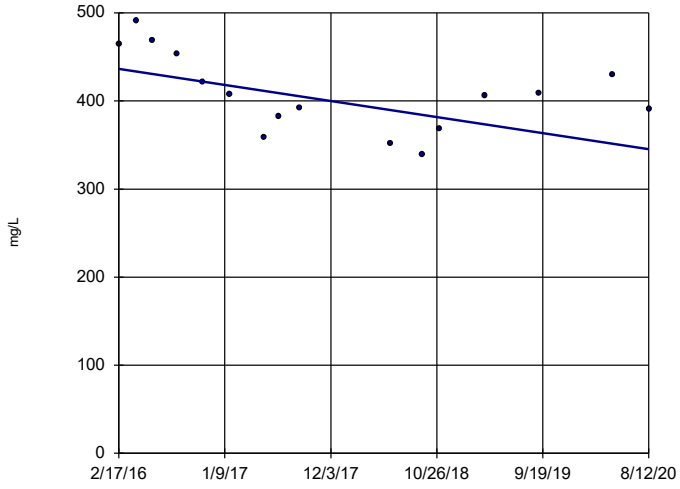
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-18



n = 16

Slope = -20.25 units per year.

Mann-Kendall statistic = -46 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

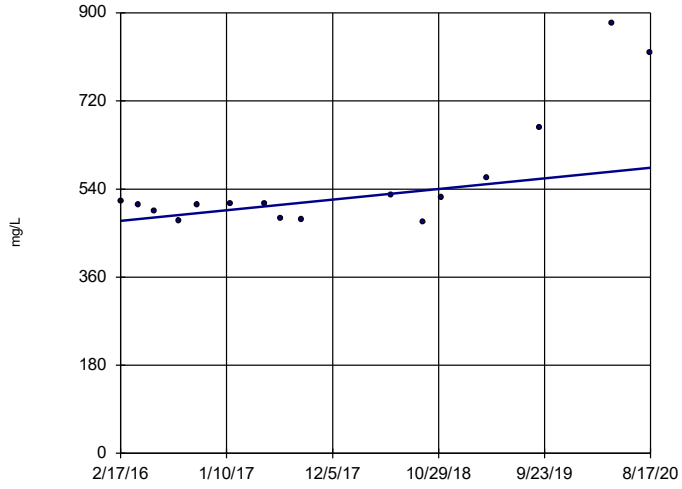
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-2



n = 16

Slope = 24.04 units per year.

Mann-Kendall statistic = 50 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

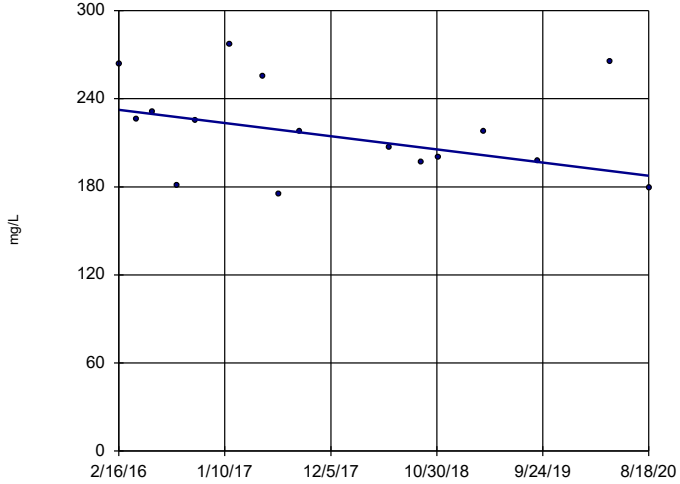
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-21



n = 16

Slope = -9.955 units per year.

Mann-Kendall statistic = -35 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

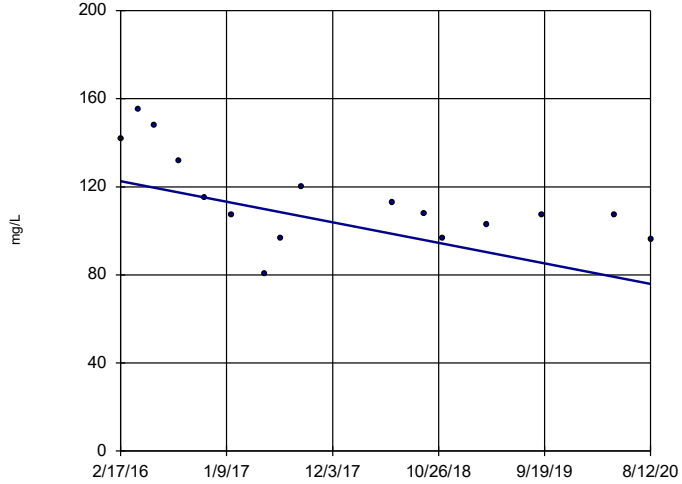
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-23 (bg)



n = 16

Slope = -10.39 units per year.

Mann-Kendall statistic = -64 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

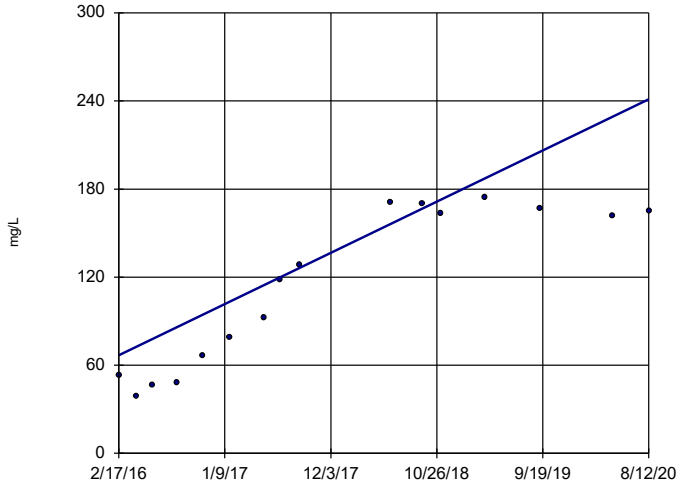
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-24 (bg)



n = 16

Slope = 38.88 units per year.

Mann-Kendall statistic = 84 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

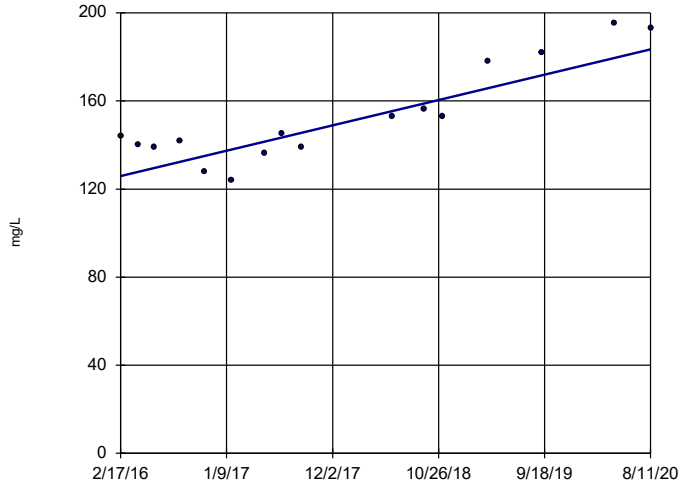
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-25



n = 16

Slope = 12.82 units per year.

Mann-Kendall statistic = 72 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

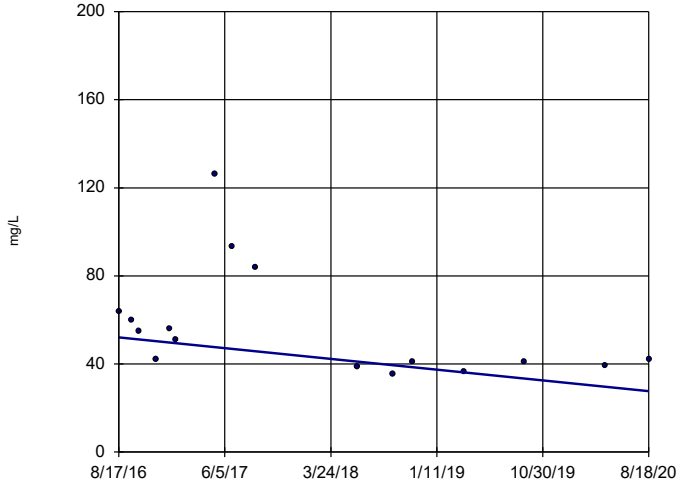
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-26 (bg)



n = 16

Slope = -6.112 units per year.

Mann-Kendall statistic = -46 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

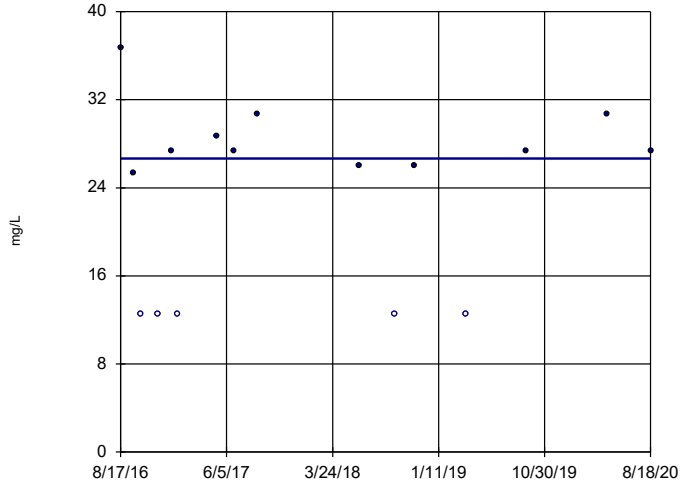
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-27 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 10 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

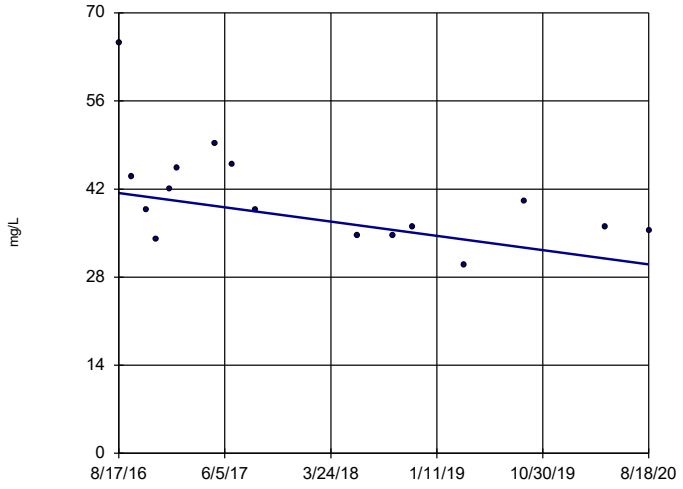
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-28 (bg)



n = 16

Slope = -2.836 units per year.

Mann-Kendall statistic = -43 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

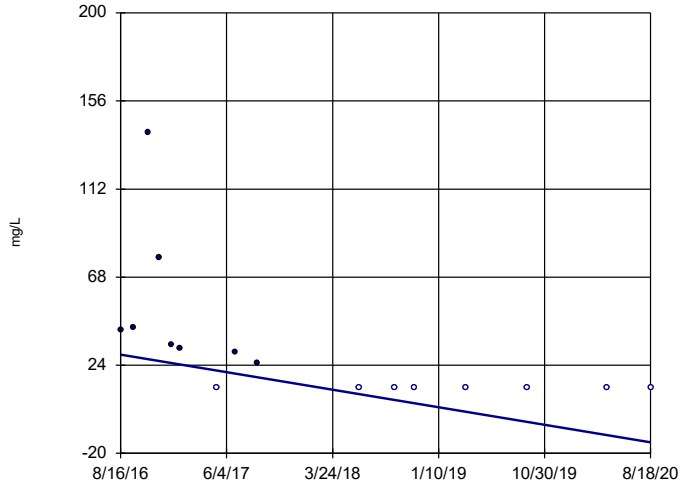
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-29 (bg)



n = 16

Slope = -10.92 units per year.

Mann-Kendall statistic = -78 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

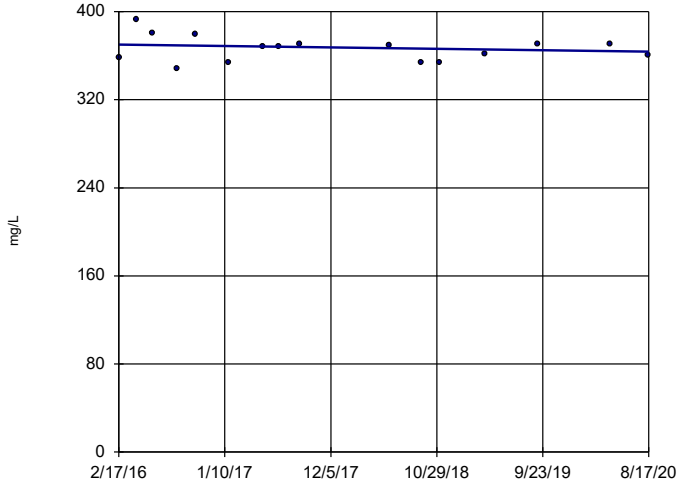
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-3



n = 16

Slope = -1.392 units per year.

Mann-Kendall statistic = -9 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

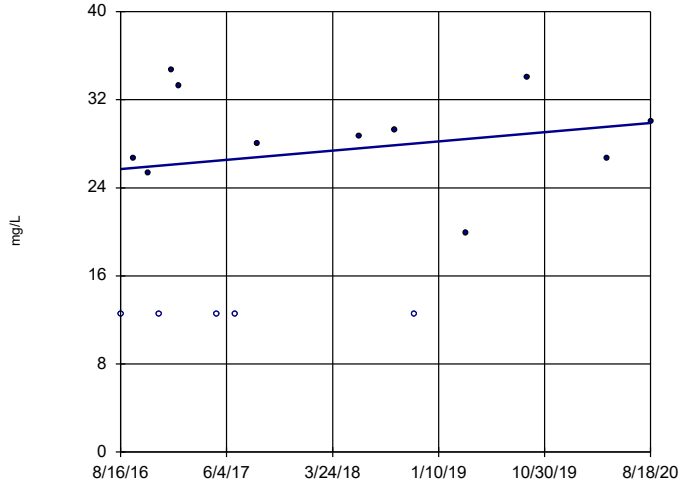
Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GC-AP-MW-30 (bg)



n = 16

Slope = 1.044 units per year.

Mann-Kendall statistic = 25 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

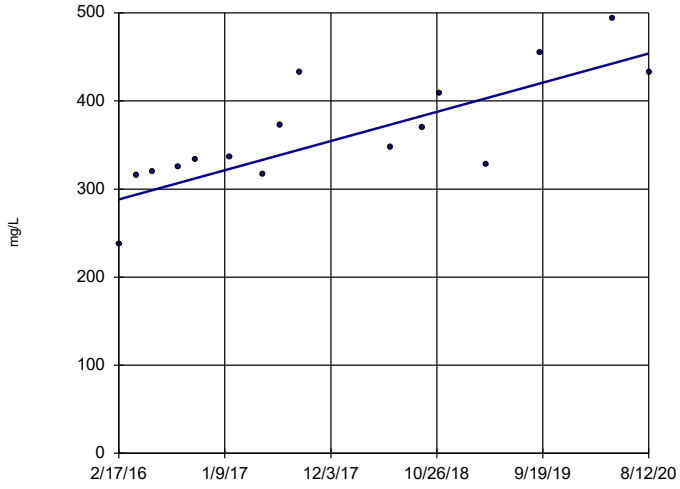
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-5



n = 16

Slope = 36.94 units per year.

Mann-Kendall statistic = 84 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

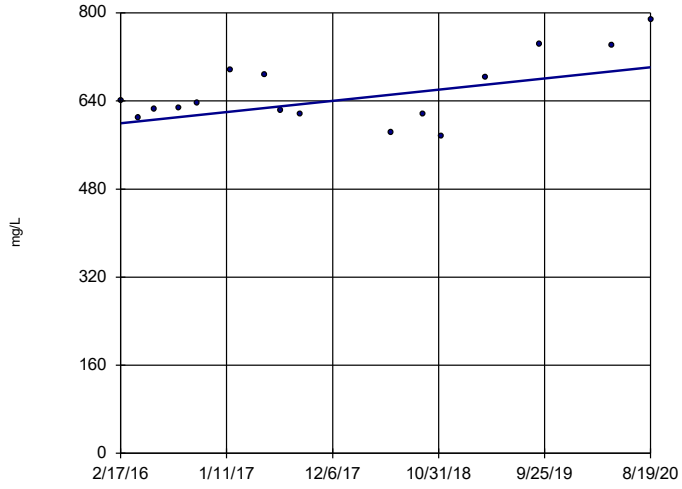
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-6



n = 16

Slope = 22.55 units per year.

Mann-Kendall statistic = 23 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

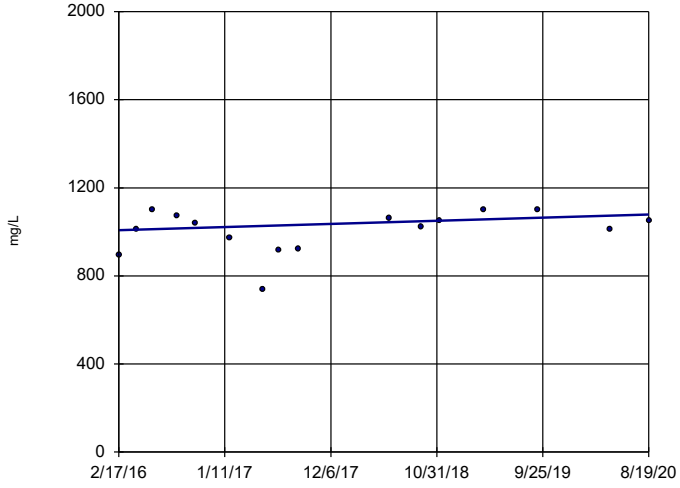
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-7



n = 16

Slope = 15.86 units per year.

Mann-Kendall statistic = 25 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

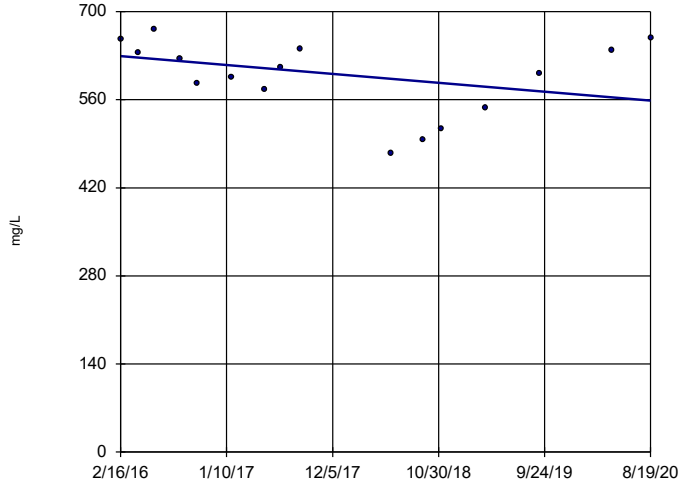
Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GC-AP-MW-8



n = 16

Slope = -15.7 units per year.

Mann-Kendall statistic = -20 critical = -58

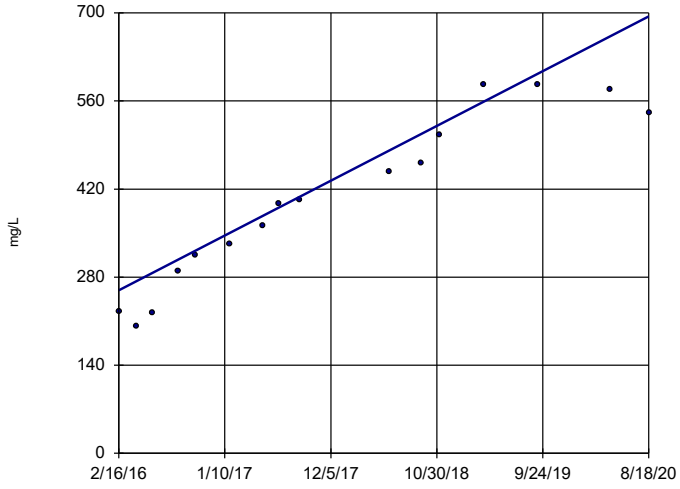
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

Sen's Slope Estimator

GC-AP-MW-9



n = 16

Slope = 96.66 units per year.

Mann-Kendall statistic = 105 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/26/2020 2:28 PM View: Appendix III - Trend Tests

Plant Greene County Client: Southern Company Data: Greene County AP

FIGURE F.

Upper Tolerance Limits - Appendix IV

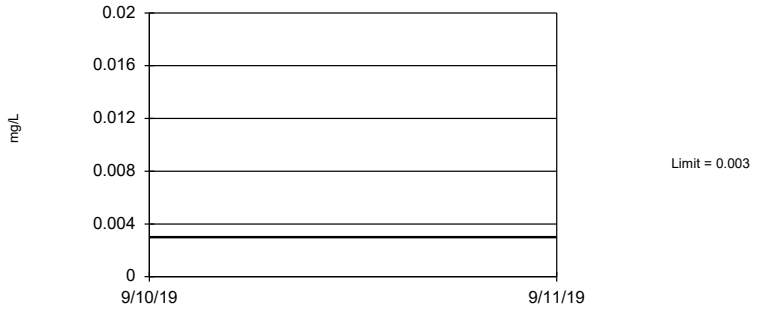
Greene County Client: Southern Company Data: Greene County AP Printed 7/23/2020, 8:28 AM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	91	n/a	n/a	89.01	n/a	n/a	0.009394	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	91	n/a	n/a	85.71	n/a	n/a	0.009394	NP Inter(NDs)
Barium (mg/L)	0.347	n/a	91	n/a	n/a	0	n/a	n/a	0.009394	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	91	n/a	n/a	86.81	n/a	n/a	0.009394	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	91	n/a	n/a	78.02	n/a	n/a	0.009394	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Cobalt (mg/L)	0.0167	n/a	91	n/a	n/a	60.44	n/a	n/a	0.009394	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	1.88	n/a	91	n/a	n/a	4.396	n/a	n/a	0.009394	NP Inter(normal...
Fluoride (mg/L)	0.159	n/a	92	n/a	n/a	61.96	n/a	n/a	0.008924	NP Inter(normal...
Lead (mg/L)	0.005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Mercury (mg/L)	0.0005	n/a	91	n/a	n/a	100	n/a	n/a	0.009394	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	91	n/a	n/a	98.9	n/a	n/a	0.009394	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	91	n/a	n/a	91.21	n/a	n/a	0.009394	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	91	n/a	n/a	97.8	n/a	n/a	0.009394	NP Inter(NDs)

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 89.01% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

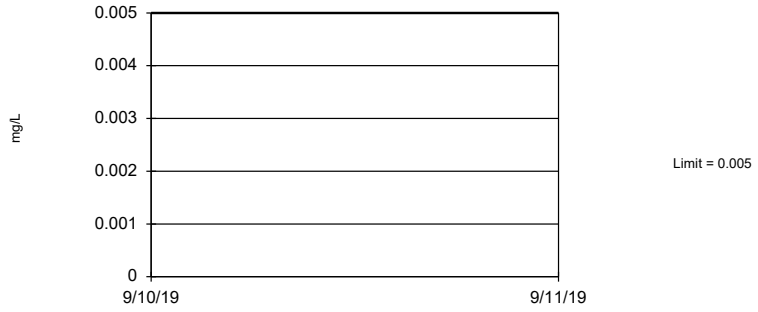
Constituent: Antimony Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 85.71% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

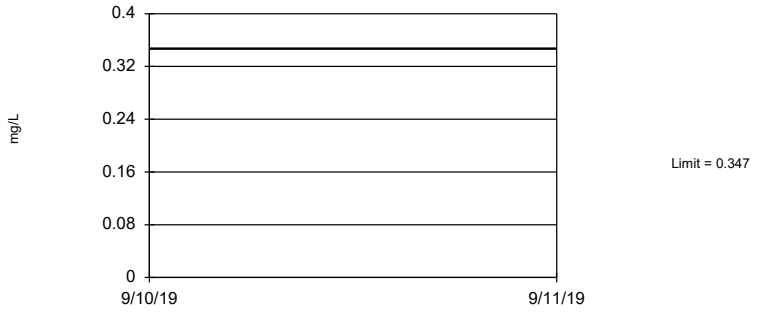
Constituent: Arsenic Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

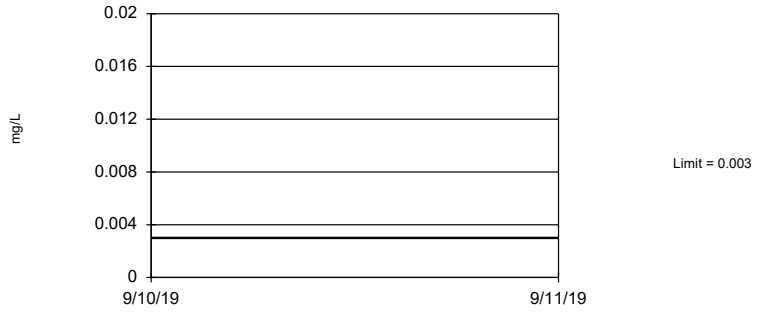
Constituent: Barium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 86.81% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

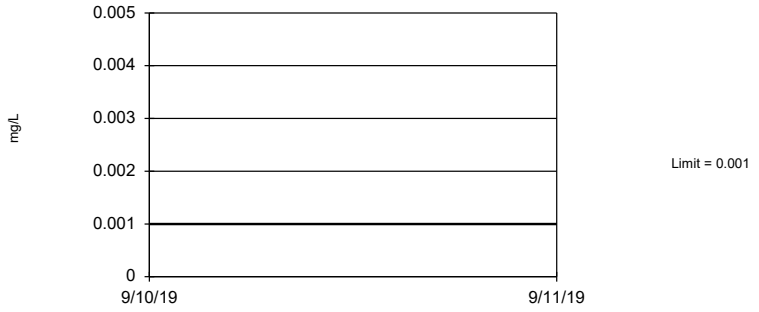
Constituent: Beryllium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 78.02% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

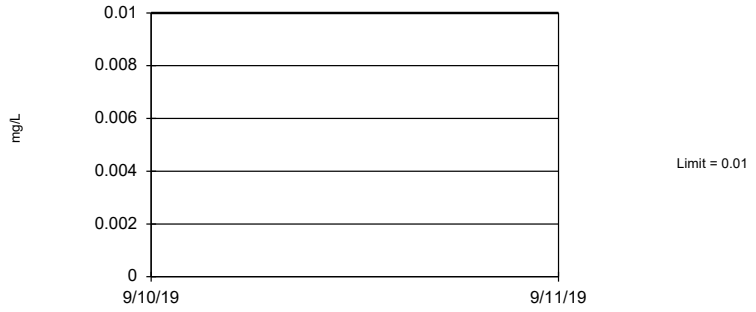
Constituent: Cadmium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

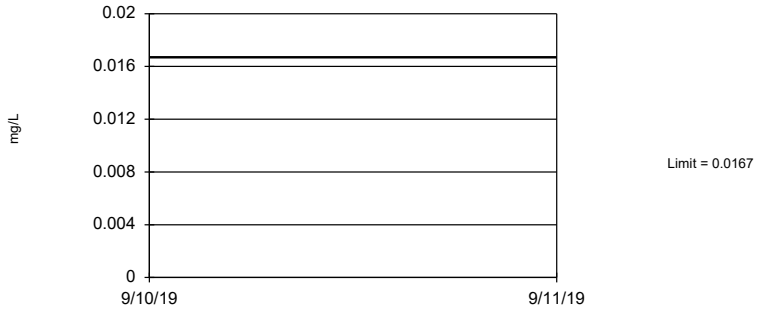
Constituent: Chromium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 60.44% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

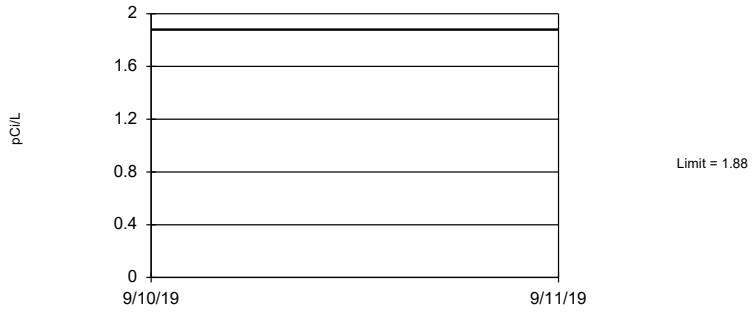
Constituent: Cobalt Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. 4.396% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Combined Radium 226 + 228 Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 92 background values. 61.96% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008924.

Constituent: Fluoride Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Lead Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

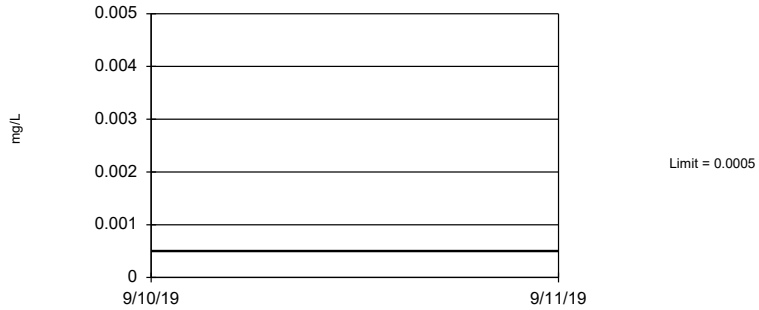
Constituent: Lithium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

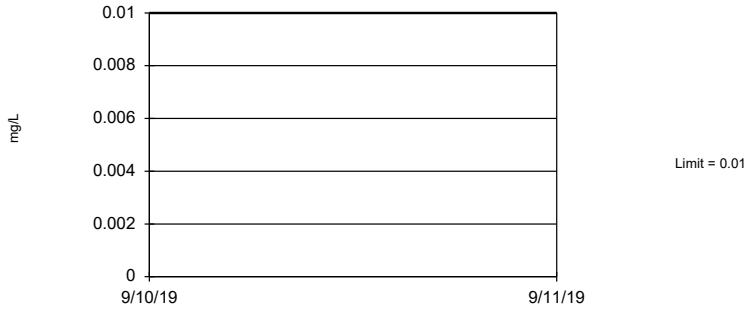
Constituent: Mercury Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 98.9% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

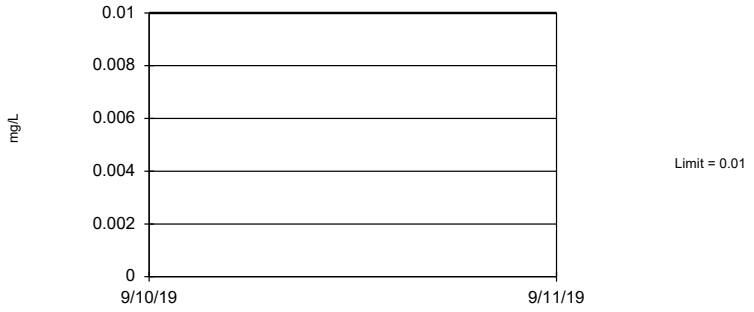
Constituent: Molybdenum Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 91.21% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

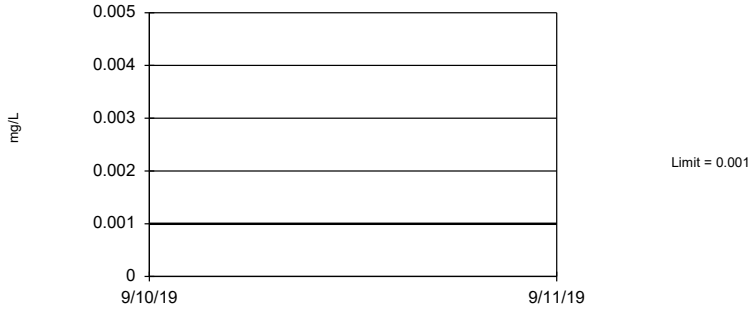
Constituent: Selenium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.24 Sanitas software licensed to Southern Company. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 91 background values. 97.8% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.009394.

Constituent: Thallium Analysis Run 7/23/2020 8:26 AM View: UTL's - Appendix IV

Greene County Client: Southern Company Data: Greene County AP

FIGURE G.

GREENE COUNTY ASH POND GWPS			
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
Combined Radium-226/228	pCi/L	1.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	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

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 2019.

FIGURE H.

Confidence Intervals - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 4:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GC-AP-MW-1**	**0.02541**	**0.01776**	**0.01**	**Yes**	**8**	**0.02159**	**0.003607**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0233**	**0.0121**	**0.01**	**Yes**	**8**	**0.0147**	**0.003646**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-14**	**0.032**	**0.01945**	**0.01**	**Yes**	**8**	**0.02573**	**0.005917**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-16**	**0.09491**	**0.06459**	**0.01**	**Yes**	**8**	**0.07975**	**0.0143**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.6034**	**0.3086**	**0.01**	**Yes**	**8**	**0.456**	**0.1391**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.0672**	**0.0477**	**0.01**	**Yes**	**8**	**0.05513**	**0.008678**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4541**	**0.3859**	**0.01**	**Yes**	**8**	**0.42**	**0.0322**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-1**	**0.1844**	**0.0658**	**0.0167**	**Yes**	**8**	**0.1223**	**0.0599**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	**GC-AP-MW-11**	**0.05068**	**0.01787**	**0.0167**	**Yes**	**8**	**0.03428**	**0.01547**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-10**	**0.1218**	**0.1018**	**0.04**	**Yes**	**8**	**0.1118**	**0.009398**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-11**	**0.1261**	**0.08972**	**0.04**	**Yes**	**8**	**0.1079**	**0.01953**	**0**	**None**	**x^2**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-12**	**0.1314**	**0.05134**	**0.04**	**Yes**	**8**	**0.09138**	**0.03777**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.2993**	**0.06302**	**0.04**	**Yes**	**8**	**0.1812**	**0.1114**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.9775**	**0.5567**	**0.04**	**Yes**	**8**	**0.7639**	**0.2084**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.6057**	**0.5283**	**0.04**	**Yes**	**8**	**0.567**	**0.03648**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.6015**	**0.5122**	**0.04**	**Yes**	**8**	**0.5569**	**0.04211**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.663**	**0.534**	**0.04**	**Yes**	**8**	**0.5985**	**0.06089**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.4186**	**0.3349**	**0.04**	**Yes**	**8**	**0.3768**	**0.03949**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-21**	**0.09196**	**0.05354**	**0.04**	**Yes**	**8**	**0.07275**	**0.01812**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-5**	**0.1282**	**0.09573**	**0.04**	**Yes**	**8**	**0.112**	**0.01532**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 4:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-12	0.003	0.000656	0.006	No	8	0.002194	0.001125	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.00374	0.002128	0.006	No	8	0.002934	0.0007607	0	None	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-17	0.003	0.000897	0.006	No	8	0.002737	0.0007435	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-21	0.003	0.000964	0.006	No	8	0.002746	0.0007198	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-6	0.003	0.00141	0.006	No	8	0.002801	0.0005621	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	**GC-AP-MW-1**	**0.02541**	**0.01776**	**0.01**	**Yes**	**8**	**0.02159**	**0.003607**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-10**	**0.0233**	**0.0121**	**0.01**	**Yes**	**8**	**0.0147**	**0.003646**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Arsenic (mg/L)	GC-AP-MW-11	0.007197	0.003435	0.01	No	8	0.005316	0.001775	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-13	0.005285	0.001727	0.01	No	8	0.003506	0.001678	0	None	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-14**	**0.032**	**0.01945**	**0.01**	**Yes**	**8**	**0.02573**	**0.005917**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-16**	**0.09491**	**0.06459**	**0.01**	**Yes**	**8**	**0.07975**	**0.0143**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-17**	**0.6034**	**0.3086**	**0.01**	**Yes**	**8**	**0.456**	**0.1391**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GC-AP-MW-18**	**0.0672**	**0.0477**	**0.01**	**Yes**	**8**	**0.05513**	**0.008678**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Arsenic (mg/L)	GC-AP-MW-2	0.01593	0.007456	0.01	No	8	0.0116	0.004609	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.008372	0.006433	0.01	No	8	0.007403	0.0009148	0	None	No	0.01	Param.
Arsenic (mg/L)	**GC-AP-MW-5**	**0.4541**	**0.3859**	**0.01**	**Yes**	**8**	**0.42**	**0.0322**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GC-AP-MW-9	0.01086	0.008421	0.01	No	8	0.009643	0.001153	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.037	0.02302	2	No	8	0.03001	0.006596	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.2044	0.1544	2	No	8	0.1794	0.02361	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.09423	0.05929	2	No	8	0.07676	0.01648	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.02759	0.01791	2	No	8	0.02275	0.00457	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.275	0.0874	2	No	8	0.1351	0.06656	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-14	0.09233	0.06182	2	No	8	0.07708	0.01439	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.03435	0.0245	2	No	8	0.02943	0.004642	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.08702	0.0457	2	No	8	0.06636	0.01949	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3046	0.1569	2	No	8	0.2308	0.06972	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.1325	0.09054	2	No	8	0.1115	0.01979	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03527	0.02776	2	No	8	0.03151	0.003543	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.06345	0.0343	2	No	8	0.04888	0.01375	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1073	0.0829	2	No	8	0.09509	0.0115	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.139	0.0936	2	No	8	0.1055	0.01513	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-31	0.02725	0.0221	2	No	8	0.02468	0.002431	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.01396	0.01234	2	No	8	0.01315	0.0007597	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-33	0.09555	0.06678	2	No	8	0.08116	0.01357	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.3878	0.1549	2	No	8	0.2714	0.1099	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.07725	0.04488	2	No	8	0.06106	0.01527	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.0843	0.06377	2	No	8	0.07404	0.009683	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1138	0.07993	2	No	8	0.09685	0.01596	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1893	0.1059	2	No	8	0.1476	0.03933	0	None	No	0.01	Param.
Chromium (mg/L)	GC-AP-MW-13	0.01	0.00219	0.1	No	8	0.009024	0.002761	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	**GC-AP-MW-1**	**0.1844**	**0.0658**	**0.0167**	**Yes**	**8**	**0.1223**	**0.0599**	**0**	**None**	**ln(x)**	**0.01**	**Param.**
Cobalt (mg/L)	GC-AP-MW-10	0.0287	0.0134	0.0167	No	8	0.01778	0.005563	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	**GC-AP-MW-11**	**0.05068**	**0.01787**	**0.0167**	**Yes**	**8**	**0.03428**	**0.01547**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	GC-AP-MW-14	0.03492	0.01252	0.0167	No	8	0.02372	0.01057	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.0193	0.0153	0.0167	No	8	0.0173	0.001885	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-16	0.01655	0.01268	0.0167	No	8	0.01461	0.001825	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.0346	0.01007	0.0167	No	8	0.02234	0.01157	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.01701	0.01389	0.0167	No	8	0.01545	0.001468	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.01997	0.00778	0.0167	No	8	0.01388	0.00575	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-25	0.0133	0.00712	0.0167	No	8	0.009994	0.002741	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-3	0.004633	0.003164	0.0167	No	8	0.003899	0.000693	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-33	0.0025	0.00247	0.0167	No	8	0.002496	0.00001061	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.007162	0.004956	0.0167	No	8	0.006059	0.001041	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.002863	0.002237	0.0167	No	8	0.002537	0.000274	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003937	0.002174	0.0167	No	8	0.002841	0.0008075	37.5	Kaplan-Meier	ln(x)	0.01	Param.

Confidence Intervals - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 4:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GC-AP-MW-8	0.01203	0.00499	0.0167	No	8	0.008509	0.00332	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.01733	0.01235	0.0167	No	8	0.01484	0.002351	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.394	0.8094	5	No	8	1.102	0.276	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.13	0.468	5	No	8	0.799	0.3123	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.7327	0.3418	5	No	8	0.5373	0.1844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.182	0.0002105	5	No	8	0.4287	0.6229	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.8074	0.2543	5	No	8	0.5218	0.3174	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.448	0.6261	5	No	8	1.037	0.3876	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	3.99	-0.365	5	No	8	0.915	1.307	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.342	0.4298	5	No	8	0.8859	0.4302	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	1.755	0.8799	5	No	8	1.317	0.4128	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.248	0.8196	5	No	8	1.034	0.2023	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	0.8033	0.3586	5	No	8	0.5876	0.2182	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.4729	-0.008802	5	No	8	0.2321	0.2272	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	0.7493	0.03068	5	No	8	0.39	0.339	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.284	0.7715	5	No	8	1.028	0.2419	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.5921	0.1443	5	No	8	0.3682	0.2112	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	1.393	-0.1663	5	No	8	0.4615	1.144	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.438	0.5497	5	No	8	1.494	0.8909	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.043	1.043	5	No	8	1.543	0.4716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.221	0.3259	5	No	8	0.7734	0.4222	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.13	0.4904	5	No	8	0.8019	0.339	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	0.9683	0.2912	5	No	8	0.6298	0.3194	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.646	0.5381	5	No	8	1.092	0.5225	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1656	0.04087	4	No	8	0.1033	0.05885	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.2575	0.2097	4	No	8	0.2336	0.02253	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1792	0.125	4	No	8	0.1521	0.02556	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2303	0.1801	4	No	9	0.2052	0.02599	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1635	0.08602	4	No	8	0.1247	0.03653	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.2599	0.1398	4	No	8	0.1999	0.05668	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1426	0.1054	4	No	8	0.124	0.01754	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.3001	0.2379	4	No	8	0.269	0.02932	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.5753	0.4122	4	No	8	0.4938	0.0769	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.1989	0.1606	4	No	8	0.1798	0.01804	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.163	0.07	4	No	8	0.09541	0.03275	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-21	0.2224	0.1791	4	No	8	0.2008	0.02043	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.05	0.05	4	No	8	0.05	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-3	0.135	0.09526	4	No	8	0.1151	0.01874	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.05	0.05	4	No	8	0.05	0	100	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.0518	0.04	4	No	8	0.04648	0.005396	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-33	0.1	0.05	4	No	8	0.06625	0.01923	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-5	0.2412	0.207	4	No	8	0.2241	0.01615	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.253	0.218	4	No	8	0.2264	0.0115	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-7	0.1011	0.07892	4	No	8	0.09001	0.01047	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.162	0.11	4	No	8	0.1181	0.01788	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.2068	0.1756	4	No	8	0.1911	0.01499	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	**GC-AP-MW-10**	**0.1218**	**0.1018**	**0.04**	**Yes**	**8**	**0.1118**	**0.009398**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-11**	**0.1261**	**0.08972**	**0.04**	**Yes**	**8**	**0.1079**	**0.01953**	**0**	**None**	**x^2**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-12**	**0.1314**	**0.05134**	**0.04**	**Yes**	**8**	**0.09138**	**0.03777**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-13**	**0.2993**	**0.06302**	**0.04**	**Yes**	**8**	**0.1812**	**0.1114**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-14**	**0.9775**	**0.5567**	**0.04**	**Yes**	**8**	**0.7639**	**0.2084**	**0**	**None**	**sqrt(x)**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-15**	**0.6057**	**0.5283**	**0.04**	**Yes**	**8**	**0.567**	**0.03648**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-16**	**0.6015**	**0.5122**	**0.04**	**Yes**	**8**	**0.5569**	**0.04211**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-17**	**0.663**	**0.534**	**0.04**	**Yes**	**8**	**0.5985**	**0.06089**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-18**	**0.4186**	**0.3349**	**0.04**	**Yes**	**8**	**0.3768**	**0.03949**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

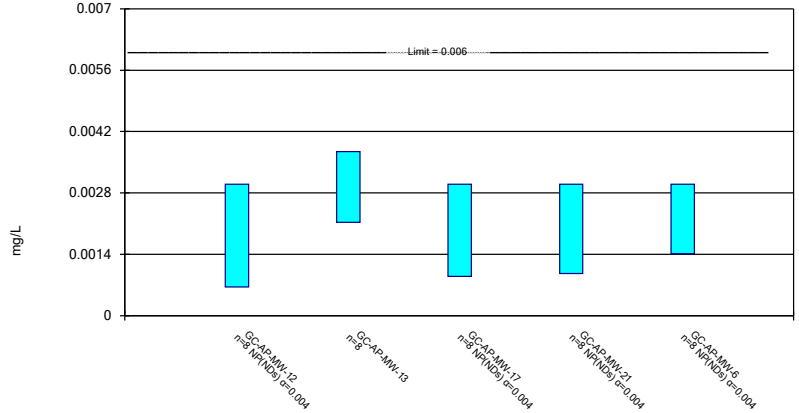
Plant Greene County Client: Southern Company Data: Greene County AP Printed 10/26/2020, 4:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**GC-AP-MW-21**	**0.09196**	**0.05354**	**0.04**	**Yes**	**8**	**0.07275**	**0.01812**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GC-AP-MW-5**	**0.1282**	**0.09573**	**0.04**	**Yes**	**8**	**0.112**	**0.01532**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	GC-AP-MW-6	0.03938	0.01471	0.04	No	8	0.02671	0.0128	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.07098	0.02714	0.04	No	8	0.04906	0.02068	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.09928	0.0293	0.04	No	8	0.06429	0.03301	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-10	0.011	0.00747	0.1	No	8	0.008388	0.001397	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-11	0.01732	0.007672	0.1	No	8	0.0125	0.00455	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.1185	0.08107	0.1	No	8	0.09976	0.01763	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.09671	0.01907	0.1	No	8	0.05624	0.04278	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01564	0.00941	0.1	No	8	0.01253	0.002941	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-17	0.08177	0.04176	0.1	No	8	0.06176	0.01887	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-21	0.07351	0.05121	0.1	No	8	0.06236	0.01052	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-5	0.003726	0.002639	0.1	No	8	0.003183	0.0005123	0	None	No	0.01	Param.
Selenium (mg/L)	GC-AP-MW-1	0.01	0.00206	0.05	No	8	0.008015	0.003676	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.01467	0.003843	0.05	No	8	0.01012	0.006207	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Thallium (mg/L)	GC-AP-MW-13	0.001249	0.0001838	0.002	No	8	0.0006918	0.000659	12.5	None	x^(1/3)	0.01	Param.
Thallium (mg/L)	GC-AP-MW-16	0.0003861	0.0002936	0.002	No	8	0.0003399	0.00004365	0	None	No	0.01	Param.

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



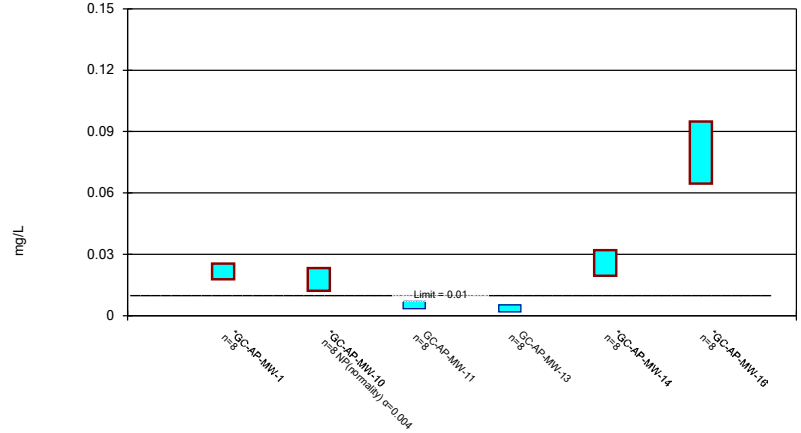
Constituent: Antimony Analysis Run 10/26/2020 4:44 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



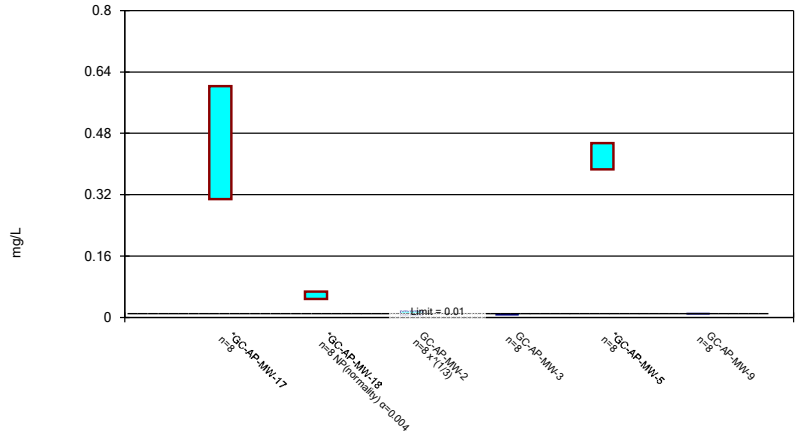
Constituent: Arsenic Analysis Run 10/26/2020 4:44 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



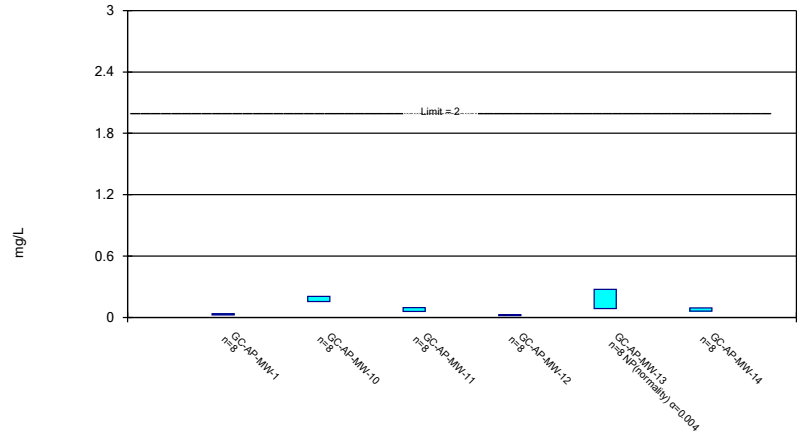
Constituent: Arsenic Analysis Run 10/26/2020 4:44 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



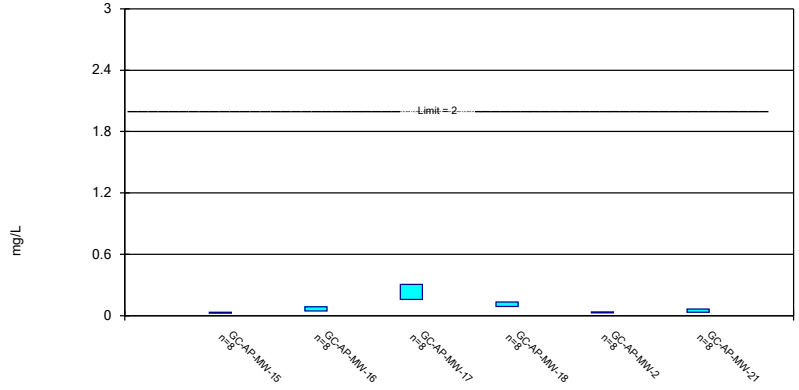
Constituent: Barium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



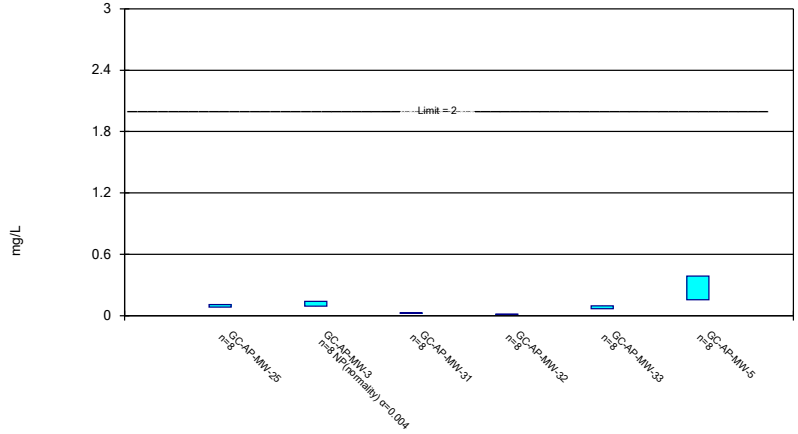
Constituent: Barium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



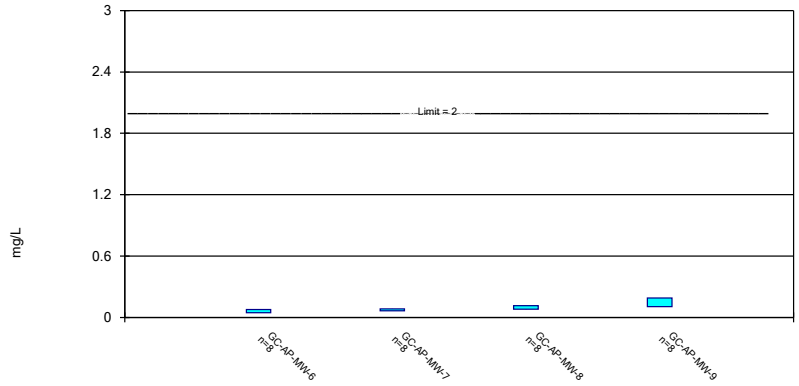
Constituent: Barium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



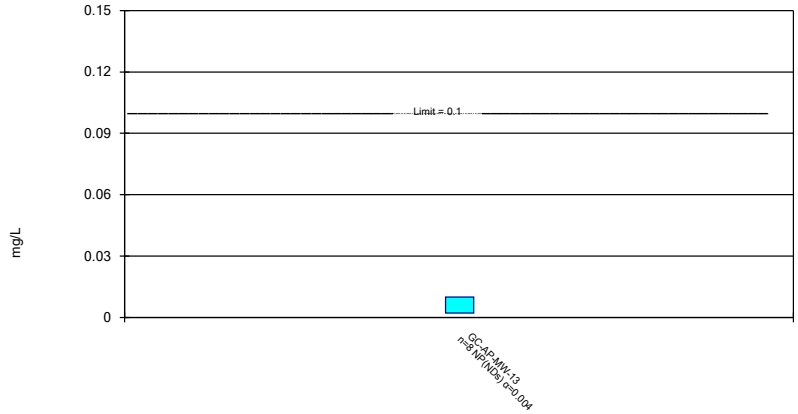
Constituent: Barium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



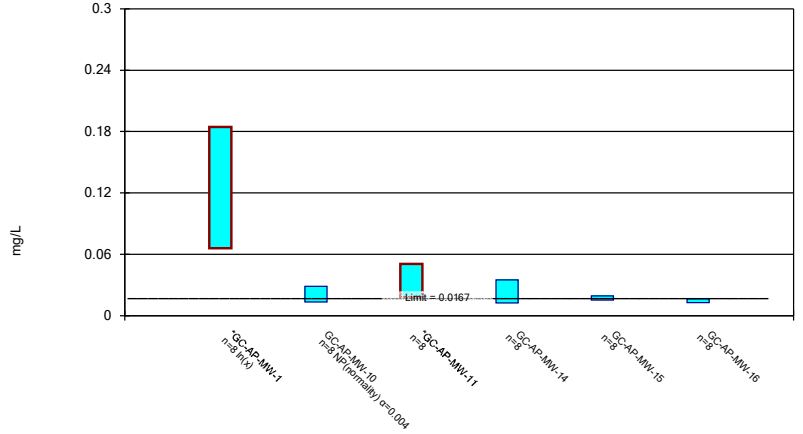
Constituent: Chromium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



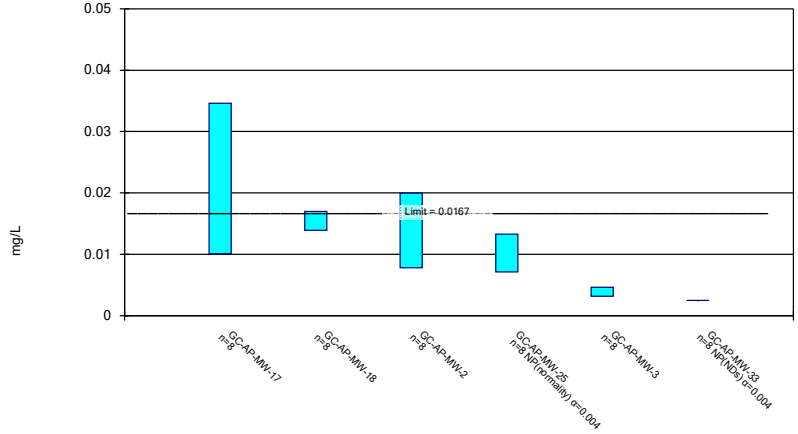
Constituent: Cobalt Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



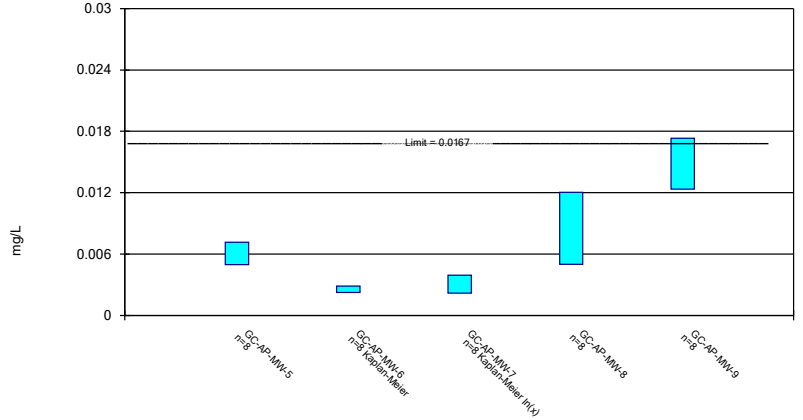
Constituent: Cobalt Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



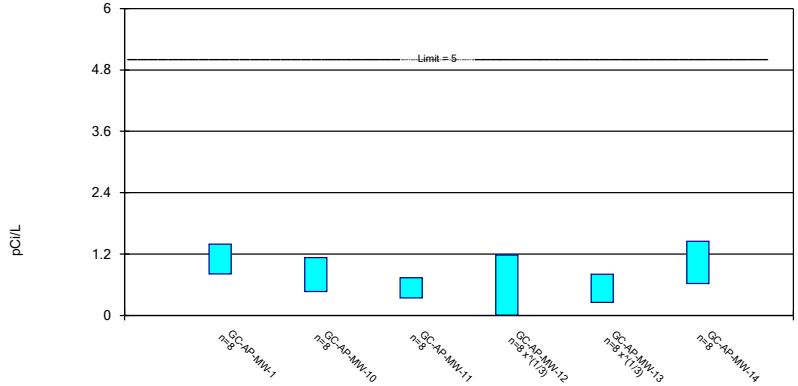
Constituent: Cobalt Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



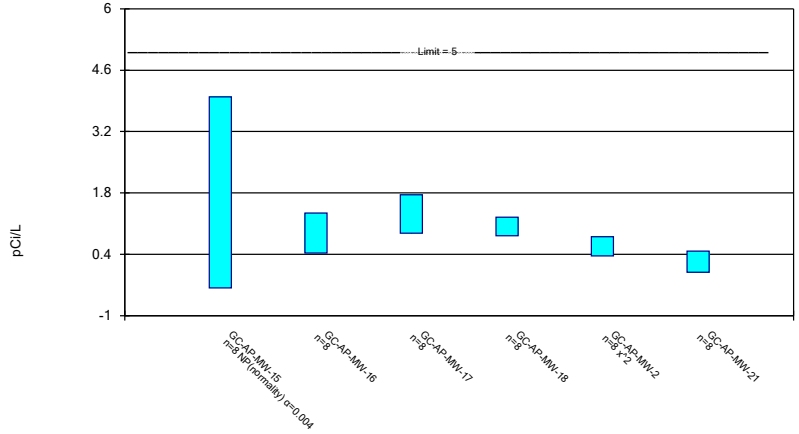
Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



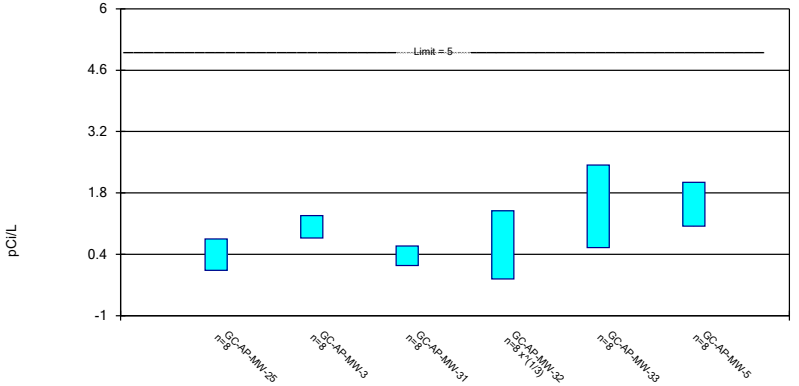
Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



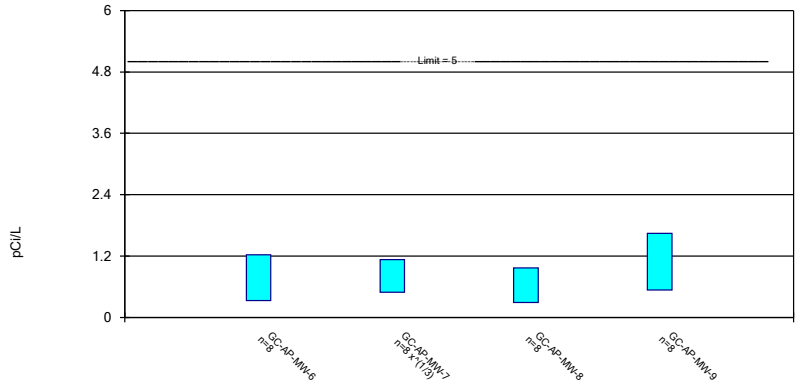
Constituent: Combined Radium 226 + 228 Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

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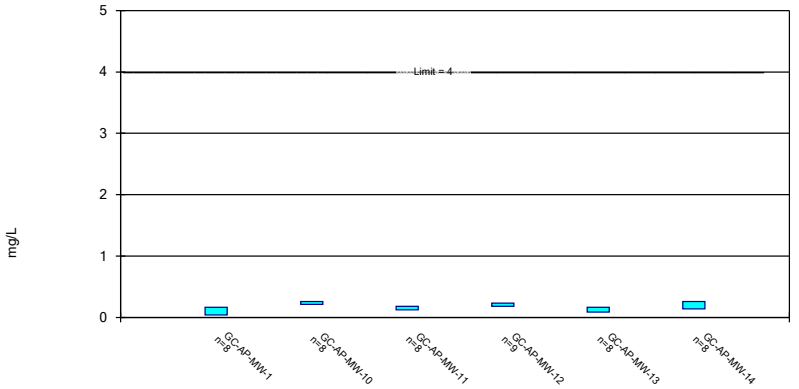


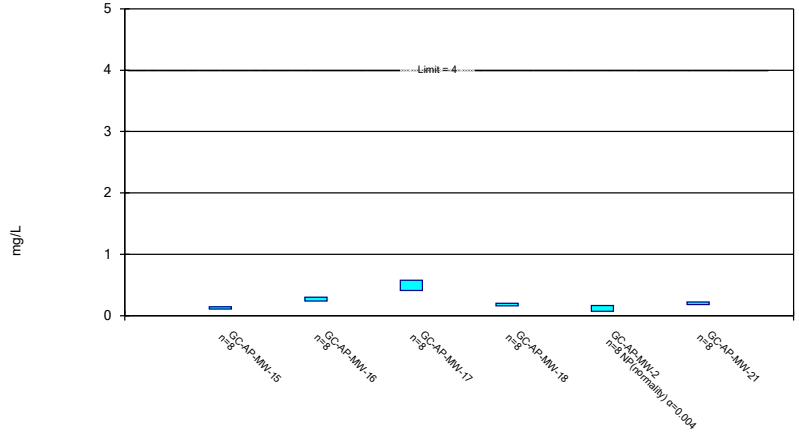
Constituent: Fluoride Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



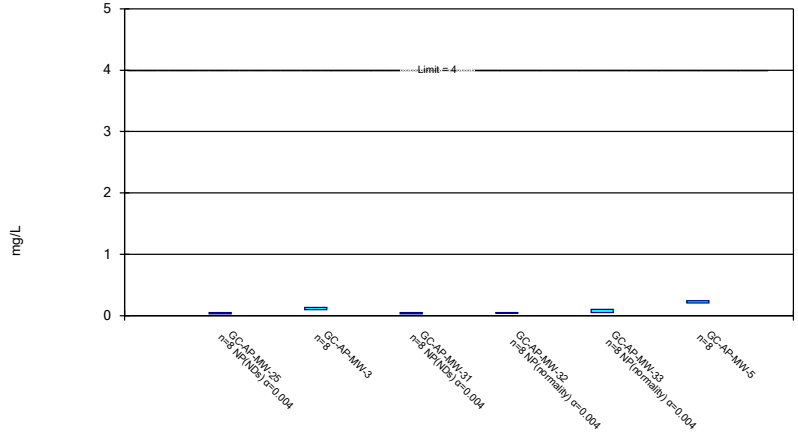
Constituent: Fluoride Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



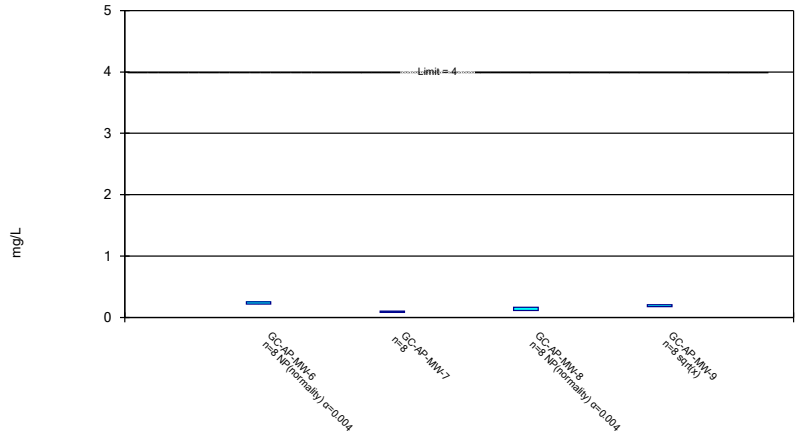
Constituent: Fluoride Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



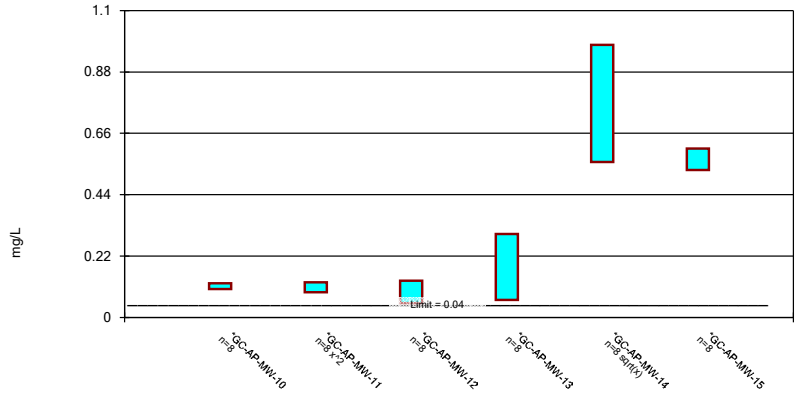
Constituent: Fluoride Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



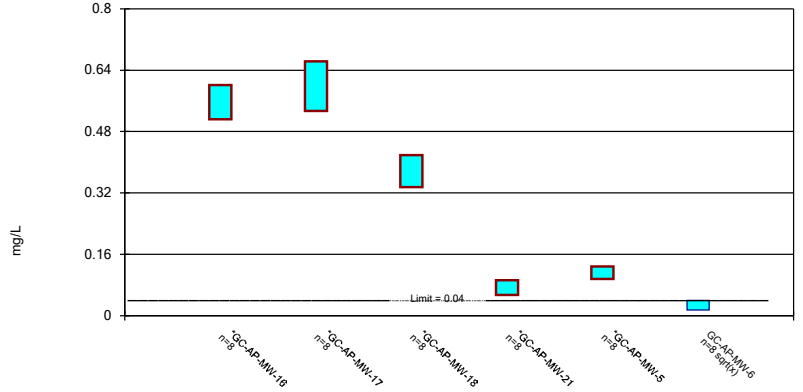
Constituent: Lithium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



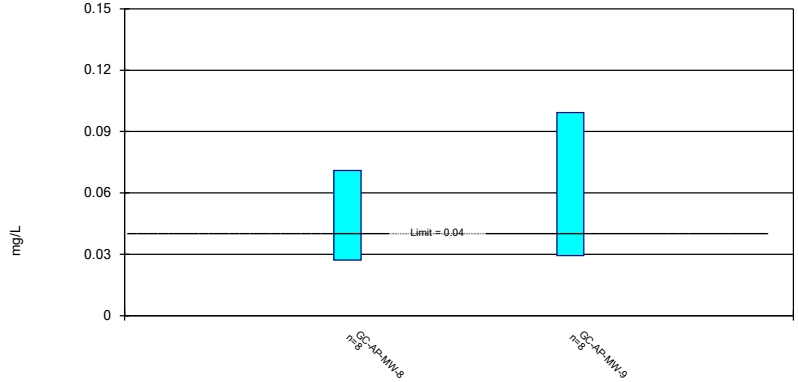
Constituent: Lithium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



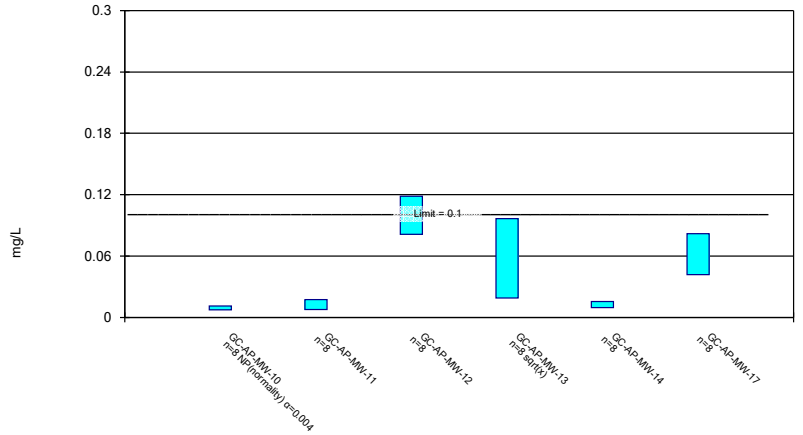
Constituent: Lithium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



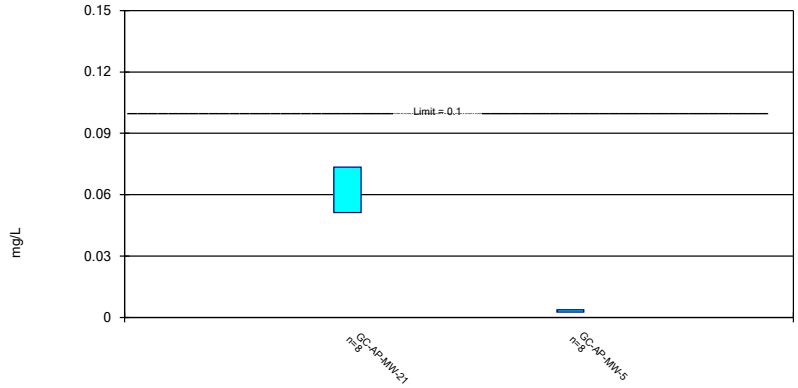
Constituent: Molybdenum Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



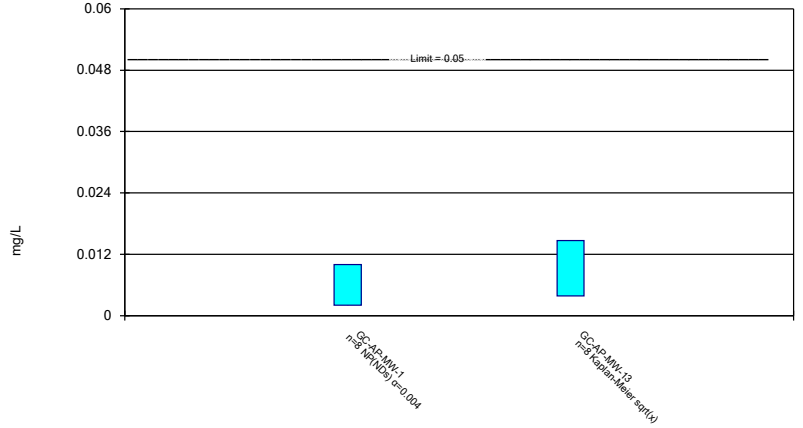
Constituent: Molybdenum Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.



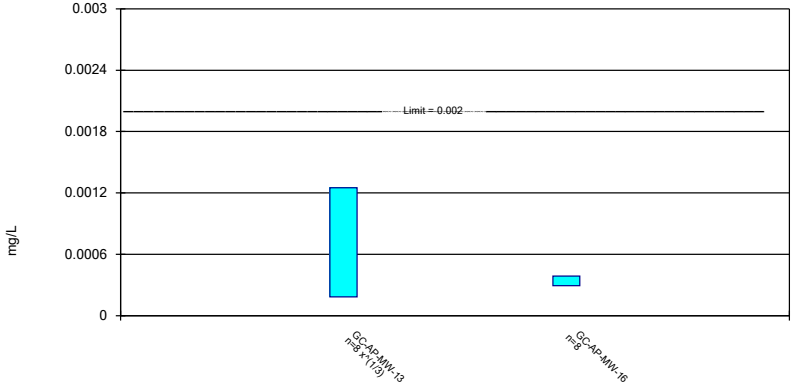
Constituent: Selenium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 10/26/2020 4:45 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017			<0.003		
6/28/2017	0.000683 (J)	0.00406		<0.003	<0.003
2/27/2018					<0.003
2/28/2018	0.000656 (J)	0.00199 (J)	<0.003	<0.003	
6/5/2018			<0.003		<0.003
6/6/2018	<0.003	0.00261 (J)		<0.003	
11/5/2018	<0.003	0.00275 (J)		<0.003	
11/6/2018			<0.003		
11/7/2018					<0.003
3/26/2019	0.00121 (J)	0.00219 (J)	0.000897 (J)	0.000964 (J)	0.00141 (J)
9/9/2019			<0.003		
9/10/2019	<0.003			<0.003	<0.003
9/11/2019		0.00261 (J)			
4/20/2020		0.00338			
4/21/2020	<0.003		<0.003	<0.003	<0.003
8/11/2020			<0.003		
8/18/2020	<0.003	0.00388		<0.003	
8/19/2020					<0.003
Mean	0.002194	0.002934	0.002737	0.002746	0.002801
Std. Dev.	0.001125	0.0007607	0.0007435	0.0007198	0.0005621
Upper Lim.	0.003	0.00374	0.003	0.003	0.003
Lower Lim.	0.000656	0.002128	0.000897	0.000964	0.00141

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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-13	GC-AP-MW-14	GC-AP-MW-16
6/27/2017	0.0165					0.0693
6/28/2017		0.0131	0.00664	0.00406 (J)	0.022	
2/27/2018	0.0201	0.0146	0.00733		0.0265	
2/28/2018				0.00278 (J)		0.0852
6/4/2018	0.0195					
6/5/2018		0.0233	0.00637			0.0648
6/6/2018				0.00352 (J)	0.0372	
11/5/2018			0.00195 (J)	0.00497 (J)		
11/6/2018	0.0189					0.0701
11/7/2018		0.0152			0.0289	
3/26/2019				0.00251 (J)		0.0952
3/27/2019	0.0267	0.014	0.00573		0.0264	
9/10/2019	0.0226	0.0132	0.00378 (J)		0.0263	0.0786
9/11/2019				0.00664		
4/20/2020				0.00181 (J)		0.105
4/21/2020	0.0219				0.0178	
4/22/2020		0.0121	0.00616			
8/11/2020					0.0207	0.0698
8/17/2020	0.0265					
8/18/2020		0.0121	0.00457 (J)	0.00176 (J)		
Mean	0.02159	0.0147	0.005316	0.003506	0.02573	0.07975
Std. Dev.	0.003607	0.003646	0.001775	0.001678	0.005917	0.0143
Upper Lim.	0.02541	0.0233	0.007197	0.005285	0.032	0.09491
Lower Lim.	0.01776	0.0121	0.003435	0.001727	0.01945	0.06459

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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-3	GC-AP-MW-5	GC-AP-MW-9
6/27/2017	0.489	0.0672				
6/28/2017			0.00848	0.00745	0.353	0.00718
2/27/2018			0.0106	0.00699	0.425	0.00946
2/28/2018	0.532	0.063				
6/4/2018			0.0124	0.00731		
6/5/2018	0.382	0.0661			0.454	0.00921
11/6/2018	0.299	0.0509	0.0085	0.00685	0.432	
11/7/2018						0.0098
3/26/2019	0.32	0.0477				0.00969
3/27/2019			0.0101	0.00596	0.455	
9/9/2019	0.356	0.0498	0.022	0.00806		
9/10/2019						0.0108
9/11/2019					0.406	
4/20/2020				0.00751		
4/21/2020	0.689	0.0478	0.013		0.42	0.0102
8/11/2020	0.581					
8/12/2020		0.0485			0.415	
8/17/2020			0.00768	0.00909		
8/18/2020						0.0108
Mean	0.456	0.05513	0.0116	0.007403	0.42	0.009643
Std. Dev.	0.1391	0.008678	0.004609	0.0009148	0.0322	0.001153
Upper Lim.	0.6034	0.0672	0.01593	0.008372	0.4541	0.01086
Lower Lim.	0.3086	0.0477	0.007456	0.006433	0.3859	0.008421

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017	0.0348					
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	
6/4/2018	0.0314					
6/5/2018		0.173	0.0643			
6/6/2018				0.0204	0.0951	0.064
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	
Mean	0.03001	0.1794	0.07676	0.02275	0.1351	0.07708
Std. Dev.	0.006596	0.02361	0.01648	0.00457	0.06656	0.01439
Upper Lim.	0.037	0.2044	0.09423	0.02759	0.275	0.09233
Lower Lim.	0.02302	0.1544	0.05929	0.01791	0.0874	0.06182

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017	0.0223	0.042	0.139	0.12		
6/28/2017					0.0273	0.0352
2/27/2018					0.0292	
2/28/2018	0.0271	0.0595	0.199	0.143		0.0376
6/4/2018					0.0298	
6/5/2018	0.0269	0.0471	0.149	0.128		
6/6/2018						0.0355
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
Mean	0.02943	0.06636	0.2308	0.1115	0.03151	0.04888
Std. Dev.	0.004642	0.01949	0.06972	0.01979	0.003543	0.01375
Upper Lim.	0.03435	0.08702	0.3046	0.1325	0.03527	0.06345
Lower Lim.	0.0245	0.0457	0.1569	0.09054	0.02776	0.0343

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017			0.0238	0.0127	0.0679	
6/28/2017	0.0829	0.104				0.48
2/27/2018		0.0989	0.0231	0.0135	0.0856	0.269
2/28/2018	0.0958					
6/4/2018		0.0936				
6/5/2018			0.0228	0.0126	0.0875	0.27
6/6/2018	0.0892					
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				
Mean	0.09509	0.1055	0.02468	0.01315	0.08116	0.2714
Std. Dev.	0.0115	0.01513	0.002431	0.0007597	0.01357	0.1099
Upper Lim.	0.1073	0.139	0.02725	0.01396	0.09555	0.3878
Lower Lim.	0.0829	0.0936	0.0221	0.01234	0.06678	0.1549

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/28/2017	0.0402	0.0582	0.0935	0.0897
2/27/2018	0.0463	0.0669	0.0808	0.118
6/5/2018	0.051	0.0672	0.0789	0.111
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	
Mean	0.06106	0.07404	0.09685	0.1476
Std. Dev.	0.01527	0.009683	0.01596	0.03933
Upper Lim.	0.07725	0.0843	0.1138	0.1893
Lower Lim.	0.04488	0.06377	0.07993	0.1059

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-13
6/28/2017	0.00219 (J)
2/28/2018	<0.01
6/6/2018	<0.01
11/5/2018	<0.01
3/26/2019	<0.01
9/11/2019	<0.01
4/20/2020	<0.01
8/18/2020	<0.01
Mean	0.009024
Std. Dev.	0.002761
Upper Lim.	0.01
Lower Lim.	0.00219

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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-14	GC-AP-MW-15	GC-AP-MW-16
6/27/2017	0.0664				0.0163	0.0141
6/28/2017		0.0134	0.0664	0.00805 (J)		
2/27/2018	0.0652	0.0148	0.0438	0.016		
2/28/2018					0.0157	0.014
6/4/2018	0.0758					
6/5/2018		0.0139	0.036		0.0148	0.0114
6/6/2018				0.024		
11/5/2018			0.0171			
11/6/2018	0.0898				0.0158	0.0141
11/7/2018		0.015		0.0124		
3/26/2019					0.0184	0.0177
3/27/2019	0.176	0.014	0.0292	0.0303		
9/10/2019	0.104	0.0191	0.02	0.0278	0.0201	0.0162
4/20/2020					0.0189	0.0146
4/21/2020	0.206			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			
Mean	0.1223	0.01778	0.03428	0.02372	0.0173	0.01461
Std. Dev.	0.0599	0.005563	0.01547	0.01057	0.001885	0.001825
Upper Lim.	0.1844	0.0287	0.05068	0.03492	0.0193	0.01655
Lower Lim.	0.0658	0.0134	0.01787	0.01252	0.0153	0.01268

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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-25	GC-AP-MW-3	GC-AP-MW-33
6/27/2017	0.0166	0.0144				0.00247 (J)
6/28/2017			0.0102	0.00721 (J)	0.00336 (J)	
2/27/2018			0.00924 (J)		0.00442 (J)	<0.005
2/28/2018	0.0251	0.0136		0.00771 (J)		
6/4/2018			0.00866 (J)		0.0038 (J)	
6/5/2018	0.0456	0.0138				<0.005
6/6/2018				0.00712 (J)		
11/6/2018	0.0321	0.0158	0.0101	0.00791	0.00439 (J)	<0.005
3/26/2019	0.0192	0.0161				
3/27/2019			0.0131	0.0114	0.00463 (J)	<0.005
9/9/2019	0.0121	0.0174	0.0154		0.00413 (J)	
9/10/2019				0.0127		
9/11/2019						<0.005
4/20/2020					0.00396 (J)	
4/21/2020	0.0158	0.0173	0.0194			
4/22/2020				0.0133		<0.005
8/11/2020	0.0122			0.0126		
8/12/2020		0.0152				<0.005
8/17/2020			0.0249		<0.005	
Mean	0.02234	0.01545	0.01388	0.009994	0.003899	0.002496
Std. Dev.	0.01157	0.001468	0.00575	0.002741	0.000693	1.061E-05
Upper Lim.	0.0346	0.01701	0.01997	0.0133	0.004633	0.0025
Lower Lim.	0.01007	0.01389	0.00778	0.00712	0.003164	0.00247

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
6/28/2017	0.0069 (J)	<0.005	<0.005	0.0137	0.0125
2/27/2018	0.00471 (J)	<0.005	<0.005	0.00698 (J)	0.013
6/5/2018	0.00481 (J)	0.00237 (J)	<0.005	0.00478 (J)	0.0113
11/6/2018	0.00545				
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
3/27/2019	0.00614				
9/10/2019		0.00306 (J)	0.0034 (J)	0.0108	0.0177
9/11/2019	0.00767				
4/21/2020	0.00601	0.00228 (J)	0.00206 (J)	0.0111	0.0166
8/12/2020	0.00678				
8/18/2020					0.0164
8/19/2020		0.00278 (J)	0.0046 (J)	0.00975	
Mean	0.006059	0.002537	0.002841	0.008509	0.01484
Std. Dev.	0.001041	0.000274	0.0008075	0.00332	0.002351
Upper Lim.	0.007162	0.002863	0.003937	0.01203	0.01733
Lower Lim.	0.004956	0.002237	0.002174	0.00499	0.01235

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017	1.32					
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				
6/4/2018	1.01					
6/5/2018		0.698	0.244 (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					
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)	
Mean	1.102	0.799	0.5373	0.4287	0.5218	1.037
Std. Dev.	0.276	0.3123	0.1844	0.6229	0.3174	0.3876
Upper Lim.	1.394	1.13	0.7327	1.182	0.8074	1.448
Lower Lim.	0.8094	0.468	0.3418	0.0002105	0.2543	0.6261

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017	0.793	1.25	1.51	1.17		
6/28/2017					0.374	0.228 (U)
2/27/2018				0.702	0.334 (U)	0.293 (U)
2/28/2018	3.99	1.17	1.05			
6/4/2018					0.64	
6/5/2018	-0.365 (U)	0.337 (U)	1.07	0.999		
6/6/2018						-0.056 (U)
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)
Mean	0.915	0.8859	1.317	1.034	0.5876	0.2321
Std. Dev.	1.307	0.4302	0.4128	0.2023	0.2182	0.2272
Upper Lim.	3.99	1.342	1.755	1.248	0.8033	0.4729
Lower Lim.	-0.365	0.4298	0.8799	0.8196	0.3586	-0.008802

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017			0.412	-0.111 (U)	0.937	
6/28/2017	0.333	0.867				2.24
2/27/2018	1.08	0.905	0.314 (U)	0.146 (U)	0.475	1.01
6/4/2018		0.954				
6/5/2018			0.218 (U)	-0.128 (U)	1.65	1.39
6/6/2018	0.016 (U)					
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				
Mean	0.39	1.028	0.3682	0.4615	1.494	1.543
Std. Dev.	0.339	0.2419	0.2112	1.144	0.8909	0.4716
Upper Lim.	0.7493	1.284	0.5921	1.393	2.438	2.043
Lower Lim.	0.03068	0.7715	0.1443	-0.1663	0.5497	1.043

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/28/2017	0.724	0.526	0.908	0.821
2/27/2018	0.214 (U)	0.803		
2/28/2018			0.131 (U)	0.232 (U)
6/5/2018	0.176 (U)	0.577	0.564	0.722
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)	
Mean	0.7734	0.8019	0.6298	1.092
Std. Dev.	0.4222	0.339	0.3194	0.5225
Upper Lim.	1.221	1.13	0.9683	1.646
Lower Lim.	0.3259	0.4904	0.2912	0.5381

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017	0.04 (J)					
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)					
2/27/2018	0.07 (J)	0.26	0.14			0.13
2/28/2018				0.19	0.14	
6/4/2018	0.07 (J)					
6/5/2018		0.24	0.16			
6/6/2018				0.19	0.13	0.15
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	
Mean	0.1033	0.2336	0.1521	0.2052	0.1247	0.1999
Std. Dev.	0.05885	0.02253	0.02556	0.02599	0.03653	0.05668
Upper Lim.	0.1656	0.2575	0.1792	0.2303	0.1635	0.2599
Lower Lim.	0.04087	0.2097	0.125	0.1801	0.08602	0.1398

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017	0.1	0.22	0.38	0.18		
6/28/2017					0.09 (J)	0.18
8/29/2017						0.23
8/30/2017	0.13	0.28	0.38	0.21	0.07 (J)	
2/27/2018					0.08 (J)	
2/28/2018	0.09 (J)	0.23	0.58	0.17		0.2
6/4/2018					0.09 (J)	
6/5/2018	0.13	0.28	0.41	0.17		
6/6/2018						0.19
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
Mean	0.124	0.269	0.4938	0.1798	0.09541	0.2008
Std. Dev.	0.01754	0.02932	0.0769	0.01804	0.03275	0.02043
Upper Lim.	0.1426	0.3001	0.5753	0.1989	0.163	0.2224
Lower Lim.	0.1054	0.2379	0.4122	0.1606	0.07	0.1791

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017			0.05 (J)	0.04 (J)	0.07 (J)	
6/28/2017	0.04 (J)	0.1				0.21
8/29/2017	<0.1					
8/30/2017		0.12	<0.1	0.04 (J)	0.08 (J)	0.25
2/27/2018		0.09 (J)	<0.1	0.04 (J)	0.07 (J)	0.23
2/28/2018	<0.1					
6/4/2018		0.1				
6/5/2018			<0.1	0.04 (J)	0.1	0.24
6/6/2018	<0.1					
11/5/2018				<0.1		
11/6/2018	<0.1	0.1	<0.1		0.08 (J)	0.22
3/27/2019	<0.1	0.13	<0.1	<0.1	<0.1	0.208
9/9/2019		0.121				
9/10/2019	<0.1					
9/11/2019			<0.1	0.0518 (J)	<0.1	0.2
4/20/2020		0.112				
4/21/2020						0.224
4/22/2020	<0.1		<0.1	<0.1	<0.1	
8/11/2020	<0.1		<0.1			
8/12/2020				<0.1	<0.1	0.221
8/17/2020		0.148				
Mean	0.05	0.1151	0.05	0.04648	0.06625	0.2241
Std. Dev.	0	0.01874	0	0.005396	0.01923	0.01615
Upper Lim.	0.05	0.135	0.05	0.0518	0.1	0.2412
Lower Lim.	0.05	0.09526	0.05	0.04	0.05	0.207

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/28/2017	0.18	0.08 (J)	0.09 (J)	0.16
8/29/2017	0.22	0.09 (J)	0.11	0.19
2/27/2018	0.22	0.08 (J)	0.11	0.19
6/5/2018	0.23	0.08 (J)	0.11	0.19
11/7/2018	0.22	0.08 (J)	0.11	0.2
3/26/2019	0.253	0.106	0.162	0.223
9/10/2019	0.227	0.086 (J)	0.113	0.178
4/21/2020	0.218	0.0951 (J)	0.114	0.181
8/18/2020				0.177
8/19/2020	0.223	0.103	0.116	
Mean	0.2264	0.09001	0.1181	0.1911
Std. Dev.	0.0115	0.01047	0.01788	0.01499
Upper Lim.	0.253	0.1011	0.162	0.2068
Lower Lim.	0.218	0.07892	0.11	0.1756

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017						0.558
6/28/2017	0.0954	0.109	0.126	0.146	0.626	
2/27/2018	0.111	0.11			0.562	
2/28/2018			0.0786	0.0738		0.571
6/5/2018	0.104	0.102				0.492
6/6/2018			0.067	0.148	1.06	
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		
Mean	0.1118	0.1079	0.09138	0.1812	0.7639	0.567
Std. Dev.	0.009398	0.01953	0.03777	0.1114	0.2084	0.03648
Upper Lim.	0.1218	0.1261	0.1314	0.2993	0.9775	0.6057
Lower Lim.	0.1018	0.08972	0.05134	0.06302	0.5567	0.5283

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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
6/27/2017	0.523	0.597	0.451			
6/28/2017				0.0962	0.0879	0.0403 (J)
2/27/2018					0.113	0.0201 (J)
2/28/2018	0.544	0.73	0.343	0.0594		
6/5/2018	0.49	0.531	0.353		0.101	0.0218 (J)
6/6/2018				0.0469 (J)		
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)
Mean	0.5569	0.5985	0.3768	0.07275	0.112	0.02671
Std. Dev.	0.04211	0.06089	0.03949	0.01812	0.01532	0.0128
Upper Lim.	0.6015	0.663	0.4186	0.09196	0.1282	0.03938
Lower Lim.	0.5122	0.534	0.3349	0.05354	0.09573	0.01471

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-8	GC-AP-MW-9
6/28/2017	0.0401 (J)	0.0345 (J)
2/27/2018	0.0309 (J)	0.0349 (J)
6/5/2018	0.0286 (J)	0.0338 (J)
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	
Mean	0.04906	0.06429
Std. Dev.	0.02068	0.03301
Upper Lim.	0.07098	0.09928
Lower Lim.	0.02714	0.0293

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

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-17
6/27/2017						0.0702
6/28/2017	0.0102	0.00616 (J)	0.109	0.0598	0.00752 (J)	
2/27/2018	0.011	0.00962 (J)			0.0121	
2/28/2018			0.0903	0.0346		0.0957
6/5/2018	0.00752 (J)	0.00984 (J)				0.0363
6/6/2018			0.0757	0.0253	0.0101	
11/5/2018		0.00944 (J)	0.0906	0.044		
11/6/2018						0.0418
11/7/2018	0.00748 (J)				0.0155	
3/26/2019			0.11	0.0262		0.062
3/27/2019	0.00778 (J)	0.0151			0.0167	
9/9/2019						0.0681
9/10/2019	0.00757 (J)	0.0205	0.134		0.0125	
9/11/2019				0.0226		
4/20/2020				0.0924		
4/21/2020			0.0947		0.0141	0.0694
4/22/2020	0.00747 (J)	0.0147				
8/11/2020					0.0117	0.0506
8/18/2020	0.00808 (J)	0.0146	0.0938	0.145		
Mean	0.008388	0.0125	0.09976	0.05624	0.01253	0.06176
Std. Dev.	0.001397	0.00455	0.01763	0.04278	0.002941	0.01887
Upper Lim.	0.011	0.01732	0.1185	0.09671	0.01564	0.08177
Lower Lim.	0.00747	0.007672	0.08107	0.01907	0.00941	0.04176

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-5
6/28/2017	0.0833	0.00356 (J)
2/27/2018		0.0042 (J)
2/28/2018	0.0643	
6/5/2018		0.00293 (J)
6/6/2018	0.0579	
11/5/2018	0.0548	
11/6/2018		0.00318 (J)
3/26/2019	0.071	
3/27/2019		0.00284 (J)
9/10/2019	0.0609	
9/11/2019		0.00328 (J)
4/21/2020	0.0562	0.00255 (J)
8/12/2020		0.00292 (J)
8/18/2020	0.0505	
Mean	0.06236	0.003183
Std. Dev.	0.01052	0.0005123
Upper Lim.	0.07351	0.003726
Lower Lim.	0.05121	0.002639

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-13
6/27/2017	0.00206 (J)	
6/28/2017		0.0072 (J)
2/27/2018	0.00206 (J)	
2/28/2018		0.00826 (J)
6/4/2018	<0.01	
6/6/2018		0.00496 (J)
11/5/2018		<0.01
11/6/2018	<0.01	
3/26/2019		0.0239
3/27/2019	<0.01	
9/10/2019	<0.01	
9/11/2019		<0.01
4/20/2020		0.0125
4/21/2020	<0.01	
8/17/2020	<0.01	
8/18/2020		0.00416 (J)
Mean	0.008015	0.01012
Std. Dev.	0.003676	0.006207
Upper Lim.	0.01	0.01467
Lower Lim.	0.00206	0.003843

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/26/2020 4:49 PM View: Appendix IV

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-13	GC-AP-MW-16
6/27/2017		0.000301 (J)
6/28/2017	0.000244 (J)	
2/28/2018	<0.001	0.000321 (J)
6/5/2018		0.000288 (J)
6/6/2018	0.000239 (J)	
11/5/2018	0.000623 (J)	
11/6/2018		0.000354 (J)
3/26/2019	0.000215 (J)	0.00041 (J)
9/10/2019		0.000396 (J)
9/11/2019	0.00214	
4/20/2020	0.000433 (J)	0.00032 (J)
8/11/2020		0.000329 (J)
8/18/2020	0.00114	
Mean	0.0006918	0.0003399
Std. Dev.	0.000659	4.365E-05
Upper Lim.	0.001249	0.0003861
Lower Lim.	0.0001838	0.0002936

Appendix F

MNA SAMPLING FIELD DATA

Well ID	Designation	pH	ORP (mV)	Conductivity (µS/cm)	DO (mg/L)	Temperature (°C)	Turbidity (NTU)	Depth to Water (feet)
GC-AP-MW-1	Downgradient	5.66	39	1589.4	1.01	20.03	0.35	15.69
GC-AP-MW-5	Downgradient	6.53	-85.3	703	0.55	20	0.55	10.3
GC-AP-MW-10	Downgradient	6.38	-43.3	501.4	0.25	21.14	0.4	4.85
GC-AP-MW-11	Upgradient	6.43	4.9	386.4	0.69	21.75	0.13	15.33
GC-AP-MW-14	Downgradient	6.53	-64.6	1002.1	0.23	20.04	1.93	3.9
GC-AP-MW-15	Downgradient	6.18	73.3	497.3	0.75	19.19	0.4	12.92
GC-AP-MW-16	Downgradient	6.43	-34.1	755.3	0.14	19.62	4.96	29.48
GC-AP-MW-17	Downgradient	6.54	-83.2	858.9	0.11	19.95	4.35	26.31
GC-AP-MW-18	Downgradient	6.36	-26.2	764.5	0.15	19.94	1.63	25.65
GC-AP-MW-23	Upgradient	6.45	101.9	180.9	6.02	17.44	0.83	12.87
GC-AP-MW-24	Upgradient	5.29	148.7	289.8	4.79	19.41	16.23	0.18
GC-AP-MW-26	Upgradient	5.67	76.6	44.1	6.74	18.87	0.51	5.35
GC-AP-MW-27	Upgradient	4.9	119.5	32	7.66	18.7	0.68	7.24
GC-AP-MW-28	Upgradient	4.94	110.3	48.2	8.2	17.99	0.51	6.93
GC-AP-MW-29	Upgradient	5.13	213.1	18.5	8.88	17.76	6.34	5.75
GC-AP-MW-30	Upgradient	5.12	224	31.1	4.38	17.91	0.79	7.64

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

Analytical Report

Alabama Power

Sample Group : WMWGREAP_1271

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

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

Attention : Brooks, Dyer, Redwine, Mitchell, & Vlassopoulos

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

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

Alabama Power

April 22, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between March 31, 2020 and April 01, 2020. 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, 2020

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

Sincerely,

Quality Control: Laura Midkiff

Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power Company, ou=Environmental Affairs, email=lbmidkif@southernco.com, c=US
Date: 2020.04.22 12:13:58 -05'00'

Supervision: T. Durant Maske

Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama Power Company, ou=Environmental Affairs, email=tdmaske@southernco.com, c=US
Date: 2020.04.23 13:42:20 -05'00'

NELAP ACCREDITED TNI LABORATORY

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.

Alabama Power Lab & Field SERVICES

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

Case Narrative

Alabama Power

Total Metals ICP

Greene County Ash Pond

WMWGREAP_1271

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA06056	669760	WMWGREAP_1271
BA06057	669760	WMWGREAP_1271
BA06058	669760	WMWGREAP_1271
BA06059	669760	WMWGREAP_1271
BA06060	669760	WMWGREAP_1271
BA06061	669760	WMWGREAP_1271
BA06157	669760	WMWGREAP_1271
BA06158	669760	WMWGREAP_1271
BA06159	669760	WMWGREAP_1271
BA06160	669760	WMWGREAP_1271
BA06161	669761	WMWGREAP_1271
BA06162	669761	WMWGREAP_1271
BA06163	669761	WMWGREAP_1271
BA06164	669761	WMWGREAP_1271
BA06165	669761	WMWGREAP_1271
BA06166	669761	WMWGREAP_1271
BA06167	669761	WMWGREAP_1271
BA06168	669761	WMWGREAP_1271
BA06169	669761	WMWGREAP_1271
BA06170	669761	WMWGREAP_1271
BA06171	669762	WMWGREAP_1271

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 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.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The high standard readbacks associated with EPA 200.7 were within acceptance criteria.
- 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 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. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Sample ID	Analyte	Dilution Factor
BA06056	Ca, Na, Fe	101.5
BA06057	Ca, Fe	20.3
BA06059	Ca, Fe	20.3
BA06157	Ca	20.3
BA06158	Ca, Fe	20.3
BA06162	Ca, Na, Fe	20.3
BA06163	Ca, Na, Fe	20.3
BA06164	Ca, Fe	20.3
BA06165	Ca, Na, Fe	20.3

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

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

Case Narrative

Alabama Power

Dissolved Metals ICP

Greene County Ash Pond

WMWGREAP_1271

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA06056	669763	WMWGREAP_1271
BA06057	669763	WMWGREAP_1271
BA06058	669763	WMWGREAP_1271
BA06059	669763	WMWGREAP_1271
BA06060	669763	WMWGREAP_1271
BA06157	669763	WMWGREAP_1271
BA06158	669763	WMWGREAP_1271
BA06159	669763	WMWGREAP_1271
BA06160	669763	WMWGREAP_1271
BA06161	669763	WMWGREAP_1271
BA06162	669764	WMWGREAP_1271
BA06163	669764	WMWGREAP_1271
BA06164	669764	WMWGREAP_1271
BA06165	669764	WMWGREAP_1271
BA06166	669764	WMWGREAP_1271
BA06167	669764	WMWGREAP_1271
BA06168	669764	WMWGREAP_1271
BA06169	669764	WMWGREAP_1271

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 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 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 high standard readbacks associated with EPA 200.7 were within acceptance criteria.
- 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:

Sample ID	Analyte	Dilution Factor
BA06056	Fe	101.5
BA06057	Fe	101.5
BA06059	Fe	101.5
BA06158	Fe	101.5
BA06162	Fe	101.5
BA06163	Fe	101.5
BA06164	Fe	101.5
BA06165	Fe	101.5

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

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

Case Narrative

Alabama Power

Total Metals ICPMS

Greene County Ash Pond

WMWGREAP_1271

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA06056	670122	WMWGREAP_1271
BA06057	670122	WMWGREAP_1271
BA06058	670122	WMWGREAP_1271
BA06059	670122	WMWGREAP_1271
BA06060	670122	WMWGREAP_1271
BA06061	670122	WMWGREAP_1271
BA06157	670122	WMWGREAP_1271
BA06158	670122	WMWGREAP_1271
BA06159	670122	WMWGREAP_1271
BA06160	670122	WMWGREAP_1271
BA06161	670123	WMWGREAP_1271
BA06162	670123	WMWGREAP_1271
BA06163	670123	WMWGREAP_1271
BA06164	670123	WMWGREAP_1271
BA06165	670123	WMWGREAP_1271
BA06166	670123	WMWGREAP_1271
BA06167	670123	WMWGREAP_1271
BA06168	670123	WMWGREAP_1271
BA06169	670123	WMWGREAP_1271
BA06170	670123	WMWGREAP_1271
BA06171	670124	WMWGREAP_1271

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.

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:

Sample ID	Analyte	Dilution Factor
BA06056	Mn	19.285
BA06057	Mn	5.075
BA06058	Mn	5.075
BA06059	Mn	5.075
BA06157	Mn	5.075
BA06158	Mn & As	5.075
BA06162	Mn & As	5.075
BA06163	Mn & As	5.075
BA06164	Mn	5.075
BA06165	Mn	5.075

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

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

Case Narrative

Alabama Power

Dissolved Metals ICPMS

Greene County Ash Pond

WMWGREAP_1271

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA06056	670045	WMWGREAP_1271
BA06057	670045	WMWGREAP_1271
BA06058	670045	WMWGREAP_1271
BA06059	670045	WMWGREAP_1271
BA06060	670045	WMWGREAP_1271
BA06157	670045	WMWGREAP_1271
BA06158	670045	WMWGREAP_1271
BA06159	670045	WMWGREAP_1271
BA06160	670045	WMWGREAP_1271
BA06161	670045	WMWGREAP_1271
BA06162	670046	WMWGREAP_1271
BA06163	670046	WMWGREAP_1271
BA06164	670046	WMWGREAP_1271
BA06165	670046	WMWGREAP_1271
BA06166	670046	WMWGREAP_1271
BA06167	670046	WMWGREAP_1271
BA06168	670046	WMWGREAP_1271
BA06169	670046	WMWGREAP_1271

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.

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:

Sample ID	Analyte	Dilution Factor
BA06056	Mn	19.285
BA06057	Mn	5.075
BA06058	Mn	5.075
BA06059	Mn	5.075
BA06157	Mn	5.075
BA06158	Mn & As	5.075
BA06162	Mn & As	5.075
BA06163	Mn & As	5.075
BA06164	Mn	5.075
BA06165	Mn	5.075

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

Case Narrative

Anions

Greene County Ash Pond

WMWGREAP_1271

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA06056	669731, 669732, & 669774	WMWGREAP_1271
BA06057	669731, 669732, & 669774	WMWGREAP_1271
BA06058	669731, 669732, & 669774	WMWGREAP_1271
BA06059	669731, 669732, & 669774	WMWGREAP_1271
BA06060	669731, 669732, & 669774	WMWGREAP_1271
BA06061	669731, 669732, & 669774	WMWGREAP_1271
BA06157	670130, 670132, & 670134	WMWGREAP_1271
BA06158	670130, 670132, & 670134	WMWGREAP_1271
BA06159	670130, 670132, & 670134	WMWGREAP_1271
BA06160	670130, 670132, & 670134	WMWGREAP_1271
BA06161	670130, 670132, & 670134	WMWGREAP_1271
BA06162	670130, 670132, & 670134	WMWGREAP_1271
BA06163	670130, 670132, & 670134	WMWGREAP_1271
BA06164	670130, 670132, & 670134	WMWGREAP_1271
BA06165	670130, 670132, & 670134	WMWGREAP_1271
BA06166	670130, 670132, & 670134	WMWGREAP_1271
BA06167	670131, 670133, & 670135	WMWGREAP_1271
BA06168	670131, 670133, & 670135	WMWGREAP_1271
BA06169	670131, 670133, & 670135	WMWGREAP_1271
BA06170	670131, 670133, & 670135	WMWGREAP_1271
BA06171	670131, 670133, & 670135	WMWGREAP_1271

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 half 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 was analyzed with each batch. Acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. 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:

Sample ID	Analyte	Dilution Factor
BA06056	Sulfate	40
BA06057	Sulfate	4
BA06058	Sulfate	4
BA06059	Sulfate	16
BA06060	Sulfate	8
BA06157	Sulfate	10
BA06158	Sulfate	10
BA06162	Sulfate	5
BA06163	Sulfate	5
BA06164	Sulfate	4
BA06165	Chloride	2

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

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

Case Narrative

Alkalinity

Greene County Ash Pond

WMWGREAP_1271

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA06056	670481 & 670482	WMWGREAP_1271
BA06057	670481 & 670482	WMWGREAP_1271
BA06058	670481 & 670482	WMWGREAP_1271
BA06059	670481 & 670482	WMWGREAP_1271
BA06060	670481 & 670482	WMWGREAP_1271
BA06157	670481 & 670482	WMWGREAP_1271
BA06158	670481 & 670482	WMWGREAP_1271
BA06159	670481 & 670482	WMWGREAP_1271
BA06160	670481 & 670482	WMWGREAP_1271
BA06161	670481 & 670482	WMWGREAP_1271
BA06162	670481 & 670482	WMWGREAP_1271
BA06163	670481 & 670482	WMWGREAP_1271
BA06164	670481 & 670482	WMWGREAP_1271
BA06165	670481 & 670482	WMWGREAP_1271
BA06166	670481 & 670482	WMWGREAP_1271
BA06167	670481 & 670482	WMWGREAP_1271
BA06168	670481 & 670482	WMWGREAP_1271
BA06169	670481 & 670482	WMWGREAP_1271

4. All of the above samples were analyzed by Standard Method 2320B.
5. All samples were 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.

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

Case Narrative

Alabama Power

Total Organic Carbon by High Temperature Combustion

Greene County Ash Pond

WMWGREAP_1271

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA06056	669955	WMWGREAP_1271
BA06057	669955	WMWGREAP_1271
BA06058	669955	WMWGREAP_1271
BA06059	669955	WMWGREAP_1271
BA06060	669955	WMWGREAP_1271
BA06061	669955	WMWGREAP_1271
BA06157	669955	WMWGREAP_1271
BA06158	669955	WMWGREAP_1271
BA06159	669955	WMWGREAP_1271
BA06160	669955	WMWGREAP_1271
BA06161	669956	WMWGREAP_1271
BA06162	669956	WMWGREAP_1271
BA06163	669956	WMWGREAP_1271
BA06164	669956	WMWGREAP_1271
BA06165	669956	WMWGREAP_1271
BA06166	669956	WMWGREAP_1271
BA06167	669956	WMWGREAP_1271
BA06168	669956	WMWGREAP_1271
BA06169	669956	WMWGREAP_1271
BA06170	669956	WMWGREAP_1271
BA06171	669957	WMWGREAP_1271

4. All of the above samples were 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 was 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 were <1/2RL.
- All continued calibration verification (CCV) were within the acceptance range.
- All continued calibration blanks (CCB) were <1/2RL.
- 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.

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

Case Narrative

Alabama Power

Nitrate/Nitrite, Nitrite, and ortho-Phosphate

Greene County Ash Pond

WMWGREAP_1271

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 are NIST/ISO/IEC/Guide 34 traceable and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA06056	669766, 669765, & 669767	WMWGREAP_1271
BA06057	669766, 669765, & 669767	WMWGREAP_1271
BA06058	669766, 669765, & 669767	WMWGREAP_1271
BA06059	669766, 669765, & 669767	WMWGREAP_1271
BA06060	669766, 669765, & 669767	WMWGREAP_1271
BA06061	669766, 669765, & 669767	WMWGREAP_1271
BA06157	669820, 669818, & 669822	WMWGREAP_1271
BA06158	669820, 669818, & 669822	WMWGREAP_1271
BA06159	669820, 669818, & 669822	WMWGREAP_1271
BA06160	669820, 669818, & 669822	WMWGREAP_1271
BA06161	669820, 669818, & 669822	WMWGREAP_1271
BA06162	669820, 669818, & 669822	WMWGREAP_1271
BA06163	669820, 669818, & 669822	WMWGREAP_1271
BA06164	669820, 669818, & 669822	WMWGREAP_1271
BA06165	669820, 669818, & 669822	WMWGREAP_1271
BA06166	669820, 669818, & 669822	WMWGREAP_1271
BA06167	669821, 669819, & 669823	WMWGREAP_1271
BA06168	669821, 669819, & 669823	WMWGREAP_1271
BA06169	669821, 669819, & 669823	WMWGREAP_1271
BA06170	669821, 669819, & 669823	WMWGREAP_1271
BA06171	669821, 669819, & 669823	WMWGREAP_1271

4. All of the above samples were analyzed by NO_x and NO_2 by EPA 353.2 and PO_4 by SM 4500P-F.
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.

EPA 353.2 Specific QC:

- For NO_x: Prior to sample analysis, Cadmium coil reduction efficiency check met 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.
- 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.

SM 4500P-F Specific QC:

- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below half the limit of quantitation.
- All continued calibration blanks (CCB) were below half the limit of quantitation.
- Matrix Specific QC:
    - A matrix spike was run and criteria for accuracy was met.
    - A matrix spike duplicate was run and criteria for precision was met.

7. All samples were analyzed without dilution.
8. The raw data results are shown with dilution factors included.

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-1

Location Code: WMWGREAP
Collected: 3/30/20 12:15
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06056

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:30		1.015	0.371	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 15:04		101.5	89.0	mg/L	10.15	50.75	
Silicon, Total	4/1/20 11:25	4/2/20 12:30		1.015	5.57	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 15:04		101.5	291	mg/L	2.03	5.075	
* Lithium, Total	4/1/20 11:25	4/2/20 12:30		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 12:30		1.015	37.6	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:30		1	11.9	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 15:04		101.5	64.6	mg/L	10.15	50.75	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 14:34		101.5	286	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:10		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:10		1.015	0.0249	mg/L	0.001	0.005	
* Aluminum, Total	4/1/20 10:58	4/2/20 12:10		1.015	0.0900	mg/L	0.02	0.06	
* Barium, Total	4/1/20 10:58	4/2/20 12:10		1.015	0.0205	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:10		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:10		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:10		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:10		1.015	0.237	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 12:10		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:10		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 15:44		19.285	13.0	mg/L	0.019285	0.096425	
* Potassium, Total	4/1/20 10:58	4/2/20 12:10		1.015	3.76	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 12:10		1.015	0.00210	mg/L	0.002	0.01	J
* Thallium, Total	4/1/20 10:58	4/2/20 12:10		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	0.0844	mg/L	0.02	0.06	
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	0.0246	mg/L	0.001	0.005	
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-1

Location Code: WMWGREAP
Collected: 3/30/20 12:15
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06056

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	0.254	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:09		19.285	12.9	mg/L	0.019285	0.096425	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	0.00203	mg/L	0.002	0.01	J
* Thallium, Dissolved	4/1/20 10:17	4/2/20 10:51		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	3/31/20 14:20	3/31/20 14:20		1	0.423	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	3/31/20 14:20	3/31/20 14:20		1	0.423	mg/L as N			
Nitrogen, Nitrite	3/31/20 11:52	3/31/20 11:52		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	35.6	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	35.6	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.00	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	3/31/20 12:17	3/31/20 12:17		1	0.010	mg/L as P	0.010	0.03	J
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 14:28	4/2/20 14:28		1	3.64	mg/L	1.00	2	
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	3/31/20 14:02	3/31/20 14:02		1	17.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	3/31/20 14:45	3/31/20 14:45		1	0.188	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/1/20 11:51	4/1/20 11:51		40	985	mg/L	20.0	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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 12:15
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-1

Laboratory ID Number: BA06056

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06061	Ortho Phosphate	mg/L as P	0.000	0.015	0.250	0.232	0.233	0.240	0.225 to 0.275	92.8	80 to 120	0.430	10
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 12:15
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-1

Laboratory ID Number: BA06056

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

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

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/20 12:15
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-1

Laboratory ID Number: BA06056

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06061	Sulfate	mg/L	-0.279	0.50	20.0	19.0	-0.336	19.3	18 to 22	95.0	80 to 120	0.00	20
BA06061	Nitrogen, Nitrite	mg/L as N	-0.001	0.20	0.500	0.498	-0.003	0.721	0.675 to 0.825	99.6	90 to 110	0.00	15
BA06061	Fluoride	mg/L	0.0252	0.05	2.50	2.56	0.0214	2.58	2.25 to 2.75	102	80 to 120	0.00	20
BA06061	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	1.97	0.050	1.94	1.8 to 2.2	98.5	90 to 110	0.00	15
BA06061	Chloride	mg/L	-0.0112	0.50	10.0	10.1	0.138	10.1	9 to 11	101	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-10

Location Code: WMWGREAP
Collected: 3/30/20 13:35
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06057

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:33		1.015	1.13	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 15:07		20.3	63.6	mg/L	2.03	10.15	
Silicon, Total	4/1/20 11:25	4/2/20 12:33		1.015	5.50	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 15:07		20.3	19.3	mg/L	0.406	1.015	
* Lithium, Total	4/1/20 11:25	4/2/20 12:33		1.015	0.0938	mg/L	0.01	0.02	
* Magnesium, Total	4/1/20 11:25	4/2/20 12:33		1.015	9.02	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:33		1	11.8	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 12:33		1.015	29.7	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 14:37		101.5	18.0	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:13		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:13		1.015	0.0113	mg/L	0.001	0.005	
* Aluminum, Total	4/1/20 10:58	4/2/20 12:13		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 12:13		1.015	0.185	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:13		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:13		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:13		1.015	0.0233	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 12:13		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:13		1.015	0.00586	mg/L	0.002	0.01	J
* Manganese, Total	4/1/20 10:58	4/2/20 15:46		5.075	4.15	mg/L	0.005075	0.025375	
* Potassium, Total	4/1/20 10:58	4/2/20 12:13		1.015	3.25	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 12:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:13		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	0.0439	mg/L	0.02	0.06	J
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	0.0113	mg/L	0.001	0.005	
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-10

Location Code: WMWGREAP
Collected: 3/30/20 13:35
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06057

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	0.0229	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	0.00655	mg/L	0.002	0.01	J
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:12		5.075	4.04	mg/L	0.005075	0.025375	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 10:54		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	3/31/20 14:22	3/31/20 14:22		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	3/31/20 14:22	3/31/20 14:22		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	3/31/20 11:53	3/31/20 11:53		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	181	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	181	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.07	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	3/31/20 12:18	3/31/20 12:18		1	0.018	mg/L as P	0.010	0.03	J
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 14:40	4/2/20 14:40		1	2.61	mg/L	1.00	2	
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	3/31/20 14:03	3/31/20 14:03		1	16.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	3/31/20 14:46	3/31/20 14:46		1	0.190	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/1/20 11:52	4/1/20 11:52		4	69.4	mg/L	2.00	4	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 13:35
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-10

Laboratory ID Number: BA06057

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 13:35
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-10

Laboratory ID Number: BA06057

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06061	Ortho Phosphate	mg/L as P	0.000	0.015	0.250	0.232	0.233	0.240	0.225 to 0.275	92.8	80 to 120	0.430	10
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/20 13:35
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-10

Laboratory ID Number: BA06057

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06061	Sulfate	mg/L	-0.279	0.50	20.0	19.0	-0.336	19.3	18 to 22	95.0	80 to 120	0.00	20
BA06061	Nitrogen, Nitrite	mg/L as N	-0.001	0.20	0.500	0.498	-0.003	0.721	0.675 to 0.825	99.6	90 to 110	0.00	15
BA06061	Fluoride	mg/L	0.0252	0.05	2.50	2.56	0.0214	2.58	2.25 to 2.75	102	80 to 120	0.00	20
BA06061	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	1.97	0.050	1.94	1.8 to 2.2	98.5	90 to 110	0.00	15
BA06061	Chloride	mg/L	-0.0112	0.50	10.0	10.1	0.138	10.1	9 to 11	101	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-11

Location Code: WMWGREAP
Collected: 3/30/20 14:45
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06058

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:36		1.015	0.317	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 12:36		1.015	34.6	mg/L	0.1	0.5	
Silicon, Total	4/1/20 11:25	4/2/20 12:36		1.015	2.99	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 12:36		1.015	2.25	mg/L	0.02	0.05	
* Lithium, Total	4/1/20 11:25	4/2/20 12:36		1.015	0.126	mg/L	0.01	0.02	
* Magnesium, Total	4/1/20 11:25	4/2/20 12:36		1.015	8.85	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:36		1	6.40	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 12:36		1.015	27.5	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 11:13		1.015	2.61	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:15		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:15		1.015	0.00609	mg/L	0.001	0.005	
* Aluminum, Total	4/1/20 10:58	4/2/20 12:15		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 12:15		1.015	0.0871	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:15		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:15		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:15		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:15		1.015	0.0299	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 12:15		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:15		1.015	0.0153	mg/L	0.002	0.01	
* Manganese, Total	4/1/20 10:58	4/2/20 15:49		5.075	4.90	mg/L	0.005075	0.025375	
* Potassium, Total	4/1/20 10:58	4/2/20 12:15		1.015	5.61	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 12:15		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:15		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	0.0373	mg/L	0.02	0.06	J
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	0.00788	mg/L	0.001	0.005	
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-11

Location Code: WMWGREAP
Collected: 3/30/20 14:45
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06058

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	0.0301	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	0.0164	mg/L	0.002	0.01	
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:15		5.075	4.85	mg/L	0.005075	0.025375	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 10:56		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	3/31/20 14:22	3/31/20 14:22		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	3/31/20 14:22	3/31/20 14:22		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	3/31/20 11:54	3/31/20 11:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	100	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	100	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.04	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	3/31/20 12:19	3/31/20 12:19		1	0.019	mg/L as P	0.010	0.03	J
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 14:51	4/2/20 14:51		1	1.80	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	3/31/20 14:04	3/31/20 14:04		1	16.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	3/31/20 14:47	3/31/20 14:47		1	0.172	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/1/20 11:54	4/1/20 11:54		4	79.0	mg/L	2.00	4	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 14:45
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-11

Laboratory ID Number: BA06058

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06061	Ortho Phosphate	mg/L as P	0.000	0.015	0.250	0.232	0.233	0.240	0.225 to 0.275	92.8	80 to 120	0.430	10
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 14:45
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-11

Laboratory ID Number: BA06058

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/20 14:45
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-11

Laboratory ID Number: BA06058

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06061	Sulfate	mg/L	-0.279	0.50	20.0	19.0	-0.336	19.3	18 to 22	95.0	80 to 120	0.00	20
BA06061	Nitrogen, Nitrite	mg/L as N	-0.001	0.20	0.500	0.498	-0.003	0.721	0.675 to 0.825	99.6	90 to 110	0.00	15
BA06061	Fluoride	mg/L	0.0252	0.05	2.50	2.56	0.0214	2.58	2.25 to 2.75	102	80 to 120	0.00	20
BA06061	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	1.97	0.050	1.94	1.8 to 2.2	98.5	90 to 110	0.00	15
BA06061	Chloride	mg/L	-0.0112	0.50	10.0	10.1	0.138	10.1	9 to 11	101	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-14

Location Code: WMWGREAP
Collected: 3/30/20 17:08
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06059

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:39		1.015	1.51	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 15:10		20.3	140	mg/L	2.03	10.15	
Silicon, Total	4/1/20 11:25	4/2/20 12:39		1.015	6.13	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 15:10		20.3	58.4	mg/L	0.406	1.015	
* Lithium, Total	4/1/20 11:25	4/2/20 12:39		1.015	0.784	mg/L	0.01	0.02	
* Magnesium, Total	4/1/20 11:25	4/2/20 12:39		1.015	29.6	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:39		1	13.1	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 12:39		1.015	35.5	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 14:40		101.5	50.8	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:18		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:18		1.015	0.0201	mg/L	0.001	0.005	
* Aluminum, Total	4/1/20 10:58	4/2/20 12:18		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 12:18		1.015	0.102	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:18		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:18		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:18		1.015	0.0382	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 12:18		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:18		1.015	0.0155	mg/L	0.002	0.01	
* Manganese, Total	4/1/20 10:58	4/2/20 15:51		5.075	4.44	mg/L	0.005075	0.025375	
* Potassium, Total	4/1/20 10:58	4/2/20 12:18		1.015	11.9	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 12:18		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:18		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	0.0243	mg/L	0.02	0.06	J
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	0.0199	mg/L	0.001	0.005	
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-14

Location Code: WMWGREAP
Collected: 3/30/20 17:08
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06059

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	0.0374	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	0.0156	mg/L	0.002	0.01	
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:17		5.075	4.43	mg/L	0.005075	0.025375	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 10:59		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	3/31/20 14:23	3/31/20 14:23		1	0.366	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	3/31/20 14:23	3/31/20 14:23		1	0.366	mg/L as N			
Nitrogen, Nitrite	3/31/20 11:54	3/31/20 11:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	281	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	281	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.09	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	3/31/20 12:20	3/31/20 12:20		1	0.015	mg/L as P	0.010	0.03	J
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 15:03	4/2/20 15:03		1	2.52	mg/L	1.00	2	
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	3/31/20 14:05	3/31/20 14:05		1	13.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	3/31/20 14:49	3/31/20 14:49		1	0.233	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/1/20 11:55	4/1/20 11:55		16	250	mg/L	8.00	16	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 17:08
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-14

Laboratory ID Number: BA06059

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 17:08
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-14

Laboratory ID Number: BA06059

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06061	Ortho Phosphate	mg/L as P	0.000	0.015	0.250	0.232	0.233	0.240	0.225 to 0.275	92.8	80 to 120	0.430	10
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/20 17:08
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-14

Laboratory ID Number: BA06059

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06061	Nitrogen, Nitrite	mg/L as N	-0.001	0.20	0.500	0.498	-0.003	0.721	0.675 to 0.825	99.6	90 to 110	0.00	15
BA06061	Sulfate	mg/L	-0.279	0.50	20.0	19.0	-0.336	19.3	18 to 22	95.0	80 to 120	0.00	20
BA06061	Fluoride	mg/L	0.0252	0.05	2.50	2.56	0.0214	2.58	2.25 to 2.75	102	80 to 120	0.00	20
BA06061	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	1.97	0.050	1.94	1.8 to 2.2	98.5	90 to 110	0.00	15
BA06061	Chloride	mg/L	-0.0112	0.50	10.0	10.1	0.138	10.1	9 to 11	101	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-24

Location Code: WMWGREAP
Collected: 3/30/20 16:47
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06060

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:42		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 12:42		1.015	39.4	mg/L	0.1	0.5	
Silicon, Total	4/1/20 11:25	4/2/20 12:42		1.015	5.58	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 12:42		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 12:42		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 12:42		1.015	7.33	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:42		1	11.9	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 12:42		1.015	2.92	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 11:19		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Aluminum, Total	4/1/20 10:58	4/2/20 12:20		1.015	0.0294	mg/L	0.02	0.06	J
* Barium, Total	4/1/20 10:58	4/2/20 12:20		1.015	0.0924	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 12:20		1.015	0.0351	mg/L	0.001	0.005	
* Potassium, Total	4/1/20 10:58	4/2/20 12:20		1.015	1.67	mg/L	0.3	2.5	J
* Selenium, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:20		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	0.0400	mg/L	0.02	0.06	J
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-24

Location Code: WMWGREAP
Collected: 3/30/20 16:47
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06060

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	0.0364	mg/L	0.001	0.005	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:01		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	3/31/20 14:24	3/31/20 14:24		1	0.652	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	3/31/20 14:24	3/31/20 14:24		1	0.652	mg/L as N			
Nitrogen, Nitrite	3/31/20 11:55	3/31/20 11:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	12.2	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	12.2	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.00	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	3/31/20 12:21	3/31/20 12:21		1	Not Detected	mg/L as P	0.010	0.03	U
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 15:15	4/2/20 15:15		1	1.41	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	3/31/20 14:07	3/31/20 14:07		1	4.34	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	3/31/20 14:50	3/31/20 14:50		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/1/20 11:56	4/1/20 11:56		8	103	mg/L	4.00	8	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 16:47
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-24

Laboratory ID Number: BA06060

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06061	Ortho Phosphate	mg/L as P	0.000	0.015	0.250	0.232	0.233	0.240	0.225 to 0.275	92.8	80 to 120	0.430	10
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/30/20 16:47
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-24

Laboratory ID Number: BA06060

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/30/20 16:47
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond - GC-AP-MW-24

Laboratory ID Number: BA06060

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06061	Sulfate	mg/L	-0.279	0.50	20.0	19.0	-0.336	19.3	18 to 22	95.0	80 to 120	0.00	20
BA06061	Nitrogen, Nitrite	mg/L as N	-0.001	0.20	0.500	0.498	-0.003	0.721	0.675 to 0.825	99.6	90 to 110	0.00	15
BA06061	Chloride	mg/L	-0.0112	0.50	10.0	10.1	0.138	10.1	9 to 11	101	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10
BA06061	Fluoride	mg/L	0.0252	0.05	2.50	2.56	0.0214	2.58	2.25 to 2.75	102	80 to 120	0.00	20
BA06061	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	1.97	0.050	1.94	1.8 to 2.2	98.5	90 to 110	0.00	15

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 3/30/20 14:40
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06061

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:45		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 12:45		1.015	Not Detected	mg/L	0.1	0.5	U
Silicon, Total	4/1/20 11:25	4/2/20 12:45		1.015	Not Detected	mg/L	0.03	0.3	U
* Iron, Total	4/1/20 11:25	4/2/20 12:45		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 12:45		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 12:45		1.015	Not Detected	mg/L	0.1	0.5	U
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:45		1	Not Detected	mg/L			U
* Sodium, Total	4/1/20 11:25	4/2/20 12:45		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:23		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	3/31/20 14:25	3/31/20 14:25		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	3/31/20 14:25	3/31/20 14:25		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	3/31/20 11:56	3/31/20 11:56		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 4500PF-OP	***Analyst: CES***								
Ortho Phosphate	3/31/20 12:22	3/31/20 12:22		1	Not Detected	mg/L as P	0.010	0.03	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank

Location Code: WMWGREAPFB
Collected: 3/30/20 14:40
Customer ID:
Submittal Date: 3/31/20 09:07

Laboratory ID Number: BA06061

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 15:26	4/2/20 15:26		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	3/31/20 14:08	3/31/20 14:08		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	3/31/20 14:51	3/31/20 14:51		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/1/20 11:57	4/1/20 11:57		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 3/30/20 14:40
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA06061

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06061	Ortho Phosphate	mg/L as P	0.000	0.015	0.250	0.232	0.233	0.240	0.225 to 0.275	92.8	80 to 120	0.430	10
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20

Comments:

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 3/30/20 14:40
Customer ID:
Delivery Date: 3/31/20 09:07

Description: Greene County Ash Pond Field Blank

Laboratory ID Number: BA06061

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06061	Sulfate	mg/L	-0.279	0.50	20.0	19.0	-0.336	19.3	18 to 22	95.0	80 to 120	0.00	20
BA06061	Nitrogen, Nitrite	mg/L as N	-0.001	0.20	0.500	0.498	-0.003	0.721	0.675 to 0.825	99.6	90 to 110	0.00	15
BA06061	Chloride	mg/L	-0.0112	0.50	10.0	10.1	0.138	10.1	9 to 11	101	80 to 120	0.00	20
BA06061	Fluoride	mg/L	0.0252	0.05	2.50	2.56	0.0214	2.58	2.25 to 2.75	102	80 to 120	0.00	20
BA06061	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	1.97	0.050	1.94	1.8 to 2.2	98.5	90 to 110	0.00	15

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-15

Location Code: WMWGREAP
Collected: 3/31/20 12:30
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06157

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:48		1.015	0.772	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 15:12		20.3	69.8	mg/L	2.03	10.15	
Silicon, Total	4/1/20 11:25	4/2/20 12:48		1.015	5.72	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 12:48		1.015	1.58	mg/L	0.02	0.05	
* Lithium, Total	4/1/20 11:25	4/2/20 12:48		1.015	0.603	mg/L	0.01	0.02	
* Magnesium, Total	4/1/20 11:25	4/2/20 12:48		1.015	14.6	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:48		1	12.2	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 12:48		1.015	30.4	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 11:22		1.015	1.61	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Aluminum, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 12:26		1.015	0.0337	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:26		1.015	0.0194	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 15:54		5.075	2.11	mg/L	0.005075	0.025375	
* Potassium, Total	4/1/20 10:58	4/2/20 12:26		1.015	9.38	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:26		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-15

Location Code: WMWGREAP
Collected: 3/31/20 12:30
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06157

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	0.0193	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:20		5.075	2.03	mg/L	0.005075	0.025375	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:04		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:29	4/1/20 13:29		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	4/1/20 13:29	4/1/20 13:29		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	4/1/20 11:14	4/1/20 11:14		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	120	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	120	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.03	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 11:51	4/1/20 11:51		1	Not Detected	mg/L as P	0.010	0.03	U
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 15:38	4/2/20 15:38		1	1.33	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:21	4/6/20 10:21		1	12.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 11:57	4/3/20 11:57		1	0.140	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:12	4/3/20 08:12		10	146	mg/L	5.00	10	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 12:30
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-15

Laboratory ID Number: BA06157

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 12:30
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-15

Laboratory ID Number: BA06157

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 12:30
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-15

Laboratory ID Number: BA06157

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-5

Location Code: WMWGREAP
Collected: 3/31/20 13:50
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06158

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:51		1.015	0.711	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 15:15		20.3	122	mg/L	2.03	10.15	
Silicon, Total	4/1/20 11:25	4/2/20 12:51		1.015	9.28	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 15:15		20.3	45.0	mg/L	0.406	1.015	
* Lithium, Total	4/1/20 11:25	4/2/20 12:51		1.015	0.130	mg/L	0.01	0.02	
* Magnesium, Total	4/1/20 11:25	4/2/20 12:51		1.015	19.5	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:51		1	19.9	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 12:51		1.015	24.5	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 14:43		101.5	35.2	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:28		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 15:57		5.075	0.457	mg/L	0.005075	0.025375	
* Aluminum, Total	4/1/20 10:58	4/2/20 12:28		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 12:28		1.015	0.149	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:28		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:28		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:28		1.015	0.00768	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 12:28		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:28		1.015	0.00327	mg/L	0.002	0.01	J
* Manganese, Total	4/1/20 10:58	4/2/20 15:57		5.075	1.94	mg/L	0.005075	0.025375	
* Potassium, Total	4/1/20 10:58	4/2/20 12:28		1.015	6.97	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 12:28		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:28		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 15:22		5.075	0.453	mg/L	0.005075	0.025375	
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-5

Location Code: WMWGREAP
Collected: 3/31/20 13:50
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06158

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	0.00769	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	0.00316	mg/L	0.002	0.01	J
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:22		5.075	2.01	mg/L	0.005075	0.025375	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:07		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:31	4/1/20 13:31		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	4/1/20 13:31	4/1/20 13:31		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	4/1/20 11:15	4/1/20 11:15		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	198	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	198	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.09	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 11:52	4/1/20 11:52		1	0.054	mg/L as P	0.010	0.03	
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 15:49	4/2/20 15:49		1	1.72	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:22	4/6/20 10:22		1	11.8	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 11:58	4/3/20 11:58		1	0.244	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:14	4/3/20 08:14		10	171	mg/L	5.00	10	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 13:50
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-5

Laboratory ID Number: BA06158

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 13:50
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-5

Laboratory ID Number: BA06158

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 13:50
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-5

Laboratory ID Number: BA06158

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-26

Location Code: WMWGREAP
Collected: 3/31/20 15:35
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06159

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:54		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 12:54		1.015	3.87	mg/L	0.1	0.5	
Silicon, Total	4/1/20 11:25	4/2/20 12:54		1.015	6.23	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 12:54		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 12:54		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 12:54		1.015	0.591	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:54		1	13.3	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 12:54		1.015	2.99	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 11:28		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:31		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:31		1.015	Not Detected	mg/L	0.001	0.005	U
* Aluminum, Total	4/1/20 10:58	4/2/20 12:31		1.015	0.224	mg/L	0.02	0.06	
* Barium, Total	4/1/20 10:58	4/2/20 12:31		1.015	0.0462	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:31		1.015	0.000629	mg/L	0.0006	0.003	J
* Cadmium, Total	4/1/20 10:58	4/2/20 12:31		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:31		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 12:31		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 12:31		1.015	0.115	mg/L	0.001	0.005	
* Potassium, Total	4/1/20 10:58	4/2/20 12:31		1.015	0.465	mg/L	0.3	2.5	J
* Selenium, Total	4/1/20 10:58	4/2/20 12:31		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:31		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	0.141	mg/L	0.02	0.06	
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	0.000670	mg/L	0.0006	0.003	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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-26

Location Code: WMWGREAP
Collected: 3/31/20 15:35
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06159

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	0.129	mg/L	0.001	0.005	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:09		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:33	4/1/20 13:33		1	0.642	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	4/1/20 13:33	4/1/20 13:33		1	0.642	mg/L as N			
Nitrogen, Nitrite	4/1/20 11:16	4/1/20 11:16		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	1.42	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	1.42	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.00	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 11:53	4/1/20 11:53		1	Not Detected	mg/L as P	0.010	0.03	U
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 16:01	4/2/20 16:01		1	1.01	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:23	4/6/20 10:23		1	1.98	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 11:59	4/3/20 11:59		1	0.0602	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:15	4/3/20 08:15		1	6.83	mg/L	0.50	1	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 15:35
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-26

Laboratory ID Number: BA06159

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 15:35
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-26

Laboratory ID Number: BA06159

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 15:35
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-26

Laboratory ID Number: BA06159

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-28

Location Code: WMWGREAP
Collected: 3/31/20 16:55
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06160

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 12:57		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 12:57		1.015	1.97	mg/L	0.1	0.5	
Silicon, Total	4/1/20 11:25	4/2/20 12:57		1.015	3.64	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 12:57		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 12:57		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 12:57		1.015	1.93	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 12:57		1	7.79	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 12:57		1.015	1.08	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 11:31		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:34		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Aluminum, Total	4/1/20 10:58	4/2/20 12:34		1.015	0.0504	mg/L	0.02	0.06	J
* Barium, Total	4/1/20 10:58	4/2/20 12:34		1.015	0.236	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:34		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:34		1.015	0.000541	mg/L	0.0003	0.001	J
* Chromium, Total	4/1/20 10:58	4/2/20 12:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:34		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 12:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 12:34		1.015	0.0611	mg/L	0.001	0.005	
* Potassium, Total	4/1/20 10:58	4/2/20 12:34		1.015	1.97	mg/L	0.3	2.5	J
* Selenium, Total	4/1/20 10:58	4/2/20 12:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:34		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	0.0257	mg/L	0.02	0.06	J
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	Not Detected	mg/L	0.001	0.005	U
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-28

Location Code: WMWGREAP
Collected: 3/31/20 16:55
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06160

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	0.000620	mg/L	0.0003	0.001	J
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	0.0602	mg/L	0.001	0.005	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:12		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:35	4/1/20 13:35		1	1.38	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	4/1/20 13:35	4/1/20 13:35		1	1.38	mg/L as N			
Nitrogen, Nitrite	4/1/20 11:17	4/1/20 11:17		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	0.16	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.16	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.00	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 11:54	4/1/20 11:54		1	Not Detected	mg/L as P	0.010	0.03	U
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 16:12	4/2/20 16:12		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:24	4/6/20 10:24		1	1.14	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:00	4/3/20 12:00		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:16	4/3/20 08:16		1	10.6	mg/L	0.50	1	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 16:55
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-28

Laboratory ID Number: BA06160

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Boron, Total	mg/L	0.00520	0.0650254	1.00	1.02	1.03	1.03	0.85 to 1.15	102	70 to 130	0.976	20
BA06160	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.103	0.104	0.102	0.085 to 0.115	102	70 to 130	0.966	20
BA06160	Magnesium, Total	mg/L	0.00237	0.0462	5.00	6.95	7.04	5.21	4.25 to 5.75	100	70 to 130	1.29	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06160	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.145	0.147	0.0985	0.085 to 0.115	94.6	70 to 130	1.37	20
BA06160	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.334	0.334	0.0987	0.085 to 0.115	98.0	70 to 130	0.00	20
BA06160	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.209	0.214	0.210	0.17 to 0.23	104	70 to 130	2.36	20
BA06160	Silicon, Total	mg/L	0.000207	0.044	1.00	4.62	4.63	1.03	0.850 to 1.15	98.0	70 to 130	0.216	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20
BA06160	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0940	0.0943	0.0944	0.085 to 0.115	94.0	70 to 130	0.319	20
BA06160	Sodium, Total	mg/L	0.00166	0.044	5.00	6.00	6.10	5.07	4.25 to 5.75	98.4	70 to 130	1.65	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA06160	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.198	0.200	0.203	0.17 to 0.23	99.0	70 to 130	1.01	20
BA06160	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.101	0.102	0.104	0.085 to 0.115	101	70 to 130	0.985	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.108	0.107	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Total Organic Carbon	mg/L	0.389	1.00	10.0	10.5	10.8	9.88	9 to 11	105	80 to 120	2.82	20
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20
BA06160	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0979	0.0994	0.0968	0.085 to 0.115	97.9	70 to 130	1.52	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 16:55
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-28

Laboratory ID Number: BA06160

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06160	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.102	0.105	0.102	0.085 to 0.115	102	70 to 130	2.90	20
BA06160	Calcium, Total	mg/L	0.00256	0.1518	5.00	7.00	7.21	5.24	4.25 to 5.75	101	70 to 130	2.96	20
BA06160	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.108	0.104	0.085 to 0.115	106	70 to 130	1.87	20
BA06160	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06160	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.105	0.107	0.104	0.085 to 0.115	105	70 to 130	1.89	20
BA06160	Potassium, Total	mg/L	0.00367	0.3674	10.0	12.1	12.4	10.2	8.5 to 11.5	101	70 to 130	2.45	20
BA06160	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.162	0.161	0.0993	0.085 to 0.115	101	70 to 130	0.619	20
BA06160	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.0998	0.104	0.102	0.085 to 0.115	99.8	70 to 130	4.12	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 16:55
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-28

Laboratory ID Number: BA06160

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-27

Location Code: WMWGREAP
Collected: 3/31/20 18:00
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06161

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:11		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 13:11		1.015	0.839	mg/L	0.1	0.5	
Silicon, Total	4/1/20 11:25	4/2/20 13:11		1.015	4.76	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 13:11		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 13:11		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 13:11		1.015	0.699	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:11		1	10.2	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 13:11		1.015	2.19	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 11:34		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.001	0.005	U
* Aluminum, Total	4/1/20 10:58	4/2/20 12:50		1.015	0.0271	mg/L	0.02	0.06	J
* Barium, Total	4/1/20 10:58	4/2/20 12:50		1.015	0.0822	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 12:50		1.015	0.0256	mg/L	0.001	0.005	
* Potassium, Total	4/1/20 10:58	4/2/20 12:50		1.015	0.979	mg/L	0.3	2.5	J
* Selenium, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:50		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.001	0.005	U
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-27

Location Code: WMWGREAP
Collected: 3/31/20 18:00
Customer ID:
Submittal Date: 4/1/20 08:43

Laboratory ID Number: BA06161

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	0.0230	mg/L	0.001	0.005	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:15		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:37	4/1/20 13:37		1	1.96	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	4/1/20 13:37	4/1/20 13:37		1	1.96	mg/L as N			
Nitrogen, Nitrite	4/1/20 11:18	4/1/20 11:18		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	0.68	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.68	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.00	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 11:55	4/1/20 11:55		1	Not Detected	mg/L as P	0.010	0.03	U
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 17:04	4/2/20 17:04		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:25	4/6/20 10:25		1	1.72	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:02	4/3/20 12:02		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:17	4/3/20 08:17		1	13.8	mg/L	0.50	1	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 18:00
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-27

Laboratory ID Number: BA06161

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06161	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.205	0.205	0.213	0.17 to 0.23	102	70 to 130	0.00	20
BA06161	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0968	0.0974	0.0977	0.085 to 0.115	96.8	70 to 130	0.618	20
BA06161	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.102	0.105	0.103	0.085 to 0.115	102	70 to 130	2.90	20
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06161	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06161	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.123	0.124	0.101	0.085 to 0.115	100	70 to 130	0.810	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06161	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.110	0.112	0.0994	0.085 to 0.115	110	70 to 130	1.80	20
BA06161	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06161	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.100	0.102	0.101	0.085 to 0.115	100	70 to 130	1.98	20
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06161	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06161	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0920	0.0917	0.0936	0.085 to 0.115	92.0	70 to 130	0.327	20
BA06161	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.105	0.106	0.105	0.085 to 0.115	105	70 to 130	0.948	20
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 18:00
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-27

Laboratory ID Number: BA06161

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20
BA06161	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.105	0.106	0.106	0.085 to 0.115	105	70 to 130	0.948	20
BA06161	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.101	0.0995	0.103	0.085 to 0.115	101	70 to 130	1.50	20
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 18:00
Customer ID:
Delivery Date: 4/1/20 08:43

Description: Greene County Ash Pond - GC-AP-MW-27

Laboratory ID Number: BA06161

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-17

Location Code: WMWGREAP
Collected: 3/31/20 10:12
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06162

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:14		1.015	1.98	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 15:18		20.3	83.8	mg/L	2.03	10.15	
Silicon, Total	4/1/20 11:25	4/2/20 13:14		1.015	11.0	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 15:18		20.3	33.4	mg/L	0.406	1.015	
* Lithium, Total	4/1/20 11:25	4/2/20 13:14		1.015	0.616	mg/L	0.01	0.02	
* Magnesium, Total	4/1/20 11:25	4/2/20 13:14		1.015	22.5	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:14		1	23.5	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 15:18		20.3	74.7	mg/L	2.03	10.15	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 14:46		101.5	28.2	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:53		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 15:59		5.075	0.688	mg/L	0.005075	0.025375	
* Aluminum, Total	4/1/20 10:58	4/2/20 12:53		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 12:53		1.015	0.309	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:53		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:53		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:53		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:53		1.015	0.0172	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 12:53		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:53		1.015	0.0705	mg/L	0.002	0.01	
* Manganese, Total	4/1/20 10:58	4/2/20 15:59		5.075	2.18	mg/L	0.005075	0.025375	
* Potassium, Total	4/1/20 10:58	4/2/20 12:53		1.015	11.9	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 12:53		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:53		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 15:25		5.075	0.661	mg/L	0.005075	0.025375	
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-17

Location Code: WMWGREAP
Collected: 3/31/20 10:12
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06162

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	0.0176	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	0.0690	mg/L	0.002	0.01	
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:25		5.075	2.13	mg/L	0.005075	0.025375	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:30		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:39	4/1/20 13:39		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	4/1/20 13:39	4/1/20 13:39		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	4/1/20 11:19	4/1/20 11:19		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	370	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	370	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.18	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 11:56	4/1/20 11:56		1	0.108	mg/L as P	0.010	0.03	
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 17:15	4/2/20 17:15		1	1.68	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:27	4/6/20 10:27		1	11.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:03	4/3/20 12:03		1	0.554	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:18	4/3/20 08:18		5	83.9	mg/L	2.50	5	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 10:12
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-17

Laboratory ID Number: BA06162

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06169	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.209	0.205	0.213	0.17 to 0.23	104	70 to 130	1.93	20
BA06169	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06169	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06169	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.103	0.108	0.106	0.085 to 0.115	103	70 to 130	4.74	20
BA06169	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.0980	0.102	0.101	0.085 to 0.115	98.0	70 to 130	4.00	20
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06169	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0911	0.0963	0.0936	0.085 to 0.115	91.1	70 to 130	5.55	20
BA06169	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06169	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20
BA06169	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.101	0.106	0.105	0.085 to 0.115	101	70 to 130	4.83	20
BA06169	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 10:12
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-17

Laboratory ID Number: BA06162

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06169	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.0967	0.0993	0.0994	0.085 to 0.115	96.7	70 to 130	2.65	20
BA06169	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06169	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0987	0.0997	0.0977	0.085 to 0.115	98.7	70 to 130	1.01	20
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 10:12
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-17

Laboratory ID Number: BA06162

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-17 DUP

Location Code: WMWGREAP
Collected: 3/31/20 10:12
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06163

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:17		1.015	2.00	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 15:21		20.3	83.2	mg/L	2.03	10.15	
Silicon, Total	4/1/20 11:25	4/2/20 13:17		1.015	11.1	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 15:21		20.3	33.2	mg/L	0.406	1.015	
* Lithium, Total	4/1/20 11:25	4/2/20 13:17		1.015	0.624	mg/L	0.01	0.02	
* Magnesium, Total	4/1/20 11:25	4/2/20 13:17		1.015	22.6	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:17		1	23.8	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 15:21		20.3	74.3	mg/L	2.03	10.15	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 14:49		101.5	27.6	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:56		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 16:02		5.075	0.680	mg/L	0.005075	0.025375	
* Aluminum, Total	4/1/20 10:58	4/2/20 12:56		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 12:56		1.015	0.309	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:56		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:56		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:56		1.015	0.0171	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 12:56		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:56		1.015	0.0721	mg/L	0.002	0.01	
* Manganese, Total	4/1/20 10:58	4/2/20 16:02		5.075	2.11	mg/L	0.005075	0.025375	
* Potassium, Total	4/1/20 10:58	4/2/20 12:56		1.015	12.2	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 12:56		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:56		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 15:28		5.075	0.684	mg/L	0.005075	0.025375	
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-17 DUP

Location Code: WMWGREAP
Collected: 3/31/20 10:12
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06163

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	0.0167	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	0.0679	mg/L	0.002	0.01	
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:28		5.075	2.17	mg/L	0.005075	0.025375	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:33		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:40	4/1/20 13:40		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	4/1/20 13:40	4/1/20 13:40		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	4/1/20 11:20	4/1/20 11:20		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	350	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	350	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.18	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 11:57	4/1/20 11:57		1	0.096	mg/L as P	0.010	0.03	
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 17:27	4/2/20 17:27		1	2.08	mg/L	1.00	2	
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:28	4/6/20 10:28		1	11.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:04	4/3/20 12:04		1	0.564	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:20	4/3/20 08:20		5	80.6	mg/L	2.50	5	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 10:12
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-17 DUP

Laboratory ID Number: BA06163

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06169	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.209	0.205	0.213	0.17 to 0.23	104	70 to 130	1.93	20
BA06169	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20
BA06169	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.101	0.106	0.105	0.085 to 0.115	101	70 to 130	4.83	20
BA06169	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06169	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0911	0.0963	0.0936	0.085 to 0.115	91.1	70 to 130	5.55	20
BA06169	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06169	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06169	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06169	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.103	0.108	0.106	0.085 to 0.115	103	70 to 130	4.74	20
BA06169	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.0980	0.102	0.101	0.085 to 0.115	98.0	70 to 130	4.00	20
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 10:12
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-17 DUP

Laboratory ID Number: BA06163

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06169	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.0967	0.0993	0.0994	0.085 to 0.115	96.7	70 to 130	2.65	20
BA06169	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06169	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0987	0.0997	0.0977	0.085 to 0.115	98.7	70 to 130	1.01	20
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 10:12
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-17 DUP

Laboratory ID Number: BA06163

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-16

Location Code: WMWGREAP
Collected: 3/31/20 12:10
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06164

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:20		1.015	1.73	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 15:24		20.3	91.9	mg/L	2.03	10.15	
Silicon, Total	4/1/20 11:25	4/2/20 13:20		1.015	6.50	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 15:24		20.3	16.2	mg/L	0.406	1.015	
* Lithium, Total	4/1/20 11:25	4/2/20 13:20		1.015	0.603	mg/L	0.01	0.02	
* Magnesium, Total	4/1/20 11:25	4/2/20 13:20		1.015	22.3	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:20		1	13.9	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 13:20		1.015	34.4	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 14:52		101.5	13.6	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 12:58		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 12:58		1.015	0.105	mg/L	0.001	0.005	
* Aluminum, Total	4/1/20 10:58	4/2/20 12:58		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 12:58		1.015	0.0854	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 12:58		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 12:58		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 12:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 12:58		1.015	0.0150	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 12:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 12:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 16:05		5.075	2.25	mg/L	0.005075	0.025375	
* Potassium, Total	4/1/20 10:58	4/2/20 12:58		1.015	13.0	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 12:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 12:58		1.015	0.000345	mg/L	0.0002	0.001	J
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	0.0677	mg/L	0.001	0.005	
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-16

Location Code: WMWGREAP
Collected: 3/31/20 12:10
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06164

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	0.0151	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:30		5.075	2.34	mg/L	0.005075	0.025375	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:36		1.015	0.000356	mg/L	0.0002	0.001	J
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:42	4/1/20 13:42		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	4/1/20 13:42	4/1/20 13:42		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	4/1/20 11:21	4/1/20 11:21		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	352	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	352	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.15	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 11:58	4/1/20 11:58		1	0.019	mg/L as P	0.010	0.03	J
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 17:38	4/2/20 17:38		1	2.19	mg/L	1.00	2	
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:29	4/6/20 10:29		1	10.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:05	4/3/20 12:05		1	0.292	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:21	4/3/20 08:21		4	63.2	mg/L	2.00	4	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 12:10
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-16

Laboratory ID Number: BA06164

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06169	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.209	0.205	0.213	0.17 to 0.23	104	70 to 130	1.93	20
BA06169	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06169	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0911	0.0963	0.0936	0.085 to 0.115	91.1	70 to 130	5.55	20
BA06169	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06169	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06169	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06169	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.103	0.108	0.106	0.085 to 0.115	103	70 to 130	4.74	20
BA06169	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.0980	0.102	0.101	0.085 to 0.115	98.0	70 to 130	4.00	20
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06169	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.101	0.106	0.105	0.085 to 0.115	101	70 to 130	4.83	20
BA06169	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 12:10
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-16

Laboratory ID Number: BA06164

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20
BA06169	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.0967	0.0993	0.0994	0.085 to 0.115	96.7	70 to 130	2.65	20
BA06169	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06169	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0987	0.0997	0.0977	0.085 to 0.115	98.7	70 to 130	1.01	20
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 12:10
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-16

Laboratory ID Number: BA06164

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-18

Location Code: WMWGREAP
Collected: 3/31/20 13:40
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06165

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:23		1.015	1.52	mg/L	0.03	0.1	
* Calcium, Total	4/1/20 11:25	4/2/20 15:27		20.3	95.4	mg/L	2.03	10.15	
Silicon, Total	4/1/20 11:25	4/2/20 13:23		1.015	7.72	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 15:27		20.3	13.9	mg/L	0.406	1.015	
* Lithium, Total	4/1/20 11:25	4/2/20 13:23		1.015	0.396	mg/L	0.01	0.02	
* Magnesium, Total	4/1/20 11:25	4/2/20 13:23		1.015	16.4	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:23		1	16.5	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 15:27		20.3	51.9	mg/L	2.03	10.15	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 14:55		101.5	11.7	mg/L	2.03	5.075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 13:01		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 13:01		1.015	0.0507	mg/L	0.001	0.005	
* Aluminum, Total	4/1/20 10:58	4/2/20 13:01		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 13:01		1.015	0.0971	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 13:01		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 13:01		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 13:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 13:01		1.015	0.0185	mg/L	0.002	0.005	
* Lead, Total	4/1/20 10:58	4/2/20 13:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 13:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 16:07		5.075	2.90	mg/L	0.005075	0.025375	
* Potassium, Total	4/1/20 10:58	4/2/20 13:01		1.015	6.74	mg/L	0.3	2.5	
* Selenium, Total	4/1/20 10:58	4/2/20 13:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 13:01		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	0.0485	mg/L	0.001	0.005	
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-18

Location Code: WMWGREAP
Collected: 3/31/20 13:40
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06165

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	0.0186	mg/L	0.002	0.005	
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 15:33		5.075	2.84	mg/L	0.005075	0.025375	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:38		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:44	4/1/20 13:44		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	4/1/20 13:44	4/1/20 13:44		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	4/1/20 11:22	4/1/20 11:22		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	343	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	343	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.14	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 11:59	4/1/20 11:59		1	0.011	mg/L as P	0.010	0.03	J
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 17:50	4/2/20 17:50		1	2.70	mg/L	1.00	2	
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:35	4/6/20 10:35		2	26.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:06	4/3/20 12:06		1	0.200	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:22	4/3/20 08:22		1	22.7	mg/L	0.50	1	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 13:40
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-18

Laboratory ID Number: BA06165

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06169	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0911	0.0963	0.0936	0.085 to 0.115	91.1	70 to 130	5.55	20
BA06169	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06169	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06169	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06169	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.103	0.108	0.106	0.085 to 0.115	103	70 to 130	4.74	20
BA06169	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.0980	0.102	0.101	0.085 to 0.115	98.0	70 to 130	4.00	20
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06169	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.209	0.205	0.213	0.17 to 0.23	104	70 to 130	1.93	20
BA06169	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06169	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.101	0.106	0.105	0.085 to 0.115	101	70 to 130	4.83	20
BA06169	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 13:40
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-18

Laboratory ID Number: BA06165

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06169	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.0967	0.0993	0.0994	0.085 to 0.115	96.7	70 to 130	2.65	20
BA06169	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06169	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0987	0.0997	0.0977	0.085 to 0.115	98.7	70 to 130	1.01	20
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 13:40
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-18

Laboratory ID Number: BA06165

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-30

Location Code: WMWGREAP
Collected: 3/31/20 15:50
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06166

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:26		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 13:26		1.015	0.838	mg/L	0.1	0.5	
Silicon, Total	4/1/20 11:25	4/2/20 13:26		1.015	5.08	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 13:26		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 13:26		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 13:26		1.015	0.287	mg/L	0.1	0.5	J
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:26		1	10.9	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 13:26		1.015	3.23	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 12:00		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Aluminum, Total	4/1/20 10:58	4/2/20 13:03		1.015	0.0294	mg/L	0.02	0.06	J
* Barium, Total	4/1/20 10:58	4/2/20 13:03		1.015	0.0574	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 13:03		1.015	0.0124	mg/L	0.001	0.005	
* Potassium, Total	4/1/20 10:58	4/2/20 13:03		1.015	1.18	mg/L	0.3	2.5	J
* Selenium, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 13:03		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.001	0.005	U
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-30

Location Code: WMWGREAP
Collected: 3/31/20 15:50
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06166

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	0.0122	mg/L	0.001	0.005	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:41		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:46	4/1/20 13:46		1	0.661	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	4/1/20 13:46	4/1/20 13:46		1	0.661	mg/L as N			
Nitrogen, Nitrite	4/1/20 11:23	4/1/20 11:23		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	3.48	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	3.48	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.00	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 12:00	4/1/20 12:00		1	Not Detected	mg/L as P	0.010	0.03	U
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 18:02	4/2/20 18:02		1	1.38	mg/L	1.00	2	J
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:31	4/6/20 10:31		1	3.73	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:08	4/3/20 12:08		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:23	4/3/20 08:23		1	Not Detected	mg/L	0.50	1	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 15:50
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-30

Laboratory ID Number: BA06166

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06169	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.209	0.205	0.213	0.17 to 0.23	104	70 to 130	1.93	20
BA06169	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06169	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0911	0.0963	0.0936	0.085 to 0.115	91.1	70 to 130	5.55	20
BA06169	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06169	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20
BA06166	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.231	0.229	0.231	0.225 to 0.275	92.4	80 to 120	0.870	10
BA06169	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06169	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.103	0.108	0.106	0.085 to 0.115	103	70 to 130	4.74	20
BA06169	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.0980	0.102	0.101	0.085 to 0.115	98.0	70 to 130	4.00	20
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06169	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.101	0.106	0.105	0.085 to 0.115	101	70 to 130	4.83	20
BA06169	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 15:50
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-30

Laboratory ID Number: BA06166

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06169	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.0967	0.0993	0.0994	0.085 to 0.115	96.7	70 to 130	2.65	20
BA06169	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06169	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0987	0.0997	0.0977	0.085 to 0.115	98.7	70 to 130	1.01	20
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 15:50
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-30

Laboratory ID Number: BA06166

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06166	Chloride	mg/L	0.00356	0.50	10.0	15.4	3.74	9.97	9 to 11	117	80 to 120	0.268	20
BA06166	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.20	2.00	2.78	0.663	2.03	1.8 to 2.2	106	90 to 110	0.302	15
BA06166	Sulfate	mg/L	-0.512	0.50	20.0	20.0	0.435	19.6	18 to 22	100	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10
BA06166	Fluoride	mg/L	0.0377	0.05	2.50	2.52	0.0305	2.60	2.25 to 2.75	101	80 to 120	0.00	20
BA06166	Nitrogen, Nitrite	mg/L as N	0.007	0.20	0.500	0.528	0.006	0.732	0.675 to 0.825	106	90 to 110	0.00	15

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-29

Location Code: WMWGREAP
Collected: 3/31/20 17:08
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06167

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:29		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 13:29		1.015	0.472	mg/L	0.1	0.5	J
Silicon, Total	4/1/20 11:25	4/2/20 13:29		1.015	4.25	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 13:29		1.015	0.117	mg/L	0.02	0.05	
* Lithium, Total	4/1/20 11:25	4/2/20 13:29		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 13:29		1.015	0.397	mg/L	0.1	0.5	J
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:29		1	9.10	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 13:29		1.015	1.23	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 12:03		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Aluminum, Total	4/1/20 10:58	4/2/20 13:06		1.015	0.166	mg/L	0.02	0.06	
* Barium, Total	4/1/20 10:58	4/2/20 13:06		1.015	0.0381	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 13:06		1.015	0.0259	mg/L	0.001	0.005	
* Potassium, Total	4/1/20 10:58	4/2/20 13:06		1.015	0.823	mg/L	0.3	2.5	J
* Selenium, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 13:06		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	0.0278	mg/L	0.02	0.06	J
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.001	0.005	U
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-29

Location Code: WMWGREAP
Collected: 3/31/20 17:08
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06167

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	0.0248	mg/L	0.001	0.005	
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:43		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:55	4/1/20 13:55		1	0.922	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	4/1/20 13:55	4/1/20 13:55		1	0.922	mg/L as N			
Nitrogen, Nitrite	4/1/20 11:27	4/1/20 11:27		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	3.08	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	3.08	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.00	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 12:05	4/1/20 12:05		1	Not Detected	mg/L as P	0.010	0.03	U
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 18:13	4/2/20 18:13		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:45	4/6/20 10:45		1	1.08	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:21	4/3/20 12:21		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:35	4/3/20 08:35		1	3.01	mg/L	0.50	1	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 17:08
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-29

Laboratory ID Number: BA06167

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06169	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.209	0.205	0.213	0.17 to 0.23	104	70 to 130	1.93	20
BA06169	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20
BA06169	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.101	0.106	0.105	0.085 to 0.115	101	70 to 130	4.83	20
BA06169	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06169	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06169	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.103	0.108	0.106	0.085 to 0.115	103	70 to 130	4.74	20
BA06169	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.0980	0.102	0.101	0.085 to 0.115	98.0	70 to 130	4.00	20
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06171	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.233	0.231	0.233	0.225 to 0.275	93.2	80 to 120	0.862	10
BA06169	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0911	0.0963	0.0936	0.085 to 0.115	91.1	70 to 130	5.55	20
BA06169	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06169	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 17:08
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-29

Laboratory ID Number: BA06167

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06169	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.0967	0.0993	0.0994	0.085 to 0.115	96.7	70 to 130	2.65	20
BA06169	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06169	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0987	0.0997	0.0977	0.085 to 0.115	98.7	70 to 130	1.01	20
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 17:08
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-29

Laboratory ID Number: BA06167

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06171	Chloride	mg/L	-0.0187	0.50	10.0	11.0	0.056	9.94	9 to 11	110	80 to 120	0.00	20
BA06171	Sulfate	mg/L	-0.517	0.50	20.0	19.2	-0.503	19.5	18 to 22	96.0	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10
BA06171	Nitrogen, Nitrite	mg/L as N	0.009	0.20	0.500	0.512	0.005	0.726	0.675 to 0.825	102	90 to 110	0.00	15
BA06171	Fluoride	mg/L	0.0303	0.05	2.50	2.61	0.026	2.62	2.25 to 2.75	104	80 to 120	0.00	20
BA06171	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	2.08	0.037	1.98	1.8 to 2.2	104	90 to 110	0.00	15

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-23

Location Code: WMWGREAP
Collected: 3/31/20 18:20
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06168

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:32		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 13:32		1.015	31.6	mg/L	0.1	0.5	
Silicon, Total	4/1/20 11:25	4/2/20 13:32		1.015	3.48	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 13:32		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 13:32		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 13:32		1.015	2.03	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:32		1	7.45	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 13:32		1.015	2.39	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 12:06		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Aluminum, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 13:09		1.015	0.0292	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	4/1/20 10:58	4/2/20 13:09		1.015	0.753	mg/L	0.3	2.5	J
* Selenium, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 13:09		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-23

Location Code: WMWGREAP
Collected: 3/31/20 18:20
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06168

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.001	0.005	U
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:46		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:56	4/1/20 13:56		1	0.562	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	4/1/20 13:56	4/1/20 13:56		1	0.562	mg/L as N			
Nitrogen, Nitrite	4/1/20 11:28	4/1/20 11:28		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	74.9	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	74.9	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.04	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 12:06	4/1/20 12:06		1	Not Detected	mg/L as P	0.010	0.03	U
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 18:25	4/2/20 18:25		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:46	4/6/20 10:46		1	1.09	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:22	4/3/20 12:22		1	0.0952	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:36	4/3/20 08:36		1	10.1	mg/L	0.50	1	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 18:20
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-23

Laboratory ID Number: BA06168

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06169	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.209	0.205	0.213	0.17 to 0.23	104	70 to 130	1.93	20
BA06169	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06169	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0911	0.0963	0.0936	0.085 to 0.115	91.1	70 to 130	5.55	20
BA06169	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06169	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06169	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06169	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.103	0.108	0.106	0.085 to 0.115	103	70 to 130	4.74	20
BA06169	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.0980	0.102	0.101	0.085 to 0.115	98.0	70 to 130	4.00	20
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06171	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.233	0.231	0.233	0.225 to 0.275	93.2	80 to 120	0.862	10
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20
BA06169	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.101	0.106	0.105	0.085 to 0.115	101	70 to 130	4.83	20
BA06169	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 18:20
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-23

Laboratory ID Number: BA06168

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06169	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.0967	0.0993	0.0994	0.085 to 0.115	96.7	70 to 130	2.65	20
BA06169	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06169	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0987	0.0997	0.0977	0.085 to 0.115	98.7	70 to 130	1.01	20
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 18:20
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-23

Laboratory ID Number: BA06168

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06171	Chloride	mg/L	-0.0187	0.50	10.0	11.0	0.056	9.94	9 to 11	110	80 to 120	0.00	20
BA06171	Sulfate	mg/L	-0.517	0.50	20.0	19.2	-0.503	19.5	18 to 22	96.0	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10
BA06171	Nitrogen, Nitrite	mg/L as N	0.009	0.20	0.500	0.512	0.005	0.726	0.675 to 0.825	102	90 to 110	0.00	15
BA06171	Fluoride	mg/L	0.0303	0.05	2.50	2.61	0.026	2.62	2.25 to 2.75	104	80 to 120	0.00	20
BA06171	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	2.08	0.037	1.98	1.8 to 2.2	104	90 to 110	0.00	15

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-23 DUP

Location Code: WMWGREAP
Collected: 3/31/20 18:20
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06169

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:35		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 13:35		1.015	31.3	mg/L	0.1	0.5	
Silicon, Total	4/1/20 11:25	4/2/20 13:35		1.015	3.48	mg/L	0.03	0.3	
* Iron, Total	4/1/20 11:25	4/2/20 13:35		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 13:35		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 13:35		1.015	2.02	mg/L	0.1	0.5	
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:35		1	7.45	mg/L			
* Sodium, Total	4/1/20 11:25	4/2/20 13:35		1.015	2.38	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	4/1/20 13:05	4/2/20 12:09		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Aluminum, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.02	0.06	U
* Barium, Total	4/1/20 10:58	4/2/20 13:11		1.015	0.0299	mg/L	0.002	0.01	
* Beryllium, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	4/1/20 10:58	4/2/20 13:11		1.015	0.751	mg/L	0.3	2.5	J
* Selenium, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 13:11		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Antimony, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Beryllium, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.0006	0.003	U

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond - GC-AP-MW-23 DUP

Location Code: WMWGREAP
Collected: 3/31/20 18:20
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06169

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Cadmium, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.001	0.005	U
* Selenium, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Dissolved	4/1/20 10:17	4/2/20 11:49		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2		***Analyst: CES***							
* Nitrogen, Nitrate/Nitrite	4/1/20 13:57	4/1/20 13:57		1	0.569	mg/L as N	0.20	0.3	
Nitrogen, Nitrate (calc.)	4/1/20 13:57	4/1/20 13:57		1	0.569	mg/L as N			
Nitrogen, Nitrite	4/1/20 11:29	4/1/20 11:29		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		***Analyst: JAG***							
Alkalinity, Total as CaCO3	4/10/20 11:20	4/10/20 12:10		1	77.4	mg/L		0.1	
Analytical Method: SM 4500CO2 D		***Analyst: JAG***							
Bicarbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	77.4	mg/L			
Carbonate Alkalinity, (calc.)	4/10/20 11:20	4/10/20 12:10		1	0.04	mg/L			
Analytical Method: SM 4500PF-OP		***Analyst: CES***							
Ortho Phosphate	4/1/20 12:07	4/1/20 12:07		1	Not Detected	mg/L as P	0.010	0.03	U
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 18:36	4/2/20 18:36		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:47	4/6/20 10:47		1	1.09	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:23	4/3/20 12:23		1	0.0922	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:38	4/3/20 08:38		1	10.1	mg/L	0.50	1	

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.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 18:20
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-23 DUP

Laboratory ID Number: BA06169

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06169	Iron, Dissolved	mg/L	-0.000104	0.0176	0.2	0.209	0.205	0.213	0.17 to 0.23	104	70 to 130	1.93	20
BA06169	Thallium, Dissolved	mg/L	0.00000181	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06169	Beryllium, Dissolved	mg/L	0.0000444	0.00088	0.10	0.0911	0.0963	0.0936	0.085 to 0.115	91.1	70 to 130	5.55	20
BA06169	Cadmium, Dissolved	mg/L	-0.00000010	0.0001474	0.10	0.101	0.103	0.103	0.085 to 0.115	101	70 to 130	1.96	20
BA06169	Selenium, Dissolved	mg/L	0.0000432	0.00066	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06169	Cobalt, Dissolved	mg/L	-0.00000177	0.0001474	0.10	0.101	0.106	0.105	0.085 to 0.115	101	70 to 130	4.83	20
BA06169	Lead, Dissolved	mg/L	0.00000170	0.0001474	0.10	0.101	0.103	0.101	0.085 to 0.115	101	70 to 130	1.96	20
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06169	Arsenic, Dissolved	mg/L	-0.00000627	0.0001474	0.10	0.105	0.107	0.106	0.085 to 0.115	105	70 to 130	1.89	20
BA06169	Chromium, Dissolved	mg/L	-0.00000273	0.00044	0.10	0.103	0.108	0.106	0.085 to 0.115	103	70 to 130	4.74	20
BA06169	Manganese, Dissolved	mg/L	0.00000491	0.0001474	0.10	0.0980	0.102	0.101	0.085 to 0.115	98.0	70 to 130	4.00	20
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06171	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.233	0.231	0.233	0.225 to 0.275	93.2	80 to 120	0.862	10
BA06169	Aluminum, Dissolved	mg/L	0.00105	0.0088	0.10	0.0967	0.0993	0.0994	0.085 to 0.115	96.7	70 to 130	2.65	20
BA06169	Molybdenum, Dissolved	mg/L	0.00000826	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06169	Antimony, Dissolved	mg/L	0.000248	0.00066	0.10	0.0987	0.0997	0.0977	0.085 to 0.115	98.7	70 to 130	1.01	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAP
Sample Date: 3/31/20 18:20
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-23 DUP

Laboratory ID Number: BA06169

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAP
Sample Date: 3/31/20 18:20
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond - GC-AP-MW-23 DUP

Laboratory ID Number: BA06169

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06171	Chloride	mg/L	-0.0187	0.50	10.0	11.0	0.056	9.94	9 to 11	110	80 to 120	0.00	20
BA06171	Sulfate	mg/L	-0.517	0.50	20.0	19.2	-0.503	19.5	18 to 22	96.0	80 to 120	0.00	20
BA06169	Alkalinity, Total as CaCO3	mg/L					77.4	50.2	45.0 to 55.0			0.00	10
BA06171	Nitrogen, Nitrite	mg/L as N	0.009	0.20	0.500	0.512	0.005	0.726	0.675 to 0.825	102	90 to 110	0.00	15
BA06171	Fluoride	mg/L	0.0303	0.05	2.50	2.61	0.026	2.62	2.25 to 2.75	104	80 to 120	0.00	20
BA06171	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	2.08	0.037	1.98	1.8 to 2.2	104	90 to 110	0.00	15

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 04/17/2020

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-2

Location Code: WMWGREAPFB
Collected: 3/31/20 16:30
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06170

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 13:38		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 13:38		1.015	Not Detected	mg/L	0.1	0.5	U
Silicon, Total	4/1/20 11:25	4/2/20 13:38		1.015	Not Detected	mg/L	0.03	0.3	U
* Iron, Total	4/1/20 11:25	4/2/20 13:38		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 13:38		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 13:38		1.015	Not Detected	mg/L	0.1	0.5	U
Silica, Total (calc.)	4/1/20 11:25	4/2/20 13:38		1	Not Detected	mg/L			U
* Sodium, Total	4/1/20 11:25	4/2/20 13:38		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 13:14		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/1/20 13:58	4/1/20 13:58		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	4/1/20 13:58	4/1/20 13:58		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	4/1/20 11:30	4/1/20 11:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 4500PF-OP	***Analyst: CES***								
Ortho Phosphate	4/1/20 12:08	4/1/20 12:08		1	Not Detected	mg/L as P	0.010	0.03	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Field Blank-2

Location Code: WMWGREAPFB
Collected: 3/31/20 16:30
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06170

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 18:48	4/2/20 18:48		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:49	4/6/20 10:49		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:24	4/3/20 12:24		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:39	4/3/20 08:39		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPFB
Sample Date: 3/31/20 16:30
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BA06170

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06170	Arsenic, Total	mg/L	0.0000143	0.0001474	0.10	0.106	0.106	0.107	0.085 to 0.115	106	70 to 130	0.00	20
BA06170	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.104	0.104	0.102	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Lead, Total	mg/L	0.00000213	0.0001474	0.10	0.102	0.102	0.102	0.085 to 0.115	102	70 to 130	0.00	20
BA06170	Barium, Total	mg/L	0.0000157	0.0002	0.10	0.102	0.101	0.0987	0.085 to 0.115	102	70 to 130	0.985	20
BA06170	Boron, Total	mg/L	0.00520	0.0650254	1.00	0.998	1.02	1.03	0.85 to 1.15	99.8	70 to 130	2.18	20
BA06170	Thallium, Total	mg/L	0.00000019	0.0001474	0.10	0.105	0.103	0.102	0.085 to 0.115	105	70 to 130	1.92	20
BA06171	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.233	0.231	0.233	0.225 to 0.275	93.2	80 to 120	0.862	10
BA06170	Iron, Total	mg/L	-0.00000308	0.0176	0.2	0.205	0.207	0.210	0.17 to 0.23	102	70 to 130	0.971	20
BA06170	Silicon, Total	mg/L	0.000207	0.044	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70 to 130	0.976	20
BA06170	Aluminum, Total	mg/L	0.00114	0.0088	0.10	0.0992	0.0987	0.0985	0.085 to 0.115	99.2	70 to 130	0.505	20
BA06170	Beryllium, Total	mg/L	0.0000424	0.00088	0.10	0.0959	0.0949	0.0944	0.085 to 0.115	95.9	70 to 130	1.05	20
BA06170	Calcium, Total	mg/L	0.00256	0.1518	5.00	5.10	5.18	5.24	4.25 to 5.75	102	70 to 130	1.56	20
BA06170	Potassium, Total	mg/L	0.00367	0.3674	10.0	10.4	10.1	10.2	8.5 to 11.5	104	70 to 130	2.93	20
BA06170	Lithium, Total	mg/L	-0.0000154	0.0154	0.20	0.197	0.200	0.203	0.17 to 0.23	98.5	70 to 130	1.51	20
BA06170	Sodium, Total	mg/L	0.00166	0.044	5.00	4.91	4.96	5.07	4.25 to 5.75	98.2	70 to 130	1.01	20
BA06170	Selenium, Total	mg/L	0.0000642	0.00066	0.10	0.104	0.104	0.104	0.085 to 0.115	104	70 to 130	0.00	20
BA06170	Cobalt, Total	mg/L	-0.00000226	0.0001474	0.10	0.106	0.104	0.104	0.085 to 0.115	106	70 to 130	1.90	20
BA06170	Chromium, Total	mg/L	0.0000409	0.00044	0.10	0.106	0.105	0.104	0.085 to 0.115	106	70 to 130	0.948	20
BA06170	Magnesium, Total	mg/L	0.00237	0.0462	5.00	5.07	5.17	5.21	4.25 to 5.75	101	70 to 130	1.95	20
BA06170	Manganese, Total	mg/L	0.0000249	0.0001474	0.10	0.101	0.0993	0.0993	0.085 to 0.115	101	70 to 130	1.70	20
BA06170	Molybdenum, Total	mg/L	0.00000207	0.0001474	0.10	0.103	0.103	0.101	0.085 to 0.115	103	70 to 130	0.00	20
BA06170	Antimony, Total	mg/L	0.000222	0.00066	0.10	0.0973	0.0979	0.0968	0.085 to 0.115	97.3	70 to 130	0.615	20
BA06170	Total Organic Carbon	mg/L	0.357	1.00	10.0	10.3	10.3	9.91	9 to 11	103	80 to 120	0.00	20

Comments:

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAPFB
Sample Date: 3/31/20 16:30
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond Field Blank-2

Laboratory ID Number: BA06170

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06171	Chloride	mg/L	-0.0187	0.50	10.0	11.0	0.056	9.94	9 to 11	110	80 to 120	0.00	20
BA06171	Nitrogen, Nitrite	mg/L as N	0.009	0.20	0.500	0.512	0.005	0.726	0.675 to 0.825	102	90 to 110	0.00	15
BA06171	Sulfate	mg/L	-0.517	0.50	20.0	19.2	-0.503	19.5	18 to 22	96.0	80 to 120	0.00	20
BA06171	Fluoride	mg/L	0.0303	0.05	2.50	2.61	0.026	2.62	2.25 to 2.75	104	80 to 120	0.00	20
BA06171	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	2.08	0.037	1.98	1.8 to 2.2	104	90 to 110	0.00	15

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank

Location Code: WMWGREAPEB
Collected: 3/31/20 15:04
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06171

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	4/1/20 11:25	4/2/20 14:01		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	4/1/20 11:25	4/2/20 14:01		1.015	Not Detected	mg/L	0.1	0.5	U
Silicon, Total	4/1/20 11:25	4/2/20 14:01		1.015	Not Detected	mg/L	0.03	0.3	U
* Iron, Total	4/1/20 11:25	4/2/20 14:01		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	4/1/20 11:25	4/2/20 14:01		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	4/1/20 11:25	4/2/20 14:01		1.015	Not Detected	mg/L	0.1	0.5	U
Silica, Total (calc.)	4/1/20 11:25	4/2/20 14:01		1	Not Detected	mg/L			U
* Sodium, Total	4/1/20 11:25	4/2/20 14:01		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.0008	0.003	U
* Aluminum, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.02	0.06	U
* Arsenic, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	4/1/20 10:58	4/2/20 13:35		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 353.2	***Analyst: CES***								
* Nitrogen, Nitrate/Nitrite	4/1/20 13:59	4/1/20 13:59		1	Not Detected	mg/L as N	0.20	0.3	U
Nitrogen, Nitrate (calc.)	4/1/20 13:59	4/1/20 13:59		1	Not Detected	mg/L as N			U
Nitrogen, Nitrite	4/1/20 11:31	4/1/20 11:31		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 4500PF-OP	***Analyst: CES***								
Ortho Phosphate	4/1/20 12:08	4/1/20 12:08		1	Not Detected	mg/L as P	0.010	0.03	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Certificate Of Analysis

Alabama Power

Description: Greene County Ash Pond Equipment Blank

Location Code: WMWGREAPEB
Collected: 3/31/20 15:04
Customer ID:
Submittal Date: 4/1/20 08:44

Laboratory ID Number: BA06171

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		***Analyst: JCC***							
* Total Organic Carbon	4/2/20 19:40	4/2/20 19:40		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		***Analyst: JCC***							
* Chloride	4/6/20 10:50	4/6/20 10:50		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		***Analyst: JCC***							
* Fluoride	4/3/20 12:25	4/3/20 12:25		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E		***Analyst: JCC***							
* Sulfate	4/3/20 08:40	4/3/20 08:40		1	Not Detected	mg/L	0.50	1	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Alabama Power

Customer Account: WMWGREAPEB
Sample Date: 3/31/20 15:04
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: BA06171

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06171	Lead, Total	mg/L	0.00000323	0.0001474	0.10	0.103	0.0998	0.100	0.085 to 0.115	103	70 to 130	3.16	20
BA06171	Ortho Phosphate	mg/L as P	0.007	0.015	0.250	0.233	0.231	0.233	0.225 to 0.275	93.2	80 to 120	0.862	10
BA06171	Calcium, Total	mg/L	0.00701	0.1518	5.00	5.17	5.14	5.25	4.25 to 5.75	103	70 to 130	0.582	20
BA06171	Lithium, Total	mg/L	-0.00000339	0.0154	0.20	0.199	0.199	0.203	0.17 to 0.23	99.5	70 to 130	0.00	20
BA06171	Beryllium, Total	mg/L	0.0000399	0.00088	0.10	0.0941	0.0926	0.0942	0.085 to 0.115	94.1	70 to 130	1.61	20
BA06171	Boron, Total	mg/L	0.00542	0.0650254	1.00	0.961	1.01	1.03	0.85 to 1.15	96.1	70 to 130	4.97	20
BA06171	Selenium, Total	mg/L	0.0000217	0.00066	0.10	0.103	0.102	0.104	0.085 to 0.115	103	70 to 130	0.976	20
BA06171	Cadmium, Total	mg/L	-0.00000416	0.0001474	0.10	0.102	0.104	0.104	0.085 to 0.115	102	70 to 130	1.94	20
BA06171	Thallium, Total	mg/L	0.00000206	0.0001474	0.10	0.105	0.0998	0.100	0.085 to 0.115	105	70 to 130	5.08	20
BA06171	Total Organic Carbon	mg/L	0.294	1.00	10.0	10.1	10.1	9.91	9 to 11	101	80 to 120	0.00	20
BA06171	Barium, Total	mg/L	-0.0000113	0.0002	0.10	0.102	0.101	0.0992	0.085 to 0.115	102	70 to 130	0.985	20
BA06171	Manganese, Total	mg/L	0.0000548	0.0001474	0.10	0.101	0.101	0.101	0.085 to 0.115	101	70 to 130	0.00	20
BA06171	Sodium, Total	mg/L	0.000989	0.044	5.00	4.93	4.93	5.04	4.25 to 5.75	98.6	70 to 130	0.00	20
BA06171	Aluminum, Total	mg/L	0.00104	0.0088	0.10	0.0995	0.0981	0.0984	0.085 to 0.115	99.5	70 to 130	1.42	20
BA06171	Arsenic, Total	mg/L	0.00000267	0.0001474	0.10	0.106	0.106	0.106	0.085 to 0.115	106	70 to 130	0.00	20
BA06171	Cobalt, Total	mg/L	-0.00000337	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA06171	Chromium, Total	mg/L	0.0000478	0.00044	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA06171	Iron, Total	mg/L	0.000200	0.0176	0.2	0.208	0.207	0.209	0.17 to 0.23	104	70 to 130	0.482	20
BA06171	Potassium, Total	mg/L	0.00531	0.3674	10.0	10.2	10.1	10.3	8.5 to 11.5	102	70 to 130	0.985	20
BA06171	Molybdenum, Total	mg/L	0.00000431	0.0001474	0.10	0.101	0.102	0.102	0.085 to 0.115	101	70 to 130	0.985	20
BA06171	Antimony, Total	mg/L	0.000288	0.00066	0.10	0.0980	0.0990	0.0987	0.085 to 0.115	98.0	70 to 130	1.02	20
BA06171	Magnesium, Total	mg/L	0.00175	0.0462	5.00	5.15	5.13	5.23	4.25 to 5.75	103	70 to 130	0.389	20
BA06171	Silicon, Total	mg/L	0.00228	0.044	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70 to 130	0.00	20

Comments:

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040

Batch QC Summary

Customer Account: WMWGREAPEB
Sample Date: 3/31/20 15:04
Customer ID:
Delivery Date: 4/1/20 08:44

Description: Greene County Ash Pond Equipment Blank

Laboratory ID Number: BA06171

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA06171	Chloride	mg/L	-0.0187	0.50	10.0	11.0	0.056	9.94	9 to 11	110	80 to 120	0.00	20
BA06171	Sulfate	mg/L	-0.517	0.50	20.0	19.2	-0.503	19.5	18 to 22	96.0	80 to 120	0.00	20
BA06171	Nitrogen, Nitrite	mg/L as N	0.009	0.20	0.500	0.512	0.005	0.726	0.675 to 0.825	102	90 to 110	0.00	15
BA06171	Fluoride	mg/L	0.0303	0.05	2.50	2.61	0.026	2.62	2.25 to 2.75	104	80 to 120	0.00	20
BA06171	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.20	2.00	2.08	0.037	1.98	1.8 to 2.2	104	90 to 110	0.00	15

Comments:

Reported: 4/22/2020
Version: 3.1
COA_CCR

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
(205) 664-6001

Definitions

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
J	Reported value is an estimate because concentration is less than reporting limit.
U	Compound was analyzed, but not detected.

WIMWGREEN - 1211

Chain of Custody
Groundwater
APC General Testing Laboratory

☐ Field Complete ☐ Outside Lab
☐ Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Brooks,Redwine,Vlassopoulos,Mitchell
Site Representative	Rick Hagendorfer	Requested By	Greg Dyer
Collector	Rick Hagendorfer / Colton Elkins	Location	Greene Co.

Bottles

1	Metals	500 mL	3	Anions/Alk.	250 mL	5	TOC	250 mL	7	N/A	N/A
2	Diss. Metals	500 mL	4	NO3/Ortho-P	250 mL	6	N/A	N/A	8	N/A	N/A

Comments: send copy of Results to Jim Redwine, Kristi Mitchell, Dimitri Vlassopoulos All with Anchor

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
GC-AP-MW-1	3-30-20	1215	5	Ground water		BAD6056
GC-AP-MW-10		1335	5			57
GC-AP-MW-11		1445	5			58
GC-AP-MW-14		1708	5			59
GC-AP-MW-24		1647	5			60
FB-01	Both	1440	4	D.I. water		61

Relinquished By	Received By	Date/Time
[signature]	Rawan Nabulsi	3/31/20 0855

SmarTroll ID
Turbidity ID
Sample Event 1271

TOC, All metals, and radiological bottles have pH < 2 ☑

Cooler Temp 0.1°C
Thermometer ID 5408-27568-2-2
pH Strip ID 7901-43572-2-1

7.1

WMUGREAP-1271

Chain of Custody Groundwater

APC General Testing Laboratory

☐ Field Complete ☐ Lab Complete ☐ Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Brooks,Redwine,Vlassopoulos,Mitchell
Site Representative	Rick Hayendorfer	Requested By	Greg Dyer
Collector	Rick Hayendorfer / Colton Lindsey	Location	Green Co.

Bottles

1	Metals	500 mL	3	Anions/Alk.	250 mL	5	TOC	250 mL	7	N/A	N/A
2	Diss. Metals	500 mL	4	NO3/Ortho-P	250 mL	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
GC-AP-MW-15	3/31/20	1230	5	Groundwater		BA06157
GC-AP-MW-5		1350				58
GC-AP-MW-26		1535				59
GC-AP-MW-28		1655				60
GC-AP-MW-27		1800				61
GC-AP-MW-17		1012				62
GC-AP-MW-17-DUP		1012				63
GC-AP-MW-16		1210				64
GC-AP-MW-18		1340				65
GC-AP-MW-30		1550				66
GC-AP-MW-24		1708				67
GC-AP-MW-23		1820				68
GC-AP-MW-23-DUP		1820	↓ root	↓ root		69
Field Blank-2		1630	4	D.I. water		70
Equipment Blank ↓ root		1504	4	↓ root		71

Relinquished By	Received By	Date/Time
	Laura Mulvaff	4/1/20 0820

SmarTroll ID

Turbidity ID

Sample Event 1271

TOC, All metals, and radiological bottles have pH < 2 ☑

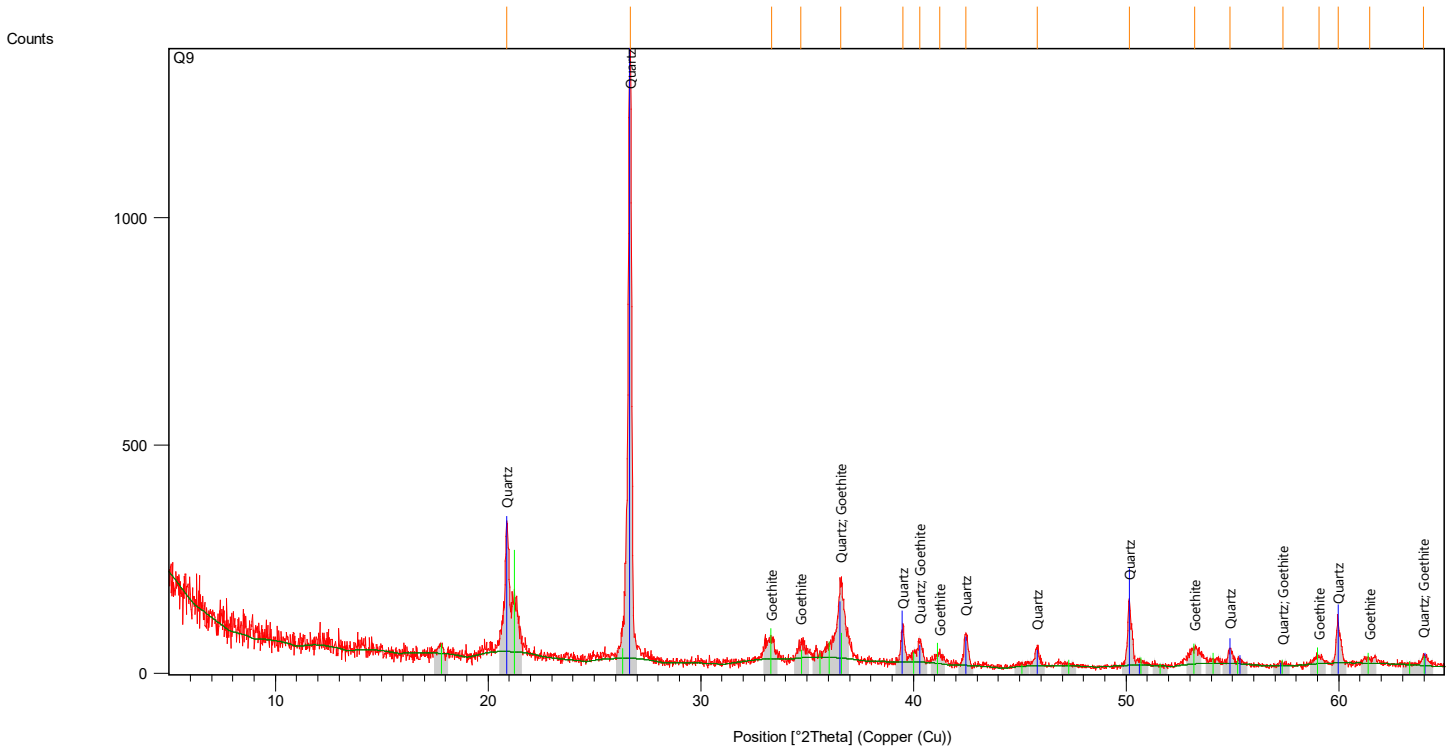
Cooler Temp 0.1°C, 0.2°C, 0.0°C

Thermometer ID 5408-27568-2-2

pH Strip ID 7401-43572-2-1

7.1

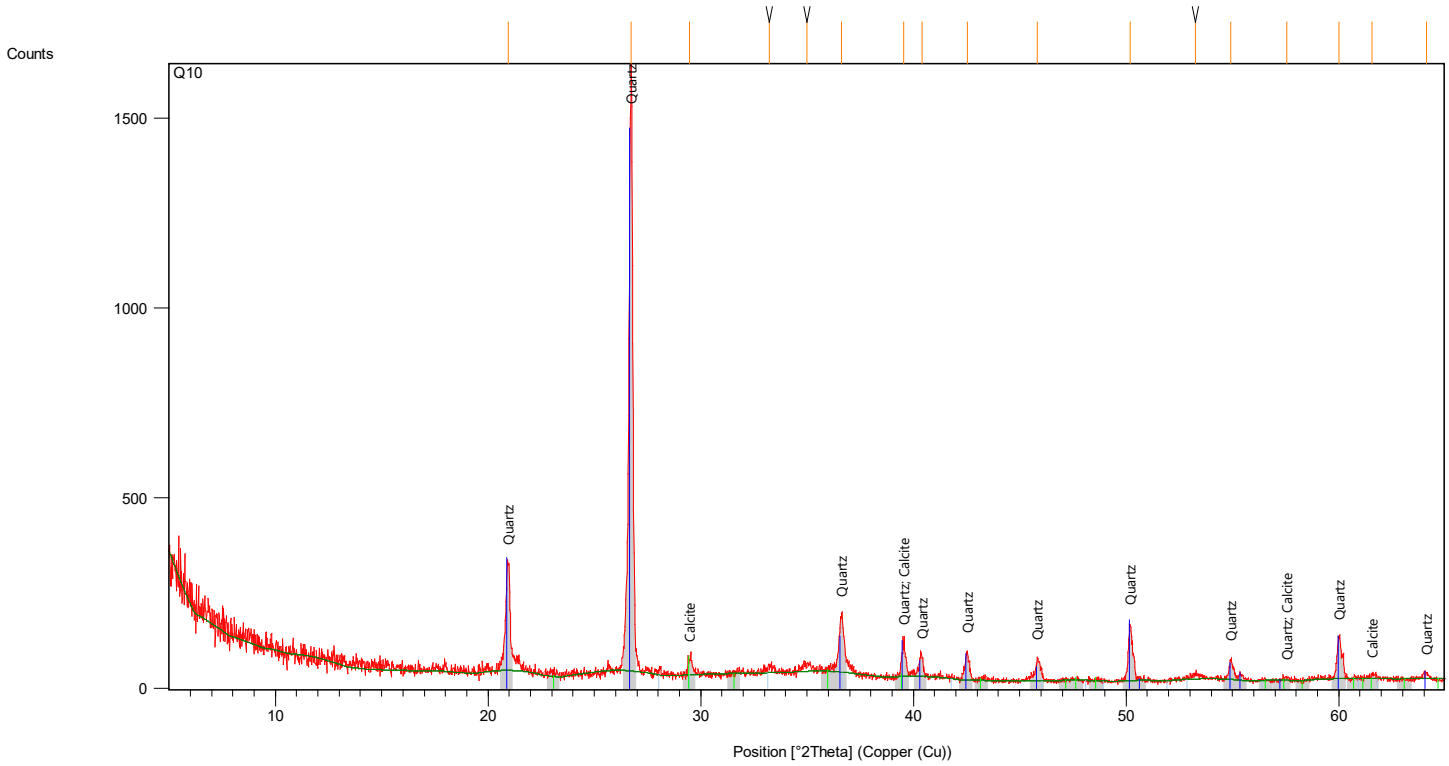
Sample Identification GC-AP-MW-1



Pos. [°2Th.]	Height [cts]	FWHM Left [°2Th.]	d-spacing [Å]	Rel. Int. [%]
20.888520	274.969900	0.177120	4.25277	20.52
26.673750	1339.783000	0.177120	3.34208	100.00
33.328300	42.560470	0.551040	2.68843	3.18
34.710960	33.053700	0.314880	2.58444	2.47
36.588240	169.404100	0.236160	2.45603	12.64
39.494880	76.503050	0.157440	2.28172	5.71
40.295830	45.387370	0.236160	2.23820	3.39
41.226890	22.805750	0.472320	2.18978	1.70
42.474250	68.969330	0.236160	2.12832	5.15
45.811090	39.068170	0.157440	1.98076	2.92
50.146710	147.628200	0.098400	1.81920	11.02
53.209010	33.758740	0.551040	1.72150	2.52
54.892500	35.833050	0.157440	1.67262	2.67
57.357990	6.568364	0.472320	1.60645	0.49
59.066670	14.537950	0.551040	1.56399	1.09
59.963030	89.636300	0.118080	1.54274	6.69
61.469240	10.756490	0.629760	1.50850	0.80
63.990750	21.402110	0.236160	1.45501	1.60

Mineral Name	Chemical Formula
Quartz	Si O2
Goethite	Fe +3 O (O H)

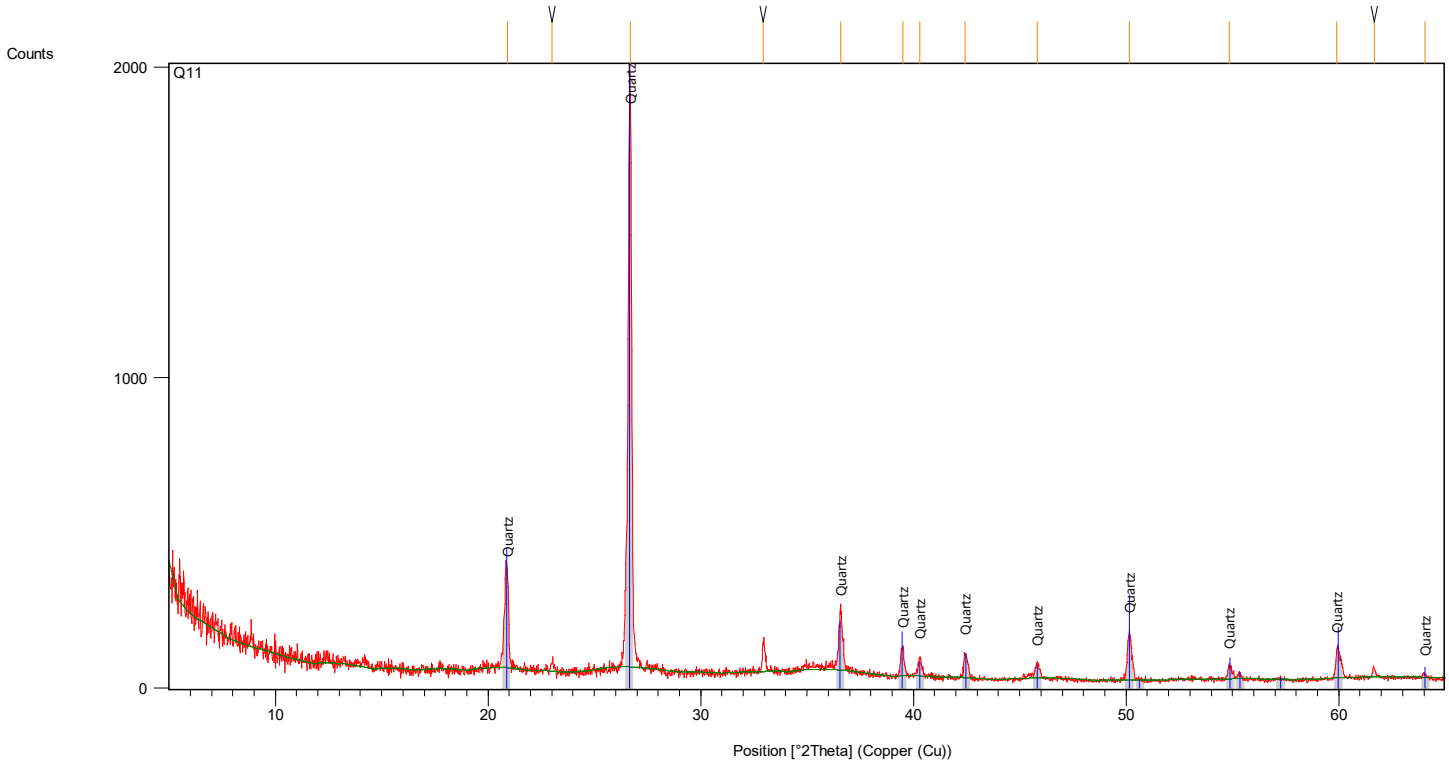
Sample Identification GC-AP-MW-10



Pos. [°2Th.]	Height [cts]	FWHM Left [°2Th.]	d-spacing [Å]	Rel. Int. [%]
20.962260	282.416500	0.177120	4.23797	17.60
26.729690	1604.318000	0.196800	3.33521	100.00
29.472010	40.972010	0.196800	3.03082	2.55
33.213950	16.109870	0.472320	2.69742	1.00
35.007920	15.853080	0.551040	2.56320	0.99
36.610590	151.984000	0.196800	2.45459	9.47
39.543950	88.416890	0.196800	2.27901	5.51
40.404580	51.573650	0.137760	2.23243	3.21
42.526790	76.287350	0.118080	2.12581	4.76
45.840570	58.196250	0.275520	1.97955	3.63
50.179680	152.301900	0.137760	1.81808	9.49
53.271020	12.944010	0.472320	1.71964	0.81
54.910400	53.718450	0.157440	1.67212	3.35
57.538940	7.842222	0.472320	1.60182	0.49
60.009630	105.888800	0.118080	1.54165	6.60
61.553040	8.356177	0.472320	1.50665	0.52
64.131100	14.271860	0.393600	1.45216	0.89

Mineral Name	Chemical Formula	SemiQuant [%]
Quartz	Si O2	97
Calcite	Ca C O3	3

Sample Identification GC-AP-MW-11

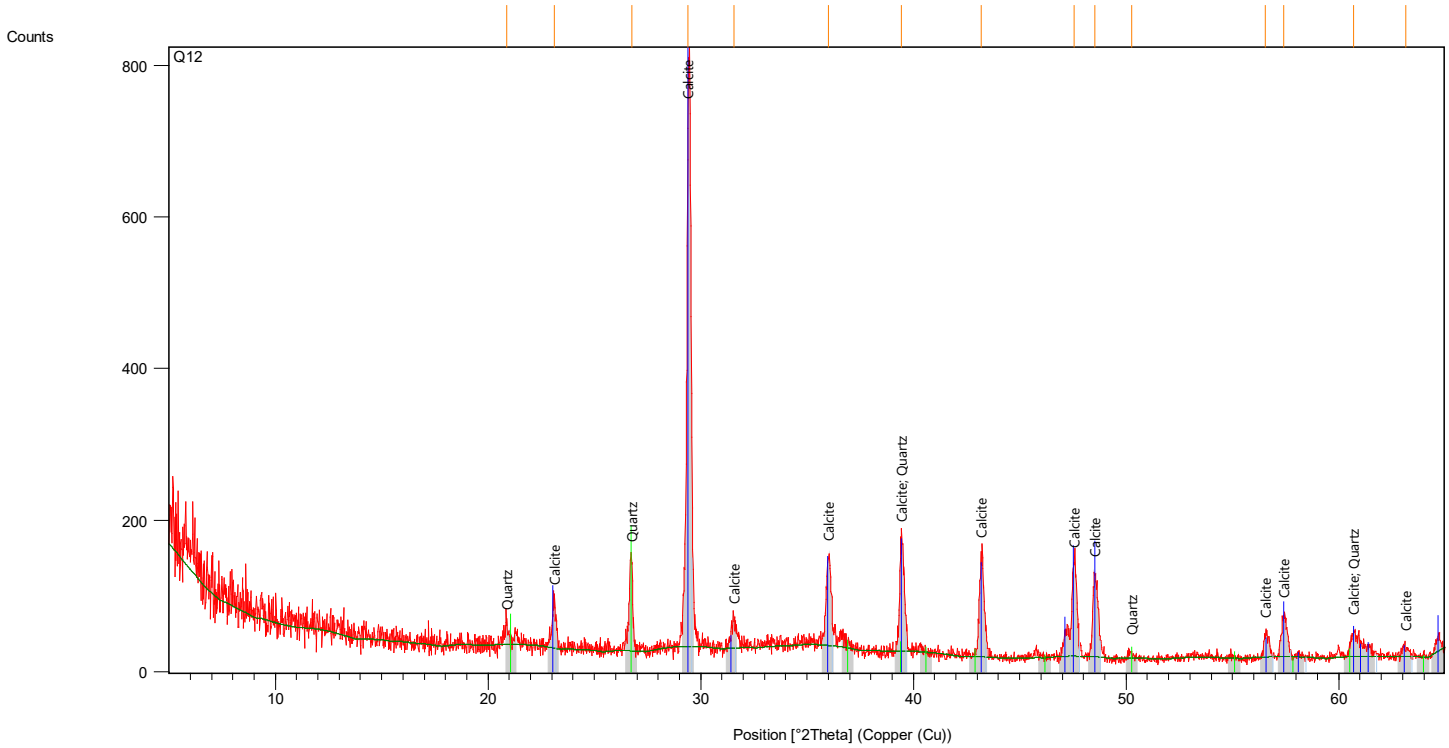


Pos. [°2Th.]	Height [cts]	FWHM Left [°2Th.]	d-spacing [Å]	Rel. Int. [%]
20.928740	301.413800	0.157440	4.24469	15.97
23.020130	37.211590	0.157440	3.86357	1.97
26.684160	1886.903000	0.177120	3.34080	100.00
32.953290	88.287890	0.118080	2.71816	4.68
36.590210	183.028900	0.118080	2.45591	9.70
39.511460	100.507700	0.137760	2.28081	5.33
40.306780	64.213540	0.196800	2.23762	3.40
42.413480	84.011670	0.137760	2.13122	4.45
45.813170	47.146370	0.196800	1.98067	2.50
50.165200	159.164500	0.157440	1.81857	8.44
54.859260	44.127680	0.196800	1.67355	2.34
59.890580	92.790260	0.157440	1.54443	4.92
61.653670	33.275030	0.157440	1.50443	1.76
64.035780	13.587180	0.236160	1.45409	0.72

Mineral Name	Chemical Formula
Quartz	Si O2

Peak at 33 deg is an artifact from our holder

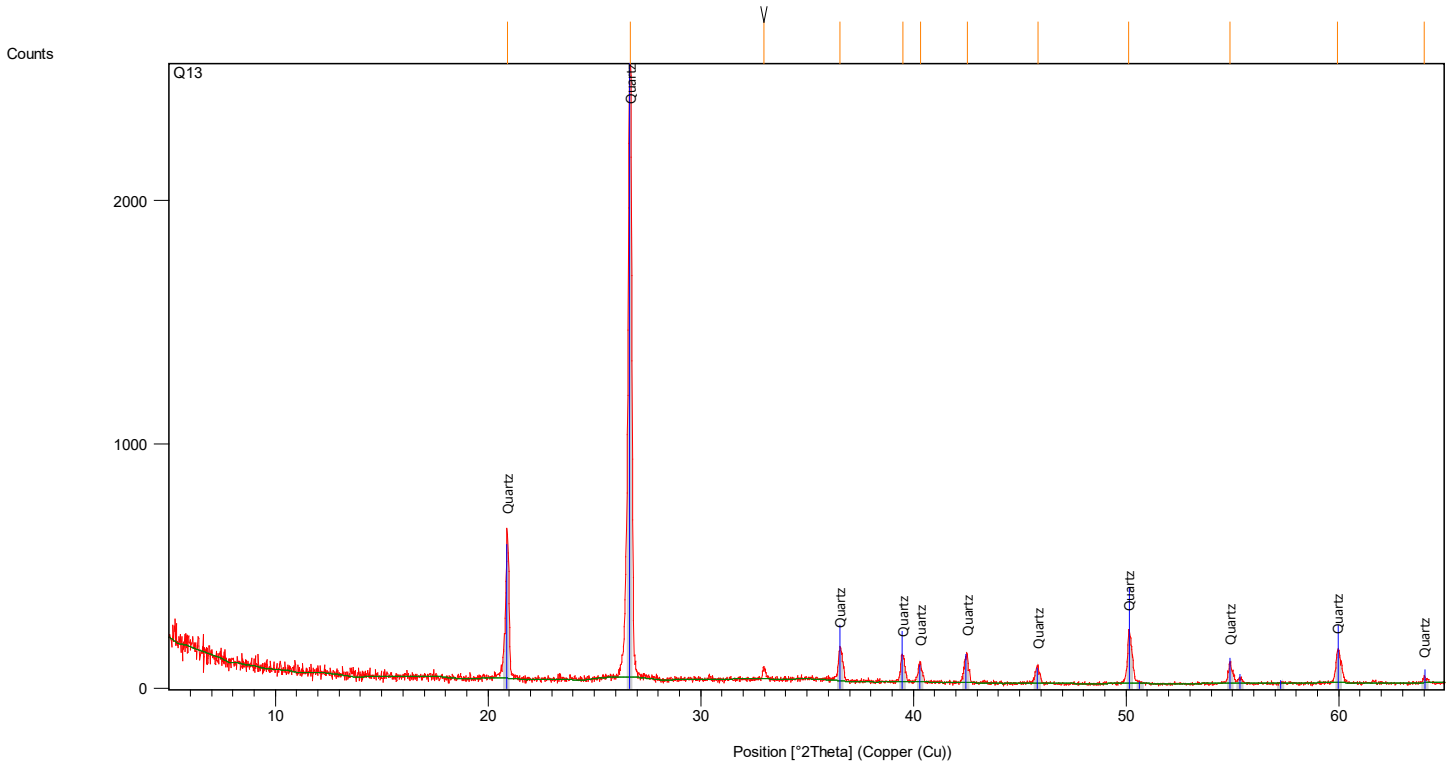
Sample Identification GC-AP-MW-16



Pos. [°2Th.]	Height [cts]	FWHM Left [°2Th.]	d-spacing [Å]	Rel. Int. [%]
20.890750	20.800470	0.472320	4.25232	2.97
23.103690	60.371560	0.157440	3.84978	8.63
26.763400	119.588800	0.137760	3.33109	17.09
29.414150	699.737100	0.177120	3.03665	100.00
31.569420	35.633300	0.314880	2.83408	5.09
36.003570	114.149600	0.157440	2.49457	16.31
39.442470	147.277700	0.236160	2.28464	21.05
43.199790	134.087700	0.236160	2.09424	19.16
47.538010	120.584800	0.236160	1.91276	17.23
48.532310	108.325800	0.137760	1.87587	15.48
50.278520	5.766099	0.472320	1.81474	0.82
56.550470	28.711530	0.118080	1.62745	4.10
57.417960	53.377010	0.314880	1.60491	7.63
60.693310	31.239120	0.236160	1.52591	4.46
63.135730	11.898730	0.314880	1.47264	1.70

Mineral Name	Chemical Formula	SemiQuant [%]
Calcite	Ca (C O3)	83
Quartz	Si O2	17

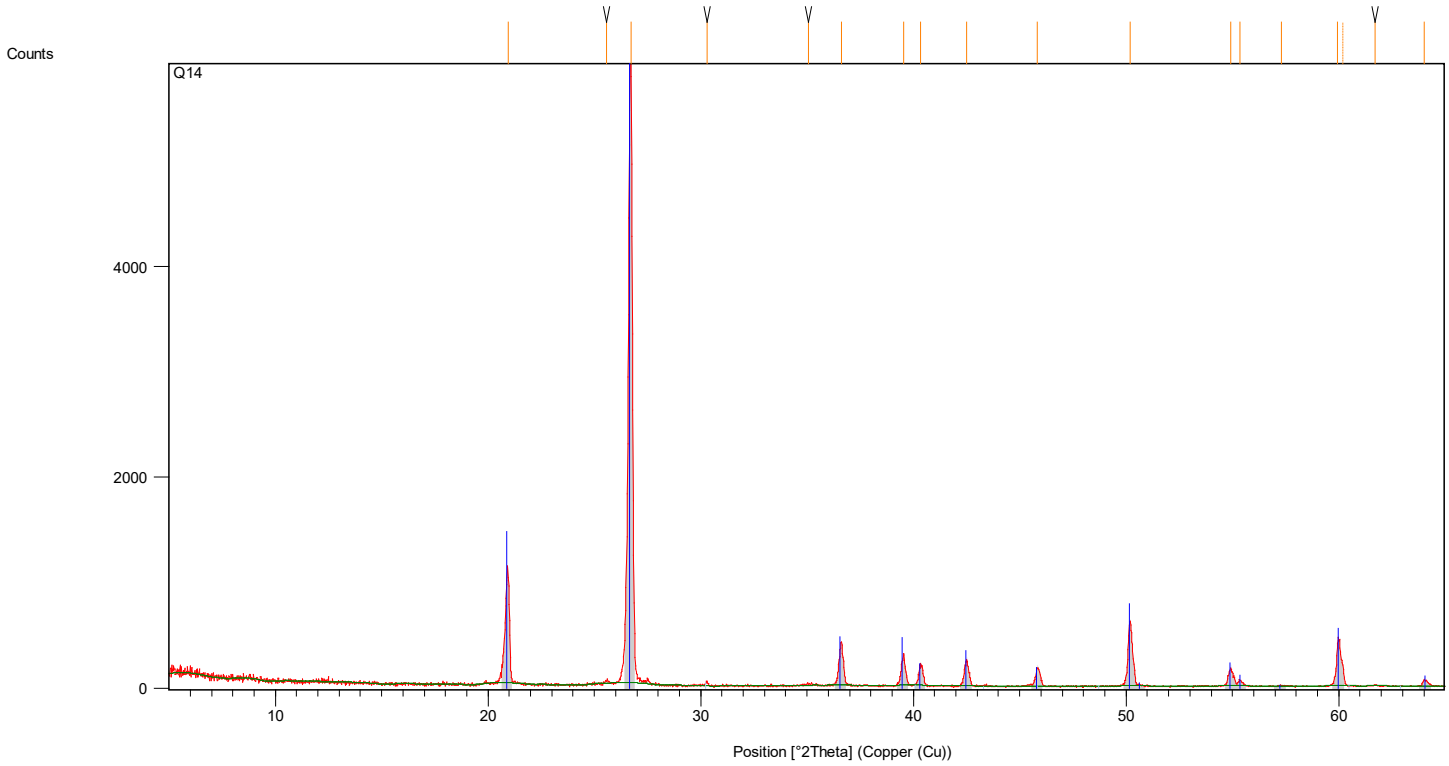
Sample Identification GC-AP-MW-17



Pos. [°2Th.]	Height [cts]	FWHM Left [°2Th.]	d-spacing [Å]	Rel. Int. [%]
20.921590	595.257500	0.137760	4.24612	23.64
26.695530	2517.674000	0.157440	3.33940	100.00
32.975030	44.920390	0.118080	2.71642	1.78
36.547000	140.693300	0.118080	2.45871	5.59
39.495880	110.662000	0.196800	2.28167	4.40
40.327300	72.845220	0.137760	2.23653	2.89
42.530240	117.694300	0.059040	2.12564	4.67
45.846590	65.620940	0.137760	1.97931	2.61
50.129280	218.467300	0.118080	1.81979	8.68
54.882140	80.033780	0.118080	1.67291	3.18
59.922260	125.427700	0.157440	1.54369	4.98
64.012170	25.136970	0.118080	1.45457	1.00

Mineral Name	Chemical Formula
Quartz	Si O2

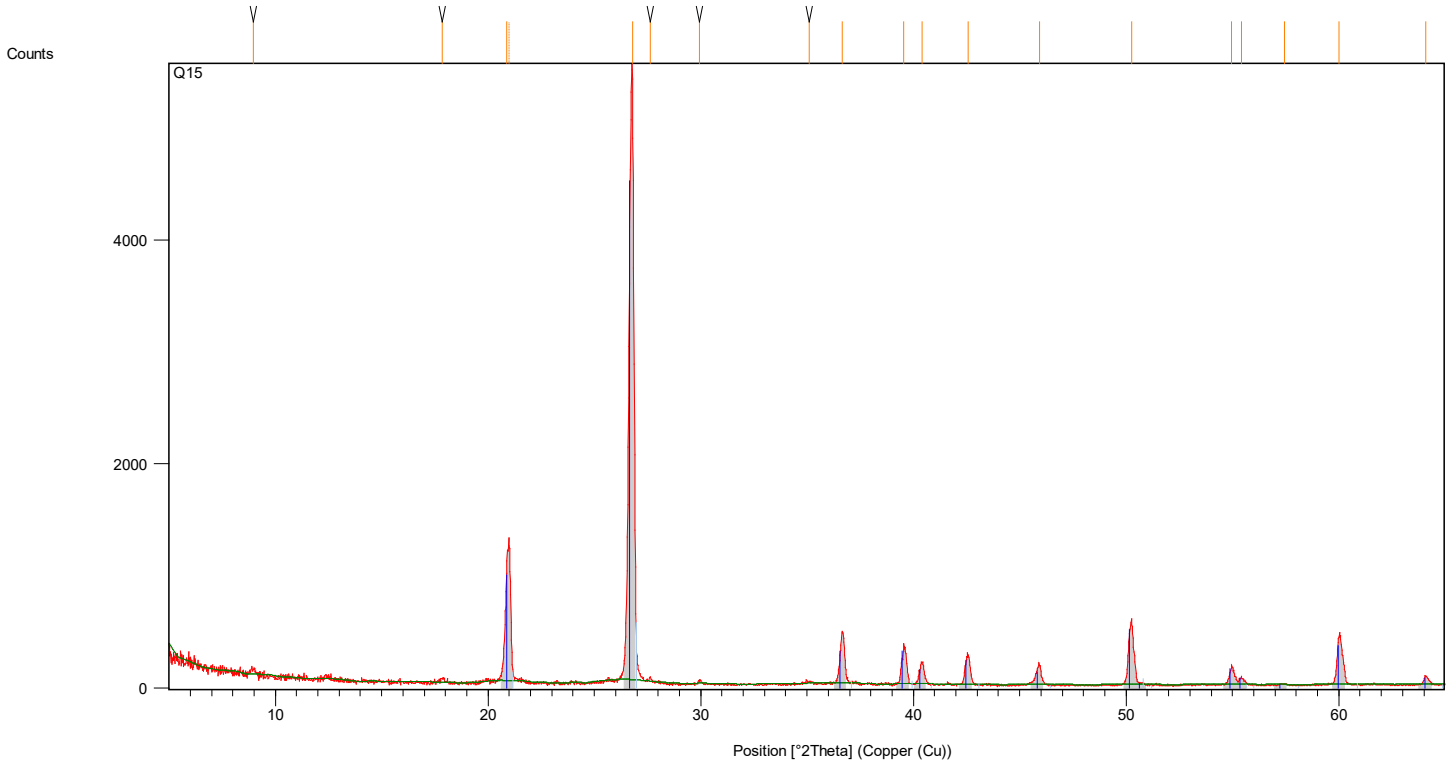
Sample Identification GC-AP-MW-23



Pos. [°2Th.]	Height [cts]	FWHM Left [°2Th.]	d-spacing [Å]	Rel. Int. [%]
20.944000	1031.031000	0.196800	4.24163	17.57
25.583130	22.627680	0.236160	3.48202	0.39
26.724150	5868.374000	0.196800	3.33589	100.00
30.284000	46.613600	0.118080	2.95138	0.79
35.075940	14.491650	0.472320	2.55838	0.25
36.622760	409.671100	0.216480	2.45380	6.98
39.547180	307.270500	0.177120	2.27883	5.24
40.348340	194.173800	0.236160	2.23541	3.31
42.505130	230.308000	0.118080	2.12684	3.92
45.808630	169.476700	0.157440	1.98086	2.89
50.172840	585.666300	0.157440	1.81831	9.98
54.914720	168.724700	0.118080	1.67199	2.88
55.347340	53.319570	0.196800	1.65995	0.91
57.292300	9.596630	0.472320	1.60813	0.16
59.951690	409.661800	0.168000	1.54172	6.98
60.175970	216.140100	0.096000	1.54033	3.68
61.690160	8.041494	0.384000	1.50238	0.14
64.016940	56.034050	0.240000	1.45327	0.95

Mineral Name	Chemical Formula
Quartz	Si O2

Sample Identification GC-AP-MW-29



Pos. [°2Th.]	Height [cts]	FWHM Left [°2Th.]	d-spacing [Å]	Rel. Int. [%]
8.974272	46.332650	0.472320	9.85409	0.98
17.830810	34.502270	0.236160	4.97456	0.73
20.892480	1085.059000	0.216000	4.24845	22.86
20.994000	1205.009000	0.144000	4.23864	25.39
26.814460	4745.545000	0.312000	3.32211	100.00
27.635230	38.930830	0.144000	3.22528	0.82
29.952180	33.909600	0.144000	2.98085	0.71
35.093670	22.873540	0.480000	2.55501	0.48
36.670000	456.721300	0.288000	2.44872	9.62
39.559840	350.793200	0.192000	2.27624	7.39
40.395390	198.295000	0.192000	2.23107	4.18
42.584950	263.554300	0.168000	2.12128	5.55
45.941460	177.397200	0.120000	1.97381	3.74
50.245000	590.622300	0.336000	1.81437	12.45
54.970360	176.737100	0.096000	1.66905	3.72
55.413940	62.985590	0.240000	1.65674	1.33
57.431240	9.058715	0.576000	1.60324	0.19
59.994270	414.971900	0.216000	1.54073	8.74
64.085160	78.973820	0.192000	1.45189	1.66

Mineral Name	Chemical Formula
Quartz	Si O2

Site ID	SAMPLE ID	Units	Al	Al Error	As	As Error	Bal	Bal Error	Ca	Ca Error	Ce	Ce Error	Cl	Cl Error	Co	Co Error	Fe	Fe Error	K	K Error	La	La Error	Mg	Mg Error	Mn
Greene County	GC-AC-MW-18	ppm	10275	654	3147	39	562877	2069	9406	384	- -	- -	1361	30	< LOD	251	231672	1252	3231	172	- -	- -	< LOD	6243	976
Greene County	GC-AP-MW-1	ppm	19152	816	336	11	505817	2434	760	163	- -	- -	722	27	< LOD	276	263635	1480	4352	196	- -	- -	< LOD	5007	1018
Greene County	GC-AP-MW-1 DUP	ppm	19791	839	323	11	500549	2455	764	164	- -	- -	725	27	< LOD	274	263424	1459	4220	195	- -	- -	< LOD	5363	1060
Greene County	GC-AP-MW-10	ppm	11455	711	517	13	560262	2128	15346	484	- -	- -	570	26	< LOD	256	234933	1315	3908	179	- -	- -	< LOD	6389	854
Greene County	GC-AP-MW-11	ppm	18092	796	644	15	571261	2102	2480	223	- -	- -	1387	31	< LOD	255	231158	1275	5412	202	- -	- -	< LOD	6031	1535
Greene County	GC-AP-MW-14	ppm	16979	884	1466	28	500425	2790	7050	379	- -	- -	1066	30	< LOD	314	331486	1969	4962	215	- -	- -	< LOD	6292	570
Greene County	GC-AP-MW-15	ppm	21828	670	12	2	512328	1511	1600	108	- -	- -	982	30	< LOD	73	16621	171	7803	136	- -	- -	< LOD	5006	< LOD
Greene County	GC-AP-MW-16	ppm	3240	1214	5128	62	478470	2735	245915	1658	- -	- -	1040	40	< LOD	291	212575	1462	817	131	- -	- -	< LOD	15452	1228
Greene County	GC-AP-MW-17	ppm	5331	580	2162	26	559937	1728	5879	278	- -	- -	7335	65	< LOD	196	153665	781	1632	128	- -	- -	< LOD	4755	353
Greene County	GC-AP-MW-23	ppm	16125	521	3	2	585303	1302	1432	89	- -	- -	153	21	< LOD	64	15215	153	4332	98	- -	- -	< LOD	3948	< LOD
Greene County	GC-AP-MW-24	ppm	17714	598	14	2	548114	1438	1235	104	- -	- -	1275	31	< LOD	101	37212	258	4098	120	- -	- -	< LOD	3071	< LOD
Greene County	GC-AP-MW-24 DUP	ppm	17398	599	14	3	543097	1476	1207	104	- -	- -	1337	31	< LOD	101	37174	261	4069	119	- -	- -	3629	2151	< LOD
Greene County	GC-AP-MW-29	ppm	13957	445	< LOD	3	583388	1354	359	61	- -	- -	171	18	< LOD	66	14963	157	4775	97	- -	- -	< LOD	2227	< LOD
Greene County	GC-AP-MW-5	ppm	24599	1058	3088	40	524983	2452	58253	884	- -	- -	577	29	< LOD	270	236347	1391	5188	205	- -	- -	8312	4580	3039

Site ID	SAMPLE ID	Units	Mn Error	Mo	Mo Error	Nb	Nb Error	Nd	Nd Error	P	P Error	Pr	Pr Error	S	S Error	Se	Se Error	Si	Si Error	Ti	Ti Error	Zn	Zn Error	Zr	Zr Error
Greene County	GC-AC-MW-18	ppm	78	< LOD	3	29	3	- -	- -	4172	143	- -	- -	1429	62	< LOD	6	166441	1031	995	78	166	16	95	4
Greene County	GC-AP-MW-1	ppm	82	11	3	14	3	- -	- -	1344	133	- -	- -	8082	114	< LOD	5	190032	1116	1331	82	749	30	91	4
Greene County	GC-AP-MW-1 DUP	ppm	82	11	3	14	3	- -	- -	1169	133	- -	- -	8109	115	< LOD	5	190973	1126	1257	83	746	30	91	4
Greene County	GC-AP-MW-10	ppm	78	69	4	16	3	- -	- -	5042	155	- -	- -	2159	72	< LOD	5	159211	1037	2342	89	406	22	344	7
Greene County	GC-AP-MW-11	ppm	87	341	6	19	3	- -	- -	8959	175	- -	- -	20495	187	< LOD	4	133294	917	2201	84	284	19	233	5
Greene County	GC-AP-MW-14	ppm	80	144	5	15	3	- -	- -	5253	150	- -	- -	1420	65	< LOD	6	120333	935	1489	92	187	20	151	5
Greene County	GC-AP-MW-15	ppm	65	< LOD	2	19	2	- -	- -	677	184	- -	- -	11841	136	< LOD	2	420521	1469	4252	54	186	12	443	5
Greene County	GC-AP-MW-16	ppm	100	8	3	6	3	- -	- -	2160	174	- -	- -	1176	94	< LOD	7	37471	673	367	101	153	18	< LOD	14
Greene County	GC-AP-MW-17	ppm	61	43	2	18	2	- -	- -	8746	194	- -	- -	3172	83	< LOD	4	244906	1203	964	63	99	12	79	3
Greene County	GC-AP-MW-23	ppm	63	< LOD	2	15	2	- -	- -	2297	1486	- -	- -	540	116	< LOD	2	368224	1477	5222	55	25	7	509	5
Greene County	GC-AP-MW-24	ppm	68	4	2	18	2	- -	- -	1044	174	- -	- -	6410	101	< LOD	2	379287	1407	2538	48	73	9	183	3
Greene County	GC-AP-MW-24 DUP	ppm	68	4	2	17	2	- -	- -	1224	175	- -	- -	6531	102	< LOD	2	380871	1418	2479	48	61	9	182	3
Greene County	GC-AP-MW-29	ppm	72	< LOD	2	15	2	- -	- -	924	144	- -	- -	150	38	< LOD	2	375108	1383	2818	39	25	7	354	4
Greene County	GC-AP-MW-5	ppm	112	11	2	18	3	- -	- -	2002	142	- -	- -	5513	108	< LOD	7	119517	949	1766	118	103	16	85	4

July 20, 2020 Service Request No:K2004421

Anthony Dalton-Atha
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: APC SSE

Dear Anthony,

Enclosed are the results of the sample(s) submitted to our laboratory May 29, 2020
For your reference, these analyses have been assigned our service request number **K2004421.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004421
Date Received: 05/29/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 05/29/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The sample was stored at minimum in accordance with the analytical method requirements.

Metals:

Method 6010C, 06/19/2020: Samples in this delivery group required dilution to non-target matrix components. Attempts to analyze the undiluted samples resulted in failed instrument QC check samples. The detection limits were elevated accordingly. No further corrective action was appropriate.

Approved by _____ Date 06/22/2020

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

PC MH

Cooler Receipt and Preservation Form

Client ANCHOR QEA Service Request K20 044221

Received: 5/29/2020 Opened: 5/29/2020 By: CG Unloaded: 5/29/2020 By: CG

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample 1	Sample 2	Sample 3	Sample 4	IR GUN	Cooler / COC ID NA	Tracking Number NA	Filed
—	10.7	12.0	10.6	9.6	IR02			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA Y N

   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
All "F2" samples	1-125mL, each				X	HNO_3	0.5mL	RE1-54-C	CG	1100 6/1/20

Notes, Discrepancies, & Resolutions: Temp okay - metals analyses

Chain of Custody Record & Laboratory Analysis Request

Date:	5/29/2020
Project Name:	APC SSE
Project Manager:	Anthony Dalton-Atha
email:	adalton-atha@anchorqea.com
Phone Number:	541-760-0851
Shipment Method:	Courier

ANCHOR QEA

Jessica Goin
6720 SW Macadam Ave
Suite 125
Portland OR 97219

Line	Field Sample ID	Collection Date	Collection Time	Matrix	No. of Containers	Arsenic	Lithium	Cobalt	Molybdenum	Iron											Comments/Preservation
16	GS-AP-MW-8_F4_016			Water	1	x	x		x	x											nitric acid
17	MR-AP-MW-3D_F4_017			Water	1	x	x	x		x											nitric acid
18	MR-AP-MW-4_F4_018			Water	1	x	x	x		x											nitric acid
19	MR-AP-MW-5_F4_019			Water	1	x	x	x		x											nitric acid
20	MW-1_F4_020			Water	1	x	x		x	x											nitric acid
21	MW-12_F4_021			Water	1	x	x		x	x											nitric acid
22	Blank_F4_022			Water	1	x	x	x	x	x											nitric acid
23	OLD-MW-2D-F4_012_DUP			Water	1	x	x		x	x											nitric acid

Notes: **CAUTION! F4 samples are concentrated (16N) nitric acid.**

Relinquished by:	Company:
Anthony Dalton-Atha	Anchor QEA
Signature/Print Name:	Date/Time:
	5/29/2020 10:00

Received by:	Company:
SWOLF	ACS
Signature/Print Name:	Date/Time:
	5/29/20 1145

Relinquished by:	Company:
Signature/Print Name:	Date/Time:

Received by:	Company:
Signature/Print Name:	Date/Time:

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Metals

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004421
Project:	APC SSE	**Date Collected:**	05/28/20 10:45
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	Blank_F4_022	**Basis:**	NA
Lab Code:	K2004421-011		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	ND	U	ug/L	21	5	1	06/19/20 17:56	06/09/20	
Cobalt	6010C	ND	U	ug/L	2.1	0.7	1	06/19/20 17:56	06/09/20	
Iron	6010C	**21**	**J**	ug/L	42	8	1	06/19/20 17:56	06/09/20	
Lithium	6010C	ND	U	ug/L	21	6	1	06/19/20 17:56	06/09/20	
Molybdenum	6010C	ND	U	ug/L	8.4	2.1	1	06/19/20 17:56	06/09/20	

QC Summary Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com

Metals

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004421
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2007746-02		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	ND	U	ug/L	21	5	1	06/19/20 16:24	06/09/20	
Cobalt	6010C	ND	U	ug/L	2.1	0.7	1	06/19/20 16:24	06/09/20	
Iron	6010C	ND	U	ug/L	42	8	1	06/19/20 16:24	06/09/20	
Lithium	6010C	ND	U	ug/L	21	6	1	06/19/20 16:24	06/09/20	
Molybdenum	6010C	ND	U	ug/L	8.4	2.1	1	06/19/20 16:24	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004421
Project:	APC SSE	**Date Collected:**	05/28/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/19/20
		Date Extracted:	06/9/20

Matrix Spike Summary
Total Metals

Sample Name:	OLD-MW-2D_F4_012	**Units:**	ug/L
Lab Code:	K2004421-001	**Basis:**	NA
Analysis Method:	6010C		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2007746-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	960	1000	96	75-125
Cobalt	74	513	500	88	75-125
Iron	1050000	1020000	1000	-2168 #	75-125
Lithium	ND U	9900	10000	99	75-125
Molybdenum	ND U	952	1000	95	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004421
Project	APC SSE	**Date Collected:**	05/28/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/19/20

Replicate Sample Summary
Total Metals

Sample Name:	OLD-MW-2D_F4_012	**Units:**	ug/L
Lab Code:	K2004421-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2007746-03 Result	Average	RPD	RPD Limit
Arsenic	6010C	210	50	ND U	ND U	ND	-	20
Cobalt	6010C	11	4	74	76	75	3	20
Iron	6010C	110	40	1050000	1050000	1050000	<1	20
Lithium	6010C	110	30	ND U	ND U	ND	-	20
Molybdenum	6010C	84	21	ND U	ND U	ND	-	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004421
Date Analyzed: 06/19/20

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2007746-01

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	2540	2500	102	80-120
Cobalt	6010C	1190	1250	95	80-120
Iron	6010C	2340	2500	93	80-120
Lithium	6010C	9940	10000	99	80-120
Molybdenum	6010C	1010	1000	101	80-120

July 20, 2020 Service Request No:K2004415

Anthony Dalton-Atha
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: APC SSE

Dear Anthony,

Enclosed are the results of the sample(s) submitted to our laboratory May 29, 2020
For your reference, these analyses have been assigned our service request number **K2004415.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

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Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004415
Date Received: 05/29/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four water samples were received for analysis at ALS Environmental on 05/29/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____ Date 06/15/2020

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Chain of Custody Record & Laboratory Analysis Request

Date:	5/29/2020
Project Name:	APC SSE
Project Manager:	Anthony Dalton-Atha
email:	adalton-atha@anchorqea.com
Phone Number:	541-760-0851
Shipment Method:	Courier

ANCHOR QEA

Jessica Goin
6720 SW Macadam Ave
Suite 125
Portland OR 97219

Line	Field Sample ID	Collection Date	Collection Time	Matrix	No. of Containers	Arsenic	Lithium	Cobalt		Molybdenum												Comments/Preservation
1	BY-AP-MW-11_F1_001	5/26/2020	9:00	Water	1	x		x														nitric acid
2	BY-AP-MW-12_F1_002	5/26/2020	9:05	Water	1	x		x														nitric acid
3	BY-AP-MW-13_F1_003	5/26/2020	9:10	Water	1	x		x														nitric acid
4	BY-AP-MW-2_F1_004	5/26/2020	9:15	Water	1	x		x														nitric acid
5	BY-AP-MW-7_F1_005	5/26/2020	9:20	Water	1	x		x														nitric acid
6	BY-AP-MW-9_F1_006	5/26/2020	9:25	Water	1	x		x														nitric acid
7	GC-AP-MW-1_F1_007	5/26/2020	9:30	Water	1	x	x	x														nitric acid
8	GC-AP-MW-11_F1_008	5/26/2020	9:35	Water	1	x	x	x														nitric acid
9	GC-AP-MW-16_F1_009	5/26/2020	9:40	Water	1	x	x	x														nitric acid
10	OLD-MW-11S_F1_010	5/26/2020	9:45	Water	1	x	x			x												nitric acid
11	OLD-MW-11_F1_011	5/26/2020	9:50	Water	1	x	x			x												nitric acid
12	OLD-MW-2D_F1_012	5/26/2020	9:55	Water	1	x	x			x												nitric acid
13	GC-AP-MW-17_F1_013	5/26/2020	10:00	Water	1	x	x	x														nitric acid
14	GN-AP-MW-5_F1_014	5/26/2020	10:05	Water	1	x	x			x												nitric acid
15	GS-AP-MW-6D_F1_015	5/26/2020	10:10	Water	1	x	x			x												nitric acid

Notes:

Relinquished by:	Company:
Anthony Dalton-Atha	Anchor QEA
Signature/Print Name:	Date/Time:
	5/29/2020 10:00

Received by:	Company:
[signature]	ARS
Signature/Print Name:	Date/Time:
	5/29/20 1145

Relinquished by:	Company:
Signature/Print Name:	Date/Time:

Received by:	Company:
Signature/Print Name:	Date/Time:

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PC MH

Cooler Receipt and Preservation Form

Client ANCHOR QEA Service Request K20 04415

Received: 5/29/2020 Opened: 5/29/2020 By: CG Unloaded: 5/29/2020 By: CG

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample 1	Sample 2	Sample 3	Sample 4	IR GUN	Cooler / COC ID NA	Tracking Number NA	Filed
—	10.7	12.0	10.6	9.6	IR02			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA Y N

   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
All "F2" samples	1-125mL, each				X	HNO_3	0.5mL	RE1-54-C	CG	1100 6/1/20

Notes, Discrepancies, & Resolutions: Temp okay - metals analyses

Miscellaneous Forms

ALS Environmental—Kelso Laboratory
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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Sample Results

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004415
Project:	APC SSE	**Date Collected:**	05/26/20 09:30
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-1_F1_007	**Basis:**	NA
Lab Code:	K2004415-007		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**6 J**	ug/L	21	5	1	06/11/20 14:59	06/09/20	
Cobalt	6010C	**173**	ug/L	2.1	0.7	1	06/11/20 14:59	06/09/20	
Lithium	6010C	ND U	ug/L	21	6	1	06/11/20 14:59	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004415
Project:	APC SSE	**Date Collected:**	05/26/20 09:35
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-11_F1_008	**Basis:**	NA
Lab Code:	K2004415-008		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	ND	U	ug/L	21	5	1	06/11/20 15:02	06/09/20	
Cobalt	6010C	**140**		ug/L	2.1	0.7	1	06/11/20 15:02	06/09/20	
Lithium	6010C	**8**	**J**	ug/L	21	6	1	06/11/20 15:02	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004415
Project:	APC SSE	**Date Collected:**	05/26/20 09:40
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-16_F1_009	**Basis:**	NA
Lab Code:	K2004415-009		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**215**	ug/L	21	5	1	06/11/20 15:05	06/09/20	
Cobalt	6010C	**1.9 J**	ug/L	2.1	0.7	1	06/11/20 15:05	06/09/20	
Lithium	6010C	**7 J**	ug/L	21	6	1	06/11/20 15:05	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004415
Project:	APC SSE	**Date Collected:**	05/26/20 10:00
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-17_F1_013	**Basis:**	NA
Lab Code:	K2004415-013		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**15 J**	ug/L	21	5	1	06/11/20 15:16	06/09/20	
Cobalt	6010C	**22.3**	ug/L	2.1	0.7	1	06/11/20 15:16	06/09/20	
Lithium	6010C	**7 J**	ug/L	21	6	1	06/11/20 15:16	06/09/20	

QC Summary Forms

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004415
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2007740-02		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	ND	U	ug/L	21	5	1	06/11/20 14:18	06/09/20	
Cobalt	6010C	ND	U	ug/L	2.1	0.7	1	06/11/20 14:18	06/09/20	
Lithium	6010C	ND	U	ug/L	21	6	1	06/11/20 14:18	06/09/20	
Molybdenum	6010C	ND	U	ug/L	8.4	2.1	1	06/11/20 14:18	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004415
Project:	APC SSE	**Date Collected:**	05/26/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/11/20
		Date Extracted:	06/9/20

Matrix Spike Summary
Total Metals

Sample Name:	BY-AP-MW-11_F1_001	**Units:**	ug/L
Lab Code:	K2004415-001	**Basis:**	NA
Analysis Method:	6010C		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2007740-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	13 J	861	1000	85	75-125
Cobalt	0.9 J	440	500	88	75-125
Lithium	ND U	9360	10000	94	75-125
Molybdenum	10.8	1010	1000	100	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004415
Project	APC SSE	**Date Collected:**	05/26/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/11/20

Replicate Sample Summary
Total Metals

Sample Name:	BY-AP-MW-11_F1_001	**Units:**	ug/L
Lab Code:	K2004415-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2007740-03 Result	Average	RPD	RPD Limit
Arsenic	6010C	21	5	13 J	ND U	NC	NC	20
Cobalt	6010C	2.1	0.7	0.9 J	1.1 J	1.0	20	20
Lithium	6010C	21	6	ND U	ND U	ND	-	20
Molybdenum	6010C	8.4	2.1	10.8	ND U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004415
Date Analyzed: 06/11/20

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2007740-01

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	2440	2500	98	80-120
Cobalt	6010C	1200	1250	96	80-120
Lithium	6010C	9280	10000	93	80-120
Molybdenum	6010C	1010	1000	101	80-120

July 20, 2020 Service Request No:K2004416

Anthony Dalton-Atha
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: APC SSE

Dear Anthony,

Enclosed are the results of the sample(s) submitted to our laboratory May 29, 2020
For your reference, these analyses have been assigned our service request number **K2004416.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
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1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004416
Date Received: 05/29/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four water samples were received for analysis at ALS Environmental on 05/29/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____ Date 06/17/2020

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

PC MH

Cooler Receipt and Preservation Form

Client ANCHOR QEA Service Request K2004416

Received: 5/29/2020 Opened: 5/29/2020 By: CG Unloaded: 5/29/2020 By: CG

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample 1	Sample 2	Sample 3	Sample 4	IR GUN	Cooler / COC ID NA	Tracking Number NA	Filed
—	10.7	12.0	10.6	9.6	IR02			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA Y N

   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
All "F2" samples	1-125mL, each				X	HNO_3	0.5mL	RE1-54-C	CG	1100 6/1/20

Notes, Discrepancies, & Resolutions: Temp okay - metals analyses

Chain of Custody Record & Laboratory Analysis Request

Date:	5/29/2020
Project Name:	APC SSE
Project Manager:	Anthony Dalton-Atha
email:	adalton-atha@anchorqea.com
Phone Number:	541-760-0851
Shipment Method:	Courier

ANCHOR QEA

Jessica Goin
6720 SW Macadam Ave
Suite 125
Portland OR 97219

Line	Field Sample ID	Collection Date	Collection Time	Matrix	No. of Containers	Arsenic	Lithium	Cobalt	Molybdenum	Iron	Manganese	Calcium										Comments/Preservation
1	BY-AP-MW-11_F2_001	5/27/2020	9:00	Water	1	x		x		x	x	x										nitric acid
2	BY-AP-MW-12_F2_002	5/27/2020	9:05	Water	1	x		x		x	x	x										nitric acid
3	BY-AP-MW-13_F2_003	5/27/2020	9:10	Water	1	x		x		x	x	x										nitric acid
4	BY-AP-MW-2_F2_004	5/27/2020	9:15	Water	1	x		x		x	x	x										nitric acid
5	BY-AP-MW-7_F2_005	5/27/2020	9:20	Water	1	x		x		x	x	x										nitric acid
6	BY-AP-MW-9_F2_006	5/27/2020	9:25	Water	1	x		x		x	x	x										nitric acid
7	GC-AP-MW-1_F2_007	5/27/2020	9:30	Water	1	x	x	x		x	x	x										nitric acid
8	GC-AP-MW-11_F2_008	5/27/2020	9:35	Water	1	x	x	x		x	x	x										nitric acid
9	GC-AP-MW-16_F2_009	5/27/2020	9:40	Water	1	x	x	x		x	x	x										nitric acid
10	OLD-MW-11S_F2_010	5/27/2020	9:45	Water	1	x	x		x	x	x	x										nitric acid
11	OLD-MW-11_F2_011	5/27/2020	9:50	Water	1	x	x		x	x	x	x										nitric acid
12	OLD-MW-2D_F2_012	5/27/2020	9:55	Water	1	x	x		x	x	x	x										nitric acid
13	GC-AP-MW-17_F2_013	5/27/2020	10:00	Water	1	x	x	x		x	x	x										nitric acid
14	GN-AP-MW-5_F2_014	5/27/2020	10:05	Water	1	x	x		x	x	x	x										nitric acid
15	GS-AP-MW-6D_F2_015	5/27/2020	10:10	Water	1	x	x		x	x	x	x										nitric acid

Notes:

Relinquished by:	Company:
Anthony Dalton-Atha	Anchor QEA
Signature/Print Name:	Date/Time:
	5/29/2020 10:00

Received by:	Company:
Swolf	ALS
Signature/Print Name:	Date/Time:
A	5/29/20 1145

Relinquished by:	Company:
Signature/Print Name:	Date/Time:

Received by:	Company:
Signature/Print Name:	Date/Time:

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Sample Results

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004416
Project:	APC SSE	**Date Collected:**	05/27/20 09:30
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-1_F2_007	**Basis:**	NA
Lab Code:	K2004416-010		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**344**	ug/L	21	5	1	06/12/20 14:25	06/09/20	
Calcium	6010C	**367**	ug/L	21	3	1	06/11/20 16:11	06/09/20	
Cobalt	6010C	**46.7**	ug/L	2.1	0.7	1	06/11/20 16:11	06/09/20	
Iron	6010C	**2460**	ug/L	21	8	1	06/12/20 14:25	06/09/20	
Lithium	6010C	ND U	ug/L	21	6	1	06/11/20 16:11	06/09/20	
Manganese	6010C	**214**	ug/L	1.1	0.2	1	06/11/20 16:11	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004416
Project:	APC SSE	**Date Collected:**	05/27/20 09:35
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-11_F2_008	**Basis:**	NA
Lab Code:	K2004416-011		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**1070**		ug/L	21	5	1	06/12/20 14:27	06/09/20	
Calcium	6010C	**668**		ug/L	21	3	1	06/11/20 16:14	06/09/20	
Cobalt	6010C	**26.0**		ug/L	2.1	0.7	1	06/11/20 16:14	06/09/20	
Iron	6010C	**912**		ug/L	21	8	1	06/12/20 14:27	06/09/20	
Lithium	6010C	**8**	**J**	ug/L	21	6	1	06/11/20 16:14	06/09/20	
Manganese	6010C	**393**		ug/L	1.1	0.2	1	06/11/20 16:14	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004416
Project:	APC SSE	**Date Collected:**	05/27/20 09:40
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-16_F2_009	**Basis:**	NA
Lab Code:	K2004416-012		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**10900**	ug/L	21	5	1	06/12/20 14:31	06/09/20	
Calcium	6010C	**9080**	ug/L	21	3	1	06/11/20 16:18	06/09/20	
Cobalt	6010C	**4.9**	ug/L	2.1	0.7	1	06/11/20 16:18	06/09/20	
Iron	6010C	**264**	ug/L	21	8	1	06/12/20 14:31	06/09/20	
Lithium	6010C	**46**	ug/L	21	6	1	06/11/20 16:18	06/09/20	
Manganese	6010C	**322**	ug/L	1.1	0.2	1	06/11/20 16:18	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004416
Project:	APC SSE	**Date Collected:**	05/27/20 10:00
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-17_F2_013	**Basis:**	NA
Lab Code:	K2004416-016		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**3700**	ug/L	21	5	1	06/15/20 12:26	06/09/20	
Calcium	6010C	**4250**	ug/L	21	3	1	06/15/20 12:26	06/09/20	
Cobalt	6010C	**19.1**	ug/L	2.1	0.7	1	06/15/20 12:26	06/09/20	
Iron	6010C	**951**	ug/L	42	8	1	06/15/20 12:26	06/09/20	
Lithium	6010C	ND U	ug/L	21	6	1	06/15/20 12:26	06/09/20	
Manganese	6010C	**408**	ug/L	1.1	0.2	1	06/15/20 12:26	06/09/20	

QC Summary Forms

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ALS Group USA, Corp.
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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004416
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2007741-02		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	ND	U	ug/L	21	5	1	06/11/20 15:02	06/09/20	
Calcium	6010C	**3**	**J**	ug/L	21	3	1	06/11/20 15:02	06/09/20	
Cobalt	6010C	ND	U	ug/L	2.1	0.7	1	06/11/20 15:02	06/09/20	
Iron	6010C	ND	U	ug/L	21	8	1	06/11/20 15:02	06/09/20	
Lithium	6010C	ND	U	ug/L	21	6	1	06/11/20 15:02	06/09/20	
Manganese	6010C	**0.4**	**J**	ug/L	1.1	0.2	1	06/11/20 15:02	06/09/20	
Molybdenum	6010C	ND	U	ug/L	8.4	2.1	1	06/11/20 15:02	06/09/20	

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dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004416
Project:	APC SSE	**Date Collected:**	05/26/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/11/20
		Date Extracted:	06/9/20

Matrix Spike Summary
Total Metals

Sample Name:	MW-12_F1_021	**Units:**	ug/L
Lab Code:	K2004416-001	**Basis:**	NA
Analysis Method:	6010C		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2007741-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	916	1000	92	75-125
Calcium	4060	13300	10000	93	75-125
Cobalt	16.9	427	500	82	75-125
Iron	62	975	1000	91	75-125
Lithium	ND U	10000	10000	100	75-125
Manganese	287	774	500	97	75-125
Molybdenum	52.0	999	1000	95	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004416
Project	APC SSE	**Date Collected:**	05/26/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/11/20

Replicate Sample Summary
Total Metals

Sample Name:	MW-12_F1_021	**Units:**	ug/L
Lab Code:	K2004416-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2007741-03 Result	Average	RPD	RPD Limit
Arsenic	6010C	21	5	ND U	ND U	ND	-	20
Calcium	6010C	21	3	4060	4050	4060	<1	20
Cobalt	6010C	2.1	0.7	16.9	17.9	17.4	6	20
Iron	6010C	21	8	62	62	62	<1	20
Lithium	6010C	21	6	ND U	ND U	ND	-	20
Manganese	6010C	1.1	0.2	287	290	289	1	20
Molybdenum	6010C	8.4	2.1	52.0	52.3	52.2	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004416
Date Analyzed: 06/11/20

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2007741-01

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	2790	2500	111	80-120
Calcium	6010C	12600	12500	101	80-120
Cobalt	6010C	1230	1250	98	80-120
Iron	6010C	2490	2500	99	80-120
Lithium	6010C	9750	10000	98	80-120
Manganese	6010C	1250	1250	100	80-120
Molybdenum	6010C	1040	1000	104	80-120

July 20, 2020 Service Request No:K2004418

Anthony Dalton-Atha
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: APC SSE

Dear Anthony,

Enclosed are the results of the sample(s) submitted to our laboratory May 29, 2020
For your reference, these analyses have been assigned our service request number **K2004418.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

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www.alsglobal.com

1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004418
Date Received: 05/29/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four water samples were received for analysis at ALS Environmental on 05/29/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

Method 6010C, 06/19/2020: Samples in this delivery group required dilution to non-target matrix components. Attempts to analyze the undiluted samples resulted in failed instrument QC check samples. The detection limits were elevated accordingly. No further corrective action was appropriate.

Approved by _____ Date 06/22/2020

Sample Receipt Information

ALS Environmental—Kelso Laboratory
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Chain of Custody Record & Laboratory Analysis Request

Date:	5/29/2020
Project Name:	APC SSE
Project Manager:	Anthony Dalton-Atha
email:	adalton-atha@anchorqea.com
Phone Number:	541-760-0851
Shipment Method:	Courier

ANCHOR QEA

Jessica Goin
6720 SW Macadam Ave
Suite 125
Portland OR 97219

Line	Field Sample ID	Collection Date	Collection Time	Matrix	No. of Containers	Arsenic	Lithium	Cobalt	Molybdenum	Iron	Manganese	Calcium										Comments/Preservation
1	BY-AP-MW-11_F2_001	5/27/2020	9:00	Water	1	x		x		x	x	x										nitric acid
2	BY-AP-MW-12_F2_002	5/27/2020	9:05	Water	1	x		x		x	x	x										nitric acid
3	BY-AP-MW-13_F2_003	5/27/2020	9:10	Water	1	x		x		x	x	x										nitric acid
4	BY-AP-MW-2_F2_004	5/27/2020	9:15	Water	1	x		x		x	x	x										nitric acid
5	BY-AP-MW-7_F2_005	5/27/2020	9:20	Water	1	x		x		x	x	x										nitric acid
6	BY-AP-MW-9_F2_006	5/27/2020	9:25	Water	1	x		x		x	x	x										nitric acid
7	GC-AP-MW-1_F2_007	5/27/2020	9:30	Water	1	x	x	x		x	x	x										nitric acid
8	GC-AP-MW-11_F2_008	5/27/2020	9:35	Water	1	x	x	x		x	x	x										nitric acid
9	GC-AP-MW-16_F2_009	5/27/2020	9:40	Water	1	x	x	x		x	x	x										nitric acid
10	OLD-MW-11S_F2_010	5/27/2020	9:45	Water	1	x	x		x	x	x	x										nitric acid
11	OLD-MW-11_F2_011	5/27/2020	9:50	Water	1	x	x		x	x	x	x										nitric acid
12	OLD-MW-2D_F2_012	5/27/2020	9:55	Water	1	x	x		x	x	x	x										nitric acid
13	GC-AP-MW-17_F2_013	5/27/2020	10:00	Water	1	x	x	x		x	x	x										nitric acid
14	GN-AP-MW-5_F2_014	5/27/2020	10:05	Water	1	x	x		x	x	x	x										nitric acid
15	GS-AP-MW-6D_F2_015	5/27/2020	10:10	Water	1	x	x		x	x	x	x										nitric acid

Notes:

Relinquished by:	Company:
Anthony Dalton-Atha	Anchor QEA
Signature/Print Name:	Date/Time:
	5/29/2020 10:00

Received by:	Company:
Swoff	ALS
Signature/Print Name:	Date/Time:
A	5/29/20 1145

Relinquished by:	Company:
Signature/Print Name:	Date/Time:

Received by:	Company:
Signature/Print Name:	Date/Time:

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PC MH

Cooler Receipt and Preservation Form

Client ANCHOR QEA Service Request K20 04418

Received: 5/29/2020 Opened: 5/29/2020 By: CG Unloaded: 5/29/2020 By: CG

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample 1	Sample 2	Sample 3	Sample 4	IR GUN	Cooler / COC ID NA	Tracking Number NA	Filed
—	10.7	12.0	10.6	9.6	IR02			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA Y N

   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
All "F2" samples	1-125mL, each				X	HNO_3	0.5mL	RE1-54-C	CG	1100 6/4/20

Notes, Discrepancies, & Resolutions: Temp okay - metals analyses

Miscellaneous Forms

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Sample Results

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Metals

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ALS Group USA, Corp.
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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004418
Project:	APC SSE	**Date Collected:**	05/28/20 09:30
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-1_F3_007	**Basis:**	NA
Lab Code:	K2004418-013		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6010C	**3850**	ug/L	110	30	5	06/19/20 12:43	06/09/20	
Arsenic	6010C	**120**	ug/L	110	30	5	06/19/20 12:43	06/09/20	
Cobalt	6010C	**108**	ug/L	11	4	5	06/19/20 12:43	06/09/20	
Iron	6010C	**15900**	ug/L	210	40	5	06/19/20 12:43	06/09/20	
Lithium	6010C	ND U	ug/L	110	30	5	06/19/20 12:43	06/09/20	
Manganese	6010C	**273**	ug/L	5.3	1.1	5	06/19/20 12:43	06/09/20	

ALS Group USA, Corp.
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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004418
Project:	APC SSE	**Date Collected:**	05/28/20 09:35
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-11_F3_008	**Basis:**	NA
Lab Code:	K2004418-014		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6010C	**790**	ug/L	110	30	5	06/19/20 12:45	06/09/20	
Arsenic	6010C	**170**	ug/L	110	30	5	06/19/20 12:45	06/09/20	
Cobalt	6010C	**87**	ug/L	11	4	5	06/19/20 12:45	06/09/20	
Iron	6010C	**15200**	ug/L	210	40	5	06/19/20 12:45	06/09/20	
Lithium	6010C	ND U	ug/L	110	30	5	06/19/20 12:45	06/09/20	
Manganese	6010C	**1410**	ug/L	5.3	1.1	5	06/19/20 12:45	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004418
Project:	APC SSE	**Date Collected:**	05/28/20 09:40
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-16_F3_009	**Basis:**	NA
Lab Code:	K2004418-015		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6010C	ND	U	ug/L	110	30	5	06/19/20 12:48	06/09/20	
Arsenic	6010C	**1600**		ug/L	110	30	5	06/19/20 12:48	06/09/20	
Cobalt	6010C	**7**	**J**	ug/L	11	4	5	06/19/20 12:48	06/09/20	
Iron	6010C	**1750**		ug/L	210	40	5	06/19/20 12:48	06/09/20	
Lithium	6010C	ND	U	ug/L	110	30	5	06/19/20 12:48	06/09/20	
Manganese	6010C	**435**		ug/L	5.3	1.1	5	06/19/20 12:48	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004418
Project:	APC SSE	**Date Collected:**	05/28/20 10:00
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-17_F3_013	**Basis:**	NA
Lab Code:	K2004418-019		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6010C	**530**	ug/L	110	30	5	06/19/20 12:58	06/09/20	
Arsenic	6010C	**710**	ug/L	110	30	5	06/19/20 12:58	06/09/20	
Cobalt	6010C	**44**	ug/L	11	4	5	06/19/20 12:58	06/09/20	
Iron	6010C	**19900**	ug/L	210	40	5	06/19/20 12:58	06/09/20	
Lithium	6010C	ND U	ug/L	110	30	5	06/19/20 12:58	06/09/20	
Manganese	6010C	**863**	ug/L	5.3	1.1	5	06/19/20 12:58	06/09/20	

QC Summary Forms

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004418
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2007742-02		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aluminum	6010C	ND	U	ug/L	21	5	1	06/19/20 11:09	06/09/20	
Arsenic	6010C	ND	U	ug/L	21	5	1	06/19/20 11:09	06/09/20	
Calcium	6010C	**8**	**J**	ug/L	21	3	1	06/19/20 11:09	06/09/20	
Cobalt	6010C	ND	U	ug/L	2.1	0.7	1	06/19/20 11:09	06/09/20	
Iron	6010C	ND	U	ug/L	21	8	1	06/19/20 11:09	06/09/20	
Lithium	6010C	ND	U	ug/L	21	6	1	06/19/20 11:09	06/09/20	
Manganese	6010C	ND	U	ug/L	1.1	0.2	1	06/19/20 11:09	06/09/20	
Molybdenum	6010C	ND	U	ug/L	8.4	2.1	1	06/19/20 11:09	06/09/20	

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004418
Project:	APC SSE	**Date Collected:**	05/27/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/19/20
		Date Extracted:	06/9/20

Matrix Spike Summary
Total Metals

Sample Name:	MR-AP-MW-4_F2_018	**Units:**	ug/L
Lab Code:	K2004418-001	**Basis:**	NA
Analysis Method:	6010C		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2007742-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Aluminum	790	2470	2000	84	75-125
Arsenic	ND U	980	1000	98	75-125
Calcium	9980	19600	10000	97	75-125
Cobalt	14	481	500	93	75-125
Iron	300	1270	1000	97	75-125
Lithium	ND U	10300	10000	103	75-125
Manganese	1960	2350	500	78	75-125
Molybdenum	24 J	1050	1000	102	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004418
Project	APC SSE	**Date Collected:**	05/27/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/19/20

Replicate Sample Summary
Total Metals

Sample Name:	MR-AP-MW-4_F2_018	**Units:**	ug/L
Lab Code:	K2004418-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2007742-03 Result	Average	RPD	RPD Limit
Aluminum	6010C	110	30	790	760	780	4	20
Arsenic	6010C	110	30	ND U	ND U	ND	-	20
Calcium	6010C	110	20	9980	9390	9690	6	20
Cobalt	6010C	11	4	14	11	13	24 #	20
Iron	6010C	110	40	300	310	310	3	20
Lithium	6010C	110	30	ND U	ND U	ND	-	20
Manganese	6010C	5.3	1.1	1960	1850	1910	6	20
Molybdenum	6010C	42	11	24 J	18 J	21	29 #	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004418
Date Analyzed: 06/19/20

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2007742-01

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Aluminum	6010C	5240	5000	105	80-120
Arsenic	6010C	2610	2500	105	80-120
Calcium	6010C	12800	12500	102	80-120
Cobalt	6010C	1210	1250	97	80-120
Iron	6010C	2580	2500	103	80-120
Lithium	6010C	10600	10000	106	80-120
Manganese	6010C	1220	1250	97	80-120
Molybdenum	6010C	1030	1000	103	80-120

July 20, 2020 Service Request No:K2004421

Anthony Dalton-Atha
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: APC SSE

Dear Anthony,

Enclosed are the results of the sample(s) submitted to our laboratory May 29, 2020
For your reference, these analyses have been assigned our service request number **K2004421.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

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ALS Group USA, Corp.
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Narrative Documents

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Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004421
Date Received: 05/29/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 05/29/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The sample was stored at minimum in accordance with the analytical method requirements.

Metals:

Method 6010C, 06/19/2020: Samples in this delivery group required dilution to non-target matrix components. Attempts to analyze the undiluted samples resulted in failed instrument QC check samples. The detection limits were elevated accordingly. No further corrective action was appropriate.

Approved by _____ Date 06/22/2020

Sample Receipt Information

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www.alsglobal.com

Chain of Custody Record & Laboratory Analysis Request

Date:	5/29/2020
Project Name:	APC SSE
Project Manager:	Anthony Dalton-Atha
email:	adalton-atha@anchorqea.com
Phone Number:	541-760-0851
Shipment Method:	Courier

ANCHOR QEA

Jessica Goin
6720 SW Macadam Ave
Suite 125
Portland OR 97219

Line	Field Sample ID	Collection Date	Collection Time	Matrix	No. of Containers	Arsenic	Lithium	Cobalt	Molybdenum	Iron												Comments/Preservation
1	BY-AP-MW-11_F4_001			Water	1	x		x		x												nitric acid
2	BY-AP-MW-12_F4_002			Water	1	x		x		x												nitric acid
3	BY-AP-MW-13_F4_003			Water	1	x		x		x												nitric acid
4	BY-AP-MW-2_F4_004			Water	1	x		x		x												nitric acid
5	BY-AP-MW-7_F4_005			Water	1	x		x		x												nitric acid
6	BY-AP-MW-9_F4_006			Water	1	x		x		x												nitric acid
7	GC-AP-MW-1_F4_007			Water	1	x	x	x		x												nitric acid
8	GC-AP-MW-11_F4_008			Water	1	x	x	x		x												nitric acid
9	GC-AP-MW-16_F4_009			Water	1	x	x	x		x												nitric acid
10	OLD-MW-11S_F4_010			Water	1	x	x		x	x												nitric acid
11	OLD-MW-11_F4_011			Water	1	x	x		x	x												nitric acid
12	OLD-MW-2D_F4_012			Water	1	x	x		x	x												nitric acid
13	GC-AP-MW-17_F4_013			Water	1	x	x	x		x												nitric acid
14	GN-AP-MW-5_F4_014			Water	1	x	x		x	x												nitric acid
15	GS-AP-MW-6D_F4_015			Water	1	x	x		x	x												nitric acid

Notes: **CAUTION! F4 samples are concentrated (16N) nitric acid.**

Relinquished by:	Company:
Anthony Dalton-Atha	Anchor QEA
Signature/Print Name:	Date/Time:
	5/29/2020 10:00

Received by:	Company:
[illegible]	ALS
Signature/Print Name:	Date/Time:
	5/29/20 1145

Relinquished by:	Company:
Signature/Print Name:	Date/Time:

Received by:	Company:
Signature/Print Name:	Date/Time:

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PC MH

Cooler Receipt and Preservation Form

Client ANCHOR QEA Service Request K20 044221

Received: 5/29/2020 Opened: 5/29/2020 By: CG Unloaded: 5/29/2020 By: CG

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample 1	Sample 2	Sample 3	Sample 4	IR GUN	Cooler / COC ID NA	Tracking Number NA	Filed
—	10.7	12.0	10.6	9.6	IR02			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA Y N

   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
All "F2" samples	1-125mL, each				X	HNO_3	0.5mL	RE1-54-C	CG	1100 6/1/20

Notes, Discrepancies, & Resolutions: Temp okay - metals analyses

Miscellaneous Forms

ALS Environmental—Kelso Laboratory
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Phone (360) 577-7222 Fax (360) 425-9096
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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Sample Results

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004421
Project:	APC SSE	**Date Collected:**	05/28/20 10:00
Sample Matrix:	Water	**Date Received:**	05/29/20 11:45
Sample Name:	GC-AP-MW-17_F4_013	**Basis:**	NA
Lab Code:	K2004421-002		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**17900**	ug/L	210	50	10	06/19/20 16:50	06/09/20	
Cobalt	6010C	**65**	ug/L	11	4	5	06/19/20 11:30	06/09/20	
Iron	6010C	**914000**	ug/L	110	40	5	06/19/20 11:30	06/09/20	
Lithium	6010C	ND U	ug/L	110	30	5	06/19/20 11:30	06/09/20	

QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004421
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ2007746-02		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	ND	U	ug/L	21	5	1	06/19/20 16:24	06/09/20	
Cobalt	6010C	ND	U	ug/L	2.1	0.7	1	06/19/20 16:24	06/09/20	
Iron	6010C	ND	U	ug/L	42	8	1	06/19/20 16:24	06/09/20	
Lithium	6010C	ND	U	ug/L	21	6	1	06/19/20 16:24	06/09/20	
Molybdenum	6010C	ND	U	ug/L	8.4	2.1	1	06/19/20 16:24	06/09/20	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004421
Project:	APC SSE	**Date Collected:**	05/28/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/19/20
		Date Extracted:	06/9/20

Matrix Spike Summary
Total Metals

Sample Name:	OLD-MW-2D_F4_012	**Units:**	ug/L
Lab Code:	K2004421-001	**Basis:**	NA
Analysis Method:	6010C		
Prep Method:	EPA CLP ILM04.0		

Matrix Spike
KQ2007746-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	ND U	960	1000	96	75-125
Cobalt	74	513	500	88	75-125
Iron	1050000	1020000	1000	-2168 #	75-125
Lithium	ND U	9900	10000	99	75-125
Molybdenum	ND U	952	1000	95	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004421
Project	APC SSE	**Date Collected:**	05/28/20
Sample Matrix:	Water	**Date Received:**	05/29/20
		Date Analyzed:	06/19/20

Replicate Sample Summary
Total Metals

Sample Name:	OLD-MW-2D_F4_012	**Units:**	ug/L
Lab Code:	K2004421-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample KQ2007746-03 Result	Average	RPD	RPD Limit
Arsenic	6010C	210	50	ND U	ND U	ND	-	20
Cobalt	6010C	11	4	74	76	75	3	20
Iron	6010C	110	40	1050000	1050000	1050000	<1	20
Lithium	6010C	110	30	ND U	ND U	ND	-	20
Molybdenum	6010C	84	21	ND U	ND U	ND	-	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Water

Service Request: K2004421
Date Analyzed: 06/19/20

Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

Lab Control Sample
KQ2007746-01

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	2540	2500	102	80-120
Cobalt	6010C	1190	1250	95	80-120
Iron	6010C	2340	2500	93	80-120
Lithium	6010C	9940	10000	99	80-120
Molybdenum	6010C	1010	1000	101	80-120

July 21, 2020 Service Request No:K2004639

Anthony Dalton-Atha
Anchor QEA, LLC
6720 SW Macadam Avenue
Suite 125
Portland, OR 97219

Laboratory Results for: APC SSE

Dear Anthony,

Enclosed are the results of the sample(s) submitted to our laboratory June 04, 2020
For your reference, these analyses have been assigned our service request number **K2004639.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

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www.alsglobal.com

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Client: Anchor QEA, LLC
Project: APC SSE
Sample Matrix: Soil

Service Request: K2004639
Date Received: 06/04/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty three soil samples were received for analysis at ALS Environmental on 06/04/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by _____ Date 07/21/2020

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Chain of Custody Record & Laboratory Analysis Request

Date:	5/29/2020
Project Name:	APC SSE
Project Manager:	Anthony Dalton-Atha
email:	adalton-atha@anchorqea.com
Phone Number:	541-760-0851
Shipment Method:	Courier

ANCHOR QEA

Jessica Goin
6720 SW Macadam Ave
Suite 125
Portland OR 97219

Line	Field Sample ID	Collection Date	Collection Time	Matrix	No. of Containers	Arsenic	Lithium	Cobalt	Molybdenum	Comments/Preservation
1	BY-AP-MW-11_F5_001			SED	1					
2	BY-AP-MW-12_F5_002			SED	1					
3	BY-AP-MW-13_F5_003			SED	1					
4	BY-AP-MW-2_F5_004			SED	1					
5	BY-AP-MW-7_F5_005			SED	1					
6	BY-AP-MW-9_F5_006			SED	1					
7	GC-AP-MW-1_F5_007			SED	1					
8	GC-AP-MW-11_F5_008			SED	1					
9	GC-AP-MW-16_F5_009			SED	1					
10	OLD-MW-11S_F5_010			SED	1					
11	OLD-MW-11_F5_011			SED	1					
12	OLD-MW-2D_F5_012			SED	1					
13	GC-AP-MW-17_F5_013			SED	1					
14	GN-AP-MW-5_F5_014			SED	1					
15	GS-AP-MW-6D_F5_015			SED	1					nitric acid

Notes:

Relinquished by:	Company:	Received by:	Company:
Anthony Dalton-Atha	Anchor QEA		ALS 6/4/20 1420
Signature/Print Name:	Date/Time: ~~5/29/2020 10:00~~ 6/4/2020 PAN	Signature/Print Name:	Date/Time:
Relinquished by:	Company:	Received by:	Company:
Signature/Print Name:	Date/Time:	Signature/Print Name:	Date/Time:

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page_____of_____

K2004639

Chain of Custody Record & Laboratory Analysis Request

Date:	5/29/2020
Project Name:	APC SSE
Project Manager:	Anthony Dalton-Atha
email:	adalton-atha@anchorqea.com
Phone Number:	541-760-0851
Shipment Method:	Courier

ANCHOR QEA

Jessica Goin
6720 SW Macadam Ave
Suite 125
Portland OR 97219

Line	Field Sample ID	Collection Date	Collection Time	Matrix	No. of Containers	Arsenic	Lithium	Cobalt	Molybdenum	Comments/Preservation
16	GS-AP-MW-8_F5_016			SED	1					
17	MR-AP-MW-3D_F5_017			SED	1					
18	MR-AP-MW-4_F5_018			SED	1					
19	MR-AP-MW-5_F5_019			SED	1					
20	MW-1_F5_020			SED	1					
21	MW-12_F5_021			SED	1					
22	Blank_F5_022			SED	1					
23	OLD-MW-2D-F5_012_DUP			SED	1					

Notes:

Relinquished by:	Company:	Received by:	Company:
Anthony Dalton-Atha	Anchor QEA	[signature]	ACS 6/4/20 1420
Signature/Print Name:	Date/Time: 6/4/2020 ~~5/29/2020~~ 10:00	Signature/Print Name:	Date/Time:
Relinquished by:	Company:	Received by:	Company:
Signature/Print Name:	Date/Time:	Signature/Print Name:	Date/Time:

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Page_____of_____

PC MH

Cooler Receipt and Preservation Form

Client Anchor QEA Service Request *K20* 04639

Received: 6/4/20 Opened: 6/4/20 By: KN Unloaded: 6/4/20 By: KN

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample 1	Sample 2	Sample 3	Sample 4	IR GUN	Cooler / COC ID NA	Tracking Number NA	Filed
N/A	15.5	17.9	13.2	17.0	TR02			

4. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* Blue ice
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA Y N

   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
12. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions:

Miscellaneous Forms

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Sample Results

ALS Environmental—Kelso Laboratory
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Metals

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004639
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	06/04/20 14:20
Sample Name:	GC-AP-MW-1_F5_007	**Basis:**	As Received
Lab Code:	K2004639-007		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**286**	mg/Kg	8.4	2.1	2	06/18/20 16:25	06/15/20	
Cobalt	6010C	**11.3**	mg/Kg	0.84	0.10	2	06/18/20 16:25	06/15/20	
Lithium	6010C	**2.5**	mg/Kg	4.2	0.6	2	06/18/20 16:25	06/15/20	J
Molybdenum	6010C	**8.03**	mg/Kg	0.84	0.21	2	06/18/20 16:25	06/15/20	

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004639
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	06/04/20 14:20
Sample Name:	GC-AP-MW-11_F5_008	**Basis:**	As Received
Lab Code:	K2004639-008		

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**59**	mg/Kg	12	3	2	06/18/20 16:28	06/15/20	
Cobalt	6010C	**3.9**	mg/Kg	1.2	0.2	2	06/18/20 16:28	06/15/20	
Lithium	6010C	**8.9**	mg/Kg	6.0	0.9	2	06/18/20 16:28	06/15/20	
Molybdenum	6010C	**54.5**	mg/Kg	1.2	0.3	2	06/18/20 16:28	06/15/20	

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004639
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	06/04/20 14:20
Sample Name:	GC-AP-MW-16_F5_009	**Basis:**	As Received
Lab Code:	K2004639-009		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**5030**		mg/Kg	60	15	2	06/18/20 16:30	06/15/20	
Cobalt	6010C	**10.8**		mg/Kg	6.0	0.8	2	06/18/20 16:30	06/15/20	
Lithium	6010C	ND	U	mg/Kg	30	5	2	06/18/20 16:30	06/15/20	
Molybdenum	6010C	**5.1**	**J**	mg/Kg	6.0	1.5	2	06/18/20 16:30	06/15/20	

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004639
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	06/04/20 14:20
Sample Name:	GC-AP-MW-17_F5_013	**Basis:**	As Received
Lab Code:	K2004639-013		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	**13**	**J**	mg/Kg	16	4	2	06/18/20 16:40	06/15/20	
Cobalt	6010C	**1.0**	**J**	mg/Kg	1.6	0.2	2	06/18/20 16:40	06/15/20	
Lithium	6010C	**1.7**	**J**	mg/Kg	8.0	1.2	2	06/18/20 16:40	06/15/20	
Molybdenum	6010C	**2.0**		mg/Kg	1.6	0.4	2	06/18/20 16:40	06/15/20	

QC Summary Forms

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004639
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	As Received
Lab Code:	KQ2007817-01		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	ND	U	mg/Kg	8.0	2.0	2	06/18/20 15:50	06/15/20	
Cobalt	6010C	ND	U	mg/Kg	0.80	0.10	2	06/18/20 15:50	06/15/20	
Lithium	6010C	ND	U	mg/Kg	4.0	0.6	2	06/18/20 15:50	06/15/20	
Molybdenum	6010C	ND	U	mg/Kg	0.80	0.20	2	06/18/20 15:50	06/15/20	

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004639
Project:	APC SSE	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	As Received
Lab Code:	KQ2007818-01		

Total Metals

Analyte Name	Analysis Method	Result		Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6010C	ND	U	mg/Kg	8.0	2.0	2	06/18/20 17:08	06/15/20	
Cobalt	6010C	ND	U	mg/Kg	0.80	0.10	2	06/18/20 17:08	06/15/20	
Lithium	6010C	ND	U	mg/Kg	4.0	0.6	2	06/18/20 17:08	06/15/20	
Molybdenum	6010C	ND	U	mg/Kg	0.80	0.20	2	06/18/20 17:08	06/15/20	

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004639
Project:	APC SSE	**Date Analyzed:**	06/18/20
Sample Matrix:	Soil		

Lab Control Sample Summary
Total Metals

Units:mg/Kg
Basis: As Received

Lab Control Sample
KQ2007817-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	97.3	100	97	80-120
Cobalt	6010C	96.0	100	96	80-120
Lithium	6010C	490	500	98	80-120
Molybdenum	6010C	101	100	101	80-120

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2004639
Project:	APC SSE	**Date Analyzed:**	06/18/20
Sample Matrix:	Soil		

Lab Control Sample Summary
Total Metals

Units:mg/Kg
Basis: As Received

Lab Control Sample
KQ2007818-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6010C	94.5	100	95	80-120
Cobalt	6010C	93.6	100	94	80-120
Lithium	6010C	477	500	95	80-120
Molybdenum	6010C	98.1	100	98	80-120